





Why Polar Bear?

Polar bears have white, thick fur that protects them from cold since they live in vast areas covered by glaciers. In fact, they have black skin which covered with transparent hairs. The transparent hairs function as fiber optic conductors. The hairs collect ultra-violet light and direct it to the black skin where it is converted into heat. Which means energy saving by heat insulation. Given these facts , we believed a logo design with a "Polar Bear" is the best visual language which describes the perfect harmony of nature and technology for our brand "Fiberli".



About us

Our company, PSL Elektronik, which is the first Turkish company that applies Fiber Optic lighting systems in Turkey as a manufacturer, was established in Antalya 1991. Our company, which concentrated on "Professional Audio and Light" systems at the outset, pursued studies on decorative Fiber Optic lighting applications in 1997 and accomplished applications which are highly successful and each of which is a first and trendsetter in its field.

The achieved succesful projects have derived our company to concentrate in the filed of decorative architectural lighting and our company, gradually pulling away from the field of " audio and light" systems, completely steered towards the field of lighting by creating the "FIBERLI" brand in 2000s.

The pioneer works and projects that were conducted during this period, and the technological developments in the LED sector, put forth the first signs that a "LED revolution in Lighting" would occur. Our company,which foresaw this development and progress, made the decision to completely take part in the "LED Lighting" field as a manufacturer in the 2000s and began to make all of its investments in this direction. Within this framework, we began to domestically manufacture our first LED lighting products and supply to our customers in 2002.

We, from the outset, designated our manufacture philosophy on the basis of domestic manufacturing, high quality, customer oriented, respect, and affection towards humans, environments and nature. Our company, which has never made concessions to these principles, has achieved to become one of the frontrunner and leading organisations in the field in our region in a short span of time.

In 2017, for the purpose of providing a service a with much higher capacity, pace and quality, we completed our new factory investment, established on a 20.000 m2 area within the Antalya Organized Industrial Zone and commenced manufacturing. Our company, which has accomplished more than 800 large scaled projects up untill now, at present;

- Has nearly 300 hundred employees
- Sales and service units located in numerous countries
- Carries out projects and applications customly designed for individuals or business-es,
- Research and Development team with 29 employees
- Design unit with a team of experts in lighting field.
- Together with the branches and countless representatives in İstanbul, Antalya, Ankara, İzmir Moscow, Dubai and Ashgabat, we are working to provide you perfect service and products.

We would like to take this opportunity and once again thank you, our esteemed customers, who have guided us to the present day and never refrained their support.



Purpose of the product

Table of product selection for ordering

QR Code

IP & Light Output Symbols

LED Projectors

WLMS

Product Image

Technical drawing of the product

Pictograms of areas where the product can be applied

Electromechanical specs
of the product

- Configuration codes of the product

Symbols and certificates
belong to the product

Product options



- Min. 20 micron anodized aluminum extruded profile
- Anodized aluminum extruded fixture stand
- Polycarbonate luminaire glass
- PVC side covers with UV protection
- High efficiency group lens

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Length (L) (mm)	Weight (kg)
WLMS1	WW-NW-CW	24V DC	8	820	300	0.30
WLMS2	WW-NW-CW	24V DC	16	1,640	600	0.50
WLMS3	WW-NW-CW	24V DC	24	2,460	900	0.80
WLMS4	WW-NW-CW	24V DC	36	3,280	1200	1.10
WLMS50-DMX	RGB	24V DC	9	-	500	0.40
WLMS100-DMX	RGB	24V DC	17	-	1000	0.80

*Power and Lumen values provided are based off of a "cold white (CW) LED".

C Light Color Options

● WW: Warm White	3000K	● R: Red	625nm
● NW: Natural White	4000K	● G: Green	525nm
● CW: Cold White	6500K	● B: Blue	465nm
● RGB		● A: Amber	590nm

Color alternatives are not available with DOB option.

0 Lens Options



XN: Extra Narrow Elliptical Angle	N: Narrow Elliptical Angle	M: Medium Elliptical Angle	W: Wide Angle
--	----------------------------------	----------------------------------	------------------

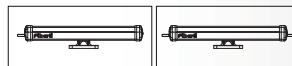
WLMS-DMX lens options can be change

J Junction Options



01: Cable	02: IP Socket
-----------	---------------

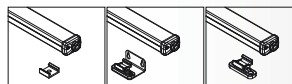
K Cable Direction Options*



01: Single entry	03: Dual entry and exit
------------------	-------------------------

* The max. junction qty may vary for the products with both entry and exit

M Mounting Options



25: Surface Mounting	27: Wall Mounting	28: Floor Installation
----------------------	-------------------	------------------------



Order Code

P . W . C . O . J . K . M

Please contact our sales representatives for special application requests other than the standard product.



Color and control
compatibility chart

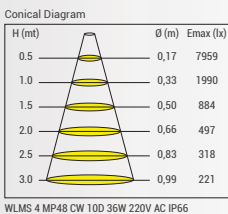
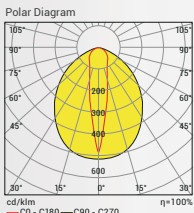
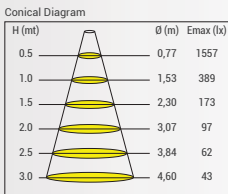
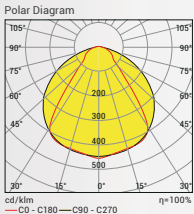
Product version
control system and cable chart

Product's photometric
test data

LED Projectors

WLMS

Product Diagrams



Control System Options

Color Type	PWM	INV PWM	DMX	DALI *	0-10V DC	TRIAC
WW-NW-CW	•			•	•	
R,G,B,A	•			•	•	
RGB	•					
RGBA/W	•					
RGB DMX			•			
WHITE DMX						

*Only for 24V DC

Product Code	Voltage (V DC)	Control Systems	Cores of Cables Count		
			Mono	RGB	RGB W/A
WLMS 109	24	PWM	2x	4x	-
WLMS 218	24	PWM	2x	4x	-
WLMS 327	24	PWM	2x	4x	-
WLMS 436	24	PWM	2x	4x	-

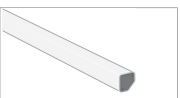
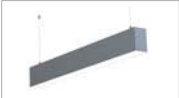


Istek College, Antalya

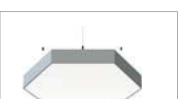
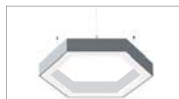
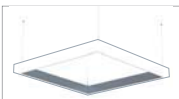
Reference photo of the product

Project photo where
the product applied

12 LEDLine - Linear Illumination Products

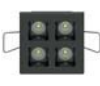
						
LLS 14	LLK 16	LLKE 18	LLKP 20	LLFS8 22	LLKS 24	LLCRN 26
						
LLU 28	LLI 30	LLIH 32	LLW2 34	LLB33 36	ERL100 38	ERL75 40
						
ERL50 42	ERL35 44	ERL25 46	LLG 48	EPL75 50	EPL50 52	EPL35 54
						
LLA 56	LLET 58	LLEN PRO 60	LLEN TECO 62	LLST 63	LLTMS 64	LLAT 66
						
LLUT 68	LLMS 70	LLGEN 72				

74 DecoPendant - Decorative Luminaires

						
BLZ 76	BLZ Hex 78	BLZ Tria 79	BLZS 80	BLZ Puzzle 82	DRM 84	DRM Hex 86
						
DRM Tria 87	DRMG 88	DRMS 90	YZKd 92	YZKd Hex 94	YZKd Tria 95	YZKi 96
						
YZKi Hex 98	YZKi Tria 99	QDR 100	QDRd 102	QDRi 103	QDR² 104	LLT15 106
						
LLT8 107	Beehive 108					

Contents

110 CromaDown - Downlight Luminaires

						
CDAW 112	CDEW 114	CD69 116	CD72 118	CDFS 120	CDS1 122	CDRS 123
						
CDSS 125	CDP1 126	CDP3 128	CDP5 130	QR111A 132	CD500 134	CDC1 136
						
CD1 138	CDLG2x2 140	CDLG1x4 142	CDMS 144	CDSB80 145	CDRB80 146	CDRB150 147
						
CDRB175 149	CDRB300 151	YOUSMA 50 153	YOUSMA 85 155	YOUSMA 110 157	YOUSMA DALI 159	YOUSMA ECO 161
						
PNLC 162	PNLL 164	PNLS 166				

168 WallWasher - LED Projectors

						
WL 170	WLT 174	WLTC 176	WLG2 178	WLM 180	WLMS 182	WS 184
						
WSSM 186	WH 188	WH ECO 190	WH9 192	WH9 TECO 194	WH16 195	WH16 TECO 197
						
WH Ex 198	iz 200					

202 CromaStreet - Street Lighting

 AYDAN9 204	 AYDAN16 206	 AYFER4 208	 AYFER9 210	 SWH9 212	 SWH16 214	 SWH Eco 216
 KITE 218	 SWH9 SOLAR 220	 ARC SINGLE 222	 ARC DOUBLE 223	 ARC TRIPLE 224	 ARC SPIRAL 225	 ARC CIRCO 226
 SSA100 228	 SSA150 230	 SCG5 232	 SRB 234	 SWS 236		

238 CromaFloor - Floor Lighting

 CF500 240	 CF1 242	 CF3 244	 CF5 246	 CF1Y 248	 CF5Y 250
 CFL 252	 CFU23 254	 CFU33 256	 CFU100 258		

260 AquaCroma - Pool Lighting

 AC500F 262	 AC500N 264	 AC1F 266	 AC3F 268	 AC5F 270	 AC1N 272	 AC3N 274
 AC5N 276	 AC1J 280	 AC5G 282	 AC5GE 284	 AC5K 286	 AC5Y 288	

Contents

290 Cromagardena - Garden Lighting

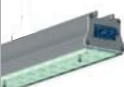
		
CG1 292	CG3 294	CG5 296

298 CromaBollard - Decorative Garden Lighting

					
CBC100 300	CBC150 301	CBW 302	CBT 304	BOLLARD L 305	BOLLARD V 306

		
BOLLARD BALANCE 307	BOLLARD TOWER 308	BOLLARD EAGLE S 309

310 HighBay - HighBay & LowBay Lighting

					
HBRR 312	AY380 314	HBWS 316	HBMH 318	LLMRA 320	WH TWIN 322

324 Military Marine – Marine & Military Lighting

						
MM111A 326	LLET-M 328	PNLC-M 330	PNLL-M 331	PNLS-M 332	WH-M 334	WS-M 336

338 RDMX – RDM/DMX & Animation Lighting

					
LL RDMX 340	WL RDMX 342	WLT RDMX 346	WS RDMX 348	CFL RDMX 350	DOT RDMX 352

354 LEDCell – LED Cell Products

		
CED 356	CEP 357	LCP 360

364 FiberOptic – Fiber Optic Products

			
IK7 366	IK77 367	IK777 368	FOK 370

Contents

374 Electronic - Electronic & Control Systems

						
R Type 376	M1J Type 376	M2 Type 376	M2J Type 376	D Type 376	L Type 376	UK Type 376
						
DE Type 377	Wi-fi 377	Madrix 386				

388 General and Technical Information

408 Catalog Dictionary

Contact

• This catalog and its contents belong to PSL ELECTRONIC A.Ş. All materials such as images, industrial designs, texts, etc. used in the catalog may not be used without written permission.

• PSL ELECTRONIC A.Ş. reserves the right to make changes to the products described in the catalogue, any time without prior notice.

• Specifications of the LEDs, lumens, power, light color etc. stated in the catalogue are the declaration of the manufacturer companies and do not constitute binding for our company.



Linear Luminaires

LL

DP

CD

WW

CS

CF

AC

CG

CB

HB

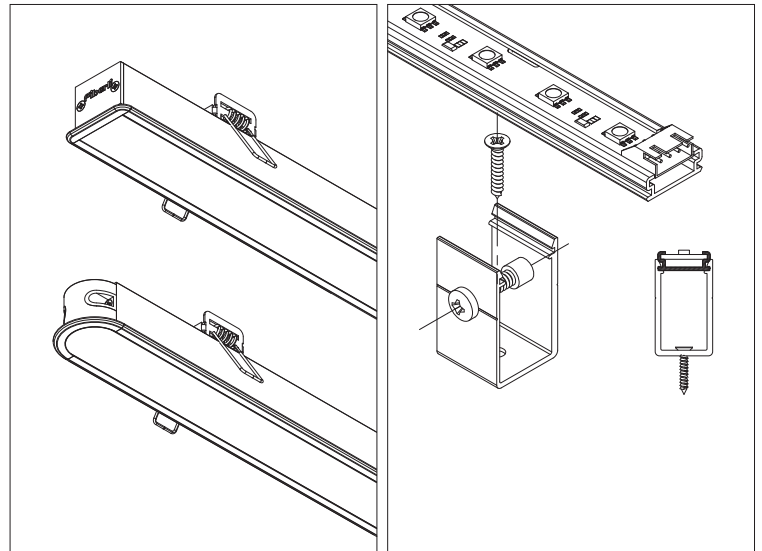
MM

RDMX

LC

FO

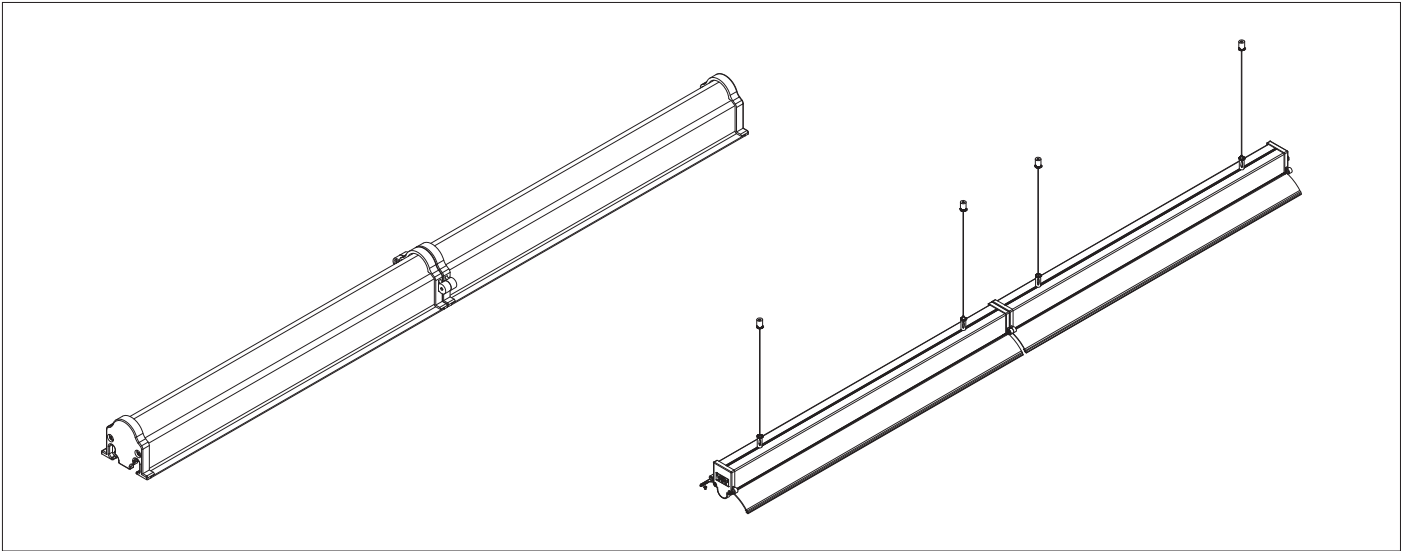
EL



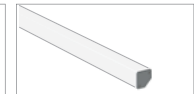
LEDLine

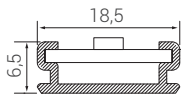
Luminaires provide ideal lighting solutions for indoor and outdoor settings. These products can be used at any desired length by attaching them end-to-end without connections being visible. Luminaires can be produced as RGB or mono colour, as per order. They can be modified for outdoor use through production in IP65 standards with a polymer coating. Using the world's most efficient LEDs, our luminaires are extremely economical due to low energy consumption and long lifetime. Moreover, with their wide range of colour options and color changing features, the products provide architects and lighting designers the opportunity to bring their creative ideas to life.

Linear Luminaires



LEDLine - Linear Illumination Products

						
LLS	LLK	LLKE	LLKP	LLFS8	LLKS	LLCRN
						
LLU	LLI	LLIH	LLW2	LLB33	ERL100	ERL75
						
ERL50	ERL35	ERL25	LLG	EPL75	EPL50	EPL35
						
LLA	LLET	LLEN PRO	LLEN TECO	LLTMS	LLAT	LLUT
						
LLMS	LLGEN	LLST				



- Min. 20 micron anodized aluminum extruded profile
- Stainless connectors
- Cooling capacity up to 14,4 W/m
- Suitable for surface mounting

P W Product & Power Options

Product Name/LED Quantity	Light Color	Input Voltage (V)	Power (W/mt)	Luminous Flux (lm)	Weight (kg)
LLS15LED	WW-NW-CW	24V DC	6	675	0,12
LLS30LED	WW-NW-CW	24V DC	2,4	240	0,12
LLS30LED	WW-NW-CW	24V DC	7,2	720	0,12
LLS30LED	WW-NW-CW	24V DC	12	1.350	0,12
LLS45LED	WW-NW-CW	24V DC	10,8	1.080	0,12
LLS60LED	WW-NW-CW	24V DC	4,8	480	0,12
LLS60LED	WW-NW-CW	24V DC	14,4	1.440	0,12
LLS90LED	WW-NW-CW	24V DC	7,2	720	0,12
LLS120LED	WW-NW-CW	24V DC	9,6	960	0,12
LLS180LED	WW-NW-CW	24V DC	14,4	1.450	0,12
LLS30LED	RGB	24V DC	7,2	-	0,12
LLS45LED	RGB	24V DC	10,8	-	0,12
LLS60LED	RGB	24V DC	14,4	-	0,12
LLS60LED	RGB/W	24V DC	14,4	-	0,12

*Power and Lumen values provided are based off of a lensless product with cold white (CW) LED.

C Light Color Options

● WW: Warm White	3000K	● R: Red	625nm	● RGB
● NW: Natural White	4000K	● G: Green	525nm	● RGBW
● CW: Cold White	6500K	● B: Blue	465nm	● RGBA
		● A: Amber	590nm	

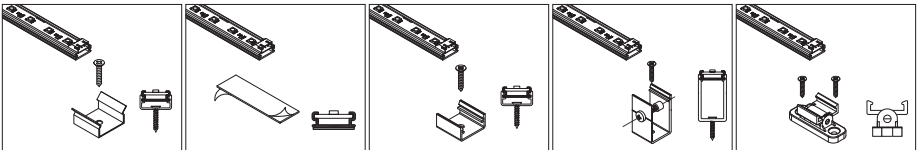
*Different colors are optional

J Junction Options



01: Cable 03: Horizontal Socket 04: Vertical Socket

M Mounting Options



01: Steel Clip 02: Double-Sided Tape 03: Aluminum Clip 04: Aluminum Clip (tall) 05: Angled Clip



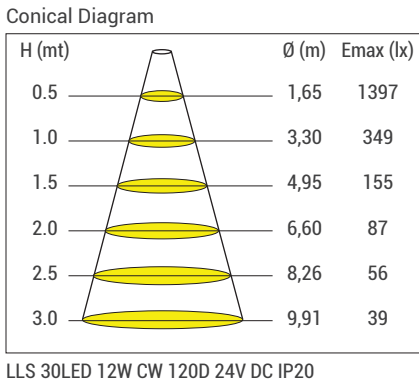
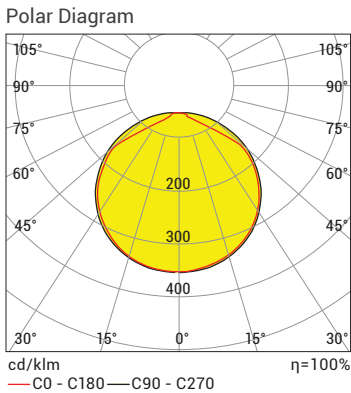
Order Code

P . W . C . J . M



Please contact our sales representatives for special application requests other than the standard product.

Product Diagrams

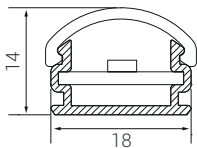
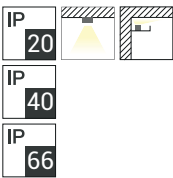


Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW- NW- CW	•			•	•	
R,G,B,A	•			•	•	
RGB	•					
RGBA/W	•					
RGB DMX						
WHITE DMX						



Mary Palace Hotel, Antalya



- Min. 20 micron anodized aluminum extruded profile.
- Stainless connectors
- PVC end caps with UV protection
- Transparent or diffused polycarbonate top cover with UV protection.
- Cooling capacity up to 21,6 W/m
- Suitable for surface mounting

P W Product & Power Options

Product Name/LED Quantity	Light Color	Input Voltage (V)	Power (W/mt)	Luminous Flux (lm)	Weight (kg)
LLK30LED	WW-NW-CW	24V DC	2,4	240	0,30
LLK30LED	WW-NW-CW	24V DC	12	1.350	0,30
LLK45LED	WW-NW-CW	24V DC	18	2.025	0,30
LLK60LED	WW-NW-CW	24V DC	4,8	480	0,30
LLK60LED	WW-NW-CW	24V DC	7,2	720	0,30
LLK60LED	WW-NW-CW	24V DC	14,4	1.440	0,30
LLK90LED	WW-NW-CW	24V DC	7,2	720	0,30
LLK90LED	WW-NW-CW	24V DC	10,8	1.100	0,30
LLK120LED	WW-NW-CW	24V DC	9,6	960	0,30
LLK180LED	WW-NW-CW	24V DC	14,4	1.450	0,30
LLK30LED	RGB	24V DC	7,2	-	0,30
LLK45LED	RGB	24V DC	10,8	-	0,30
LLK60LED	RGB	24V DC	14,4	-	0,30
LLK90LED	RGB	24V DC	21,6	-	0,30
LLK60LED	RGB/W	24V DC	14,4	-	0,30

*Power and Lumen values provided are based off of a coverless product with cold white (CW) LED.
** The same power values for white colors are applicable for R,G,B,A as well.

C Light Color Options

● WW: Warm White 3000K	● R: Red 625nm	● RGB
● NW: Natural White 4000K	● G: Green 525nm	● RGBW
● CW: Cold White 6500K	● B: Blue 465nm	● RGBW
	● A: Amber 590nm	● RGBA

*Different colors are optional

J Junction Options

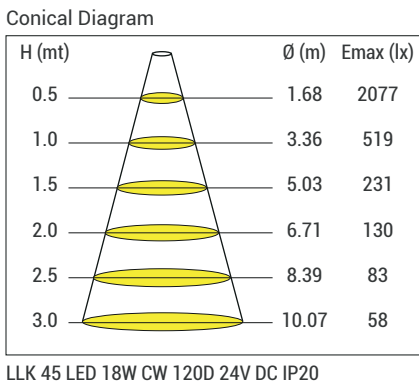
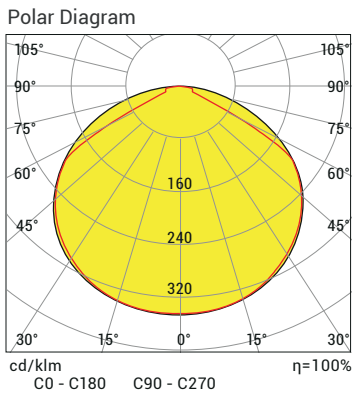


Order Code

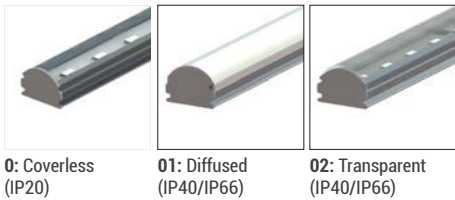
P . W . C . J . U . I . M



Product Diagrams



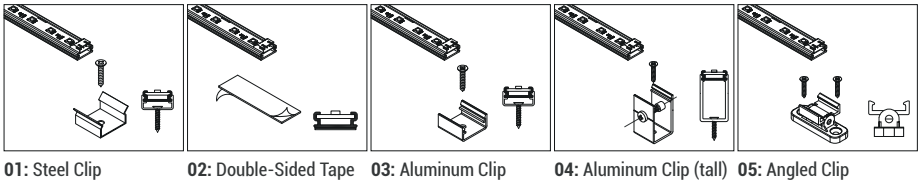
U Upper Cover Options



I IP Protection Class



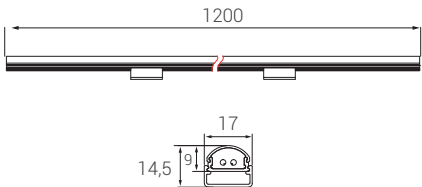
M Mounting Options



Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW	•			•	•	
R,G,B,A	•			•	•	
RGB	•					
RGBA/W	•					
RGB DMX						
WHITE DMX						





- Min. 20 micron anodized aluminum extruded profile
- PVC end caps with UV protection
- Diffused polycarbonate top cover with UV protection
- Cooling capacity up to 7,2W/m
- Suitable for surface mounting
- Only produced as 120 cm

P W Product & Power Options

Product Name/LED Quantity	Light Color	Input Voltage (V)	Power (W/mt)	Luminous Flux (lm)	Weight (kg)
LLK ECO120	WW-NW-CW	24V DC	8,6	970	0,15

*Power and Lumen values provided are based off of a coverless product with cold white (CW) LED.

C Light Color Options

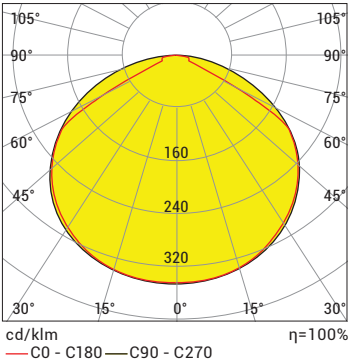
WW: Warm White	3000K
NW: Natural White	4000K
CW: Cold White	6500K

Control System Options

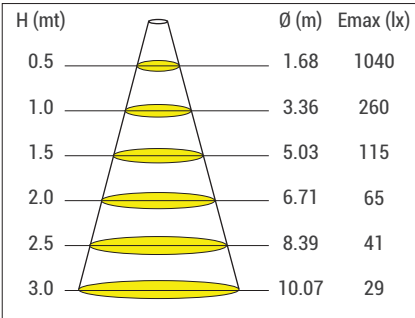
Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW	•			•	•	
R,G,B,A						
RGB						
RGBA/W						
RGB DMX						
WHITE DMX						

Product Diagrams

Polar Diagram



Conical Diagram



LLKE120 8,6W CW 120D 24V DC IP20

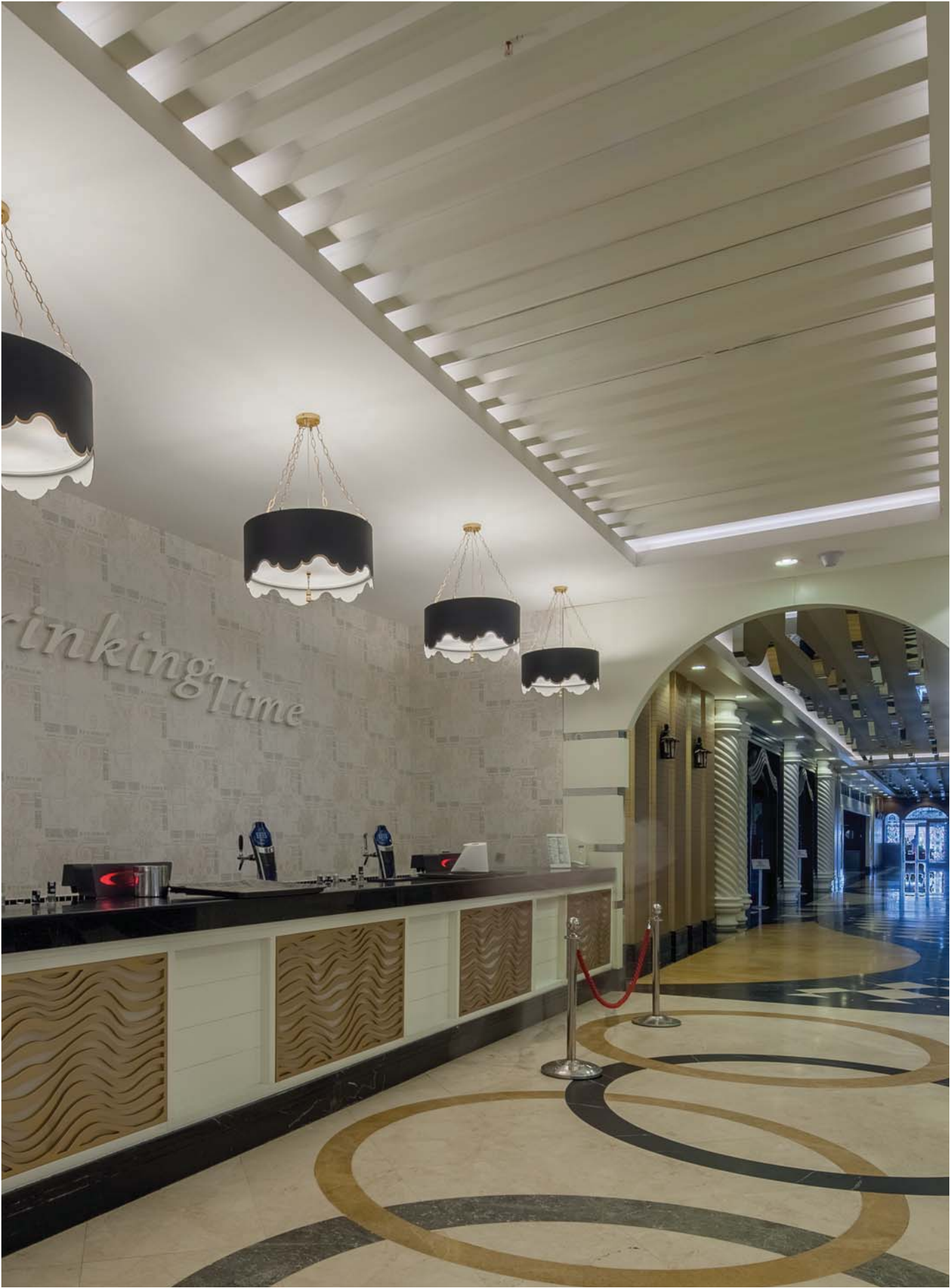


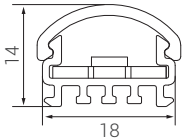
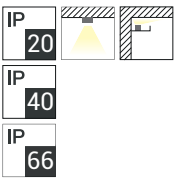
Order Code

P . W . C



LEDLine





- Min. 20 micron anodized aluminum extruded profile.
- Stainless connectors.
- PVC end caps with UV protection.
- Transparent or diffused polycarbonate top cover with UV protection
- Cooling capacity up to 36 W/m
- Suitable for surface mounting

P W Product & Power Options

Product Name/LED Quantity	Light Color	Input Voltage (V)	Power (W/mt)	Luminous Flux (lm)	Weight (kg)
LLKP60LED	WW-NW-CW	24V DC	24	2.700	0,30
LLKP90LED	WW-NW-CW	24V DC	36	4.050	0,30

*Power and Lumen values provided are based off of a coverless product with cold white (CW) LED.

C Light Color Options

WW: Warm White	3000K	R: Red	625nm
NW: Natural White	4000K	G: Green	525nm
CW: Cold White	6500K	B: Blue	465nm
		A: Amber	590nm

*Different colors are optional

J Junction Options



01: Cable (side output) 02: IP Socket (side output)

U Upper Cover Options

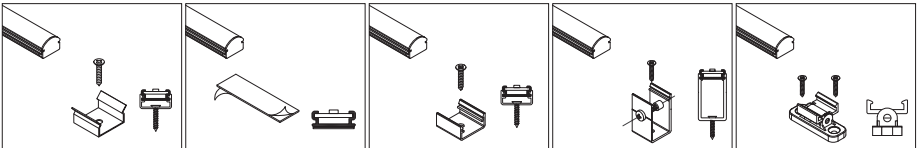


01: Diffused (IP40/IP66) 02: Transparent (IP40/IP66)

I IP Protection Class



M Mounting Options



01: Steel Clip 02: Double-Sided Tape 03: Aluminum Clip 04: Aluminum Clip (tall) 05: Angled Clip

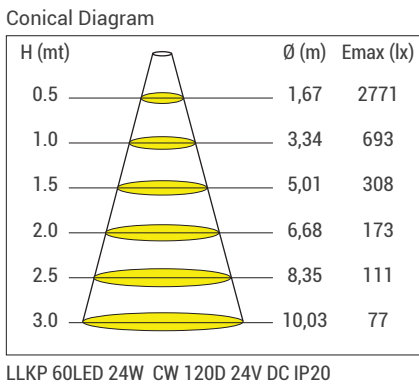
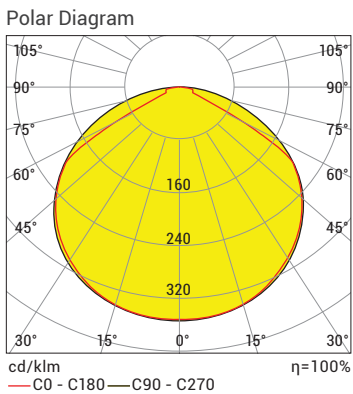


Order Code

P . W . C . J . U . I . M



Product Diagrams

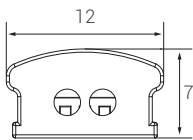
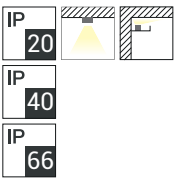


Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW	●			●	●	
R,G,B,A	●			●	●	
RGB	●●●					
RGBA/W	●●●●					
RGB DMX	●●●					
WHITE DMX	●					



Mark Antalya Shopping Center, Antalya



- Min. 20 micron anodized aluminum extruded profile.
- Stainless connectors
- PVC end caps with UV protection
- Transparent or diffused polycarbonate top cover with UV protection
- Cooling capacity up to 14,4 W/m
- Suitable for surface mounting

P W Product & Power Options

Product Name/LED Quantity	Light Color	Input Voltage (V)	Power (W/mt)	Luminous Flux (lm)	Weight (kg)
LLFS860LED	WW-NW-CW	24V DC	4,8	480	0,10
LLFS860LED	WW-NW-CW	24V DC	7,2	720	0,10
LLFS860LED**	WW-NW-CW	24V DC	14,4	1.440	0,10

*Power and Lumen values provided are based off of a coverless product with cold white (CW) LED .
** Only WW-NW-CW available.

C Light Color Options

WW: Warm White	3000K	R: Red	625nm
NW: Natural White	4000K	G: Green	525nm
CW: Cold White	6500K	B: Blue	465nm
		A: Amber	590nm

*Different colors are optional

J Junction Options



01: Cable (side output) 02: IP Socket (side output)

U Upper Cover Options



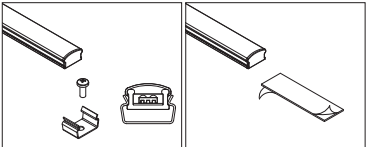
0: Coverless (IP20) 01: Diffused (IP40) 02: Transparent (IP40)

*IP66 is produced in maximum 120cm length.
**IP66 is produced only without a cover.

I IP Protection Class



M Mounting Options



01: Steel Clip 02: Double-Sided Tape



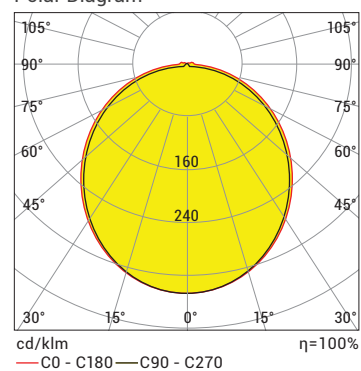
Order Code

P . W . C . J . U . I . M



Product Diagrams

Polar Diagram



Conical Diagram

H (mt)		Ø (m)	E _{max} (lx)
0.5		1,51	1335
1.0		3,01	334
1.5		4,52	148
2.0		6,02	83
2.5		7,53	53
3.0		9,03	37

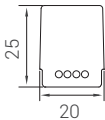
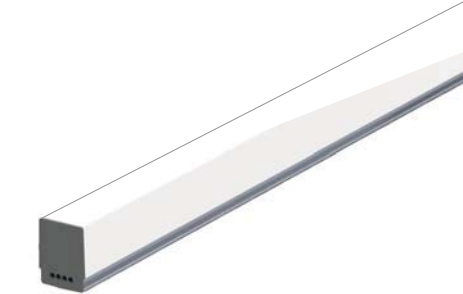
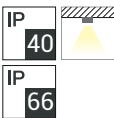
LLFS8 60 LED 14,4W CW 120D 24V DC IP40

Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW 						
R,G,B,A 						
RGB 						
RGBA/W 						
RGB DMX 						
WHITE DMX 						



Riviera Mall, Russia



- Min. 20 micron anodized aluminum extruded profile.
- Stainless connectors
- PVC end caps with UV protection
- Transparent or diffused polycarbonate top cover with UV protection.
- Cooling capacity up to 21,6 W/m
- Suitable for surface mounting

P W Product & Power Options

Product Name/LED Quantity	Light Color	Input Voltage (V)	Power (W/mt)	Luminous Flux (lm)	Weight (kg)
LLKS 45LED	WW-NW-CW	24V DC	10,8	785	0,3
LLKS 45LED	WW-NW-CW	24V DC	18	1.185	0,3
LLKS 60LED	WW-NW-CW	24V DC	4,8	420	0,3
LLKS 60LED	WW-NW-CW	24V DC	14,4	1.250	0,3
LLKS 90LED	WW-NW-CW	24V DC	7,2	620	0,3
LLKS 180LED	WW-NW-CW	24V DC	14,4	1.020	0,3
LLKS 45LED	RGB	24V DC	10,8	-	0,3
LLKS 60LED	RGB	24V DC	14,4	-	0,3
LLKS 90LED	RGB	24V DC	21,6	-	0,3
LLKS 60LED	RGB/W	24V DC	14,4	-	0,3
LLKS 30LED-DMX	RGB-Pixel	24V DC	8,4	-	0,3
LLKS 45LED-DMX	RGB-Pixel	24V DC	12,6	-	0,3

*Power and Lumen values provided are based off of a "cold white (CW) LED".

C Light Color Options

● WW: Warm White 3000K	● R: Red 625nm	● RGB
● NW: Natural White 4000K	● G: Green 525nm	● RGBW
● CW: Cold White 6500K	● B: Blue 465nm	● RGBW
	● A: Amber 590nm	● RGBA

*Different colors are optional

J Junction Options



01: Cable (side outlet) 02: IP Socket (side outlet)

*IP66 products are socket only

I IP Protection Class



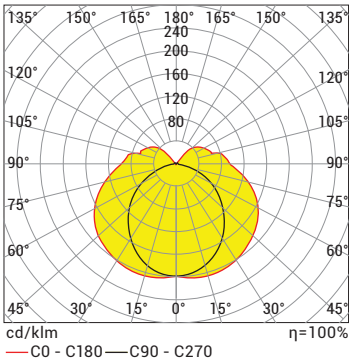
Order Code

P . W . C . J . I . M

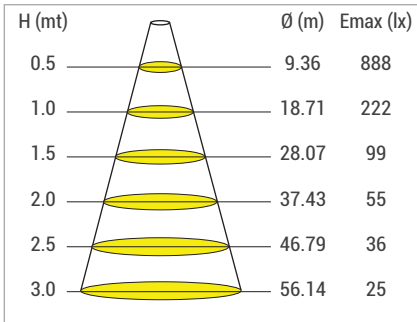


Product Diagrams

Polar Diagram

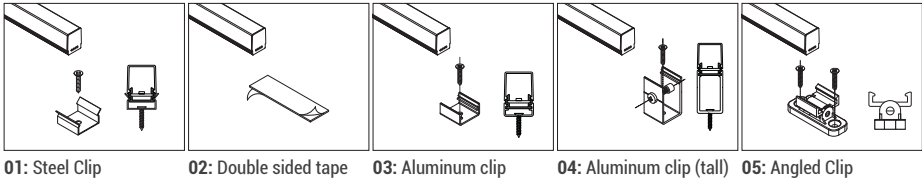


Conical Diagram



LLKS 45 LED CW 120D 18W 24V DC IP40D

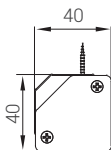
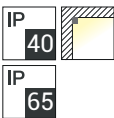
M Mounting Options



Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW	•			•	•	
R,G,B,A	•			•	•	
RGB	•					
RGBA/W	•					
RGB DMX			•			
WHITE DMX			•			





- Min. 20 micron anodized aluminum extruded profile
- Anodized aluminum housing
- Stainless connectors
- PVC side cover with UV protection
- Diffused polycarbonate top cover with UV protection
- Cooling capacity up to 24W/m
- Suitable for surface mounting

P W Product & Power Options

Product Name/LED Quantity	Light Color	Input Voltage (V)	Power (W/mt)	Luminous Flux (lm)	Weight (kg)
LLCRN 45LED	WW-NW-CW	24V DC	10,8	725	0,7
LLCRN 45LED	WW-NW-CW	24V DC	18	1.090	0,7
LLCRN 60LED	WW-NW-CW	24V DC	4,8	390	0,7
LLCRN 60LED	WW-NW-CW	24V DC	14,4	1.055	0,7
LLCRN 60LED	WW-NW-CW	24V DC	24	1.460	0,7
LLCRN 90LED	WW-NW-CW	24V DC	7,2	575	0,7
LLCRN 180LED	WW-NW-CW	24V DC	14,4	945	0,7
LLCRN 45LED	RGB	24V DC	10,8	-	0,7
LLCRN 60LED	RGB	24V DC	14,4	-	0,7
LLCRN 90LED	RGB	24V DC	21,6	-	0,7
LLCRN 60LED	RGB/W	24V DC	14,4	-	0,7
LLCRN 45LED-DMX	RGB-Pixel	24V DC	12,6	-	0,7

*Power and Lumen values provided are based off of a "cold white (CW) LED".

C Light Color Options

● WW: Warm White 3000K	● R: Red 625nm	● RGB
● NW: Natural White 4000K	● G: Green 525nm	● RGBW
● CW: Cold White 6500K	● B: Blue 465nm	● RGBA
	● A: Amber 590nm	

*Different colors are optional

J Junction Options



01: Cable (side outlet)

02: IP Socket (side outlet)

I IP Protection Class



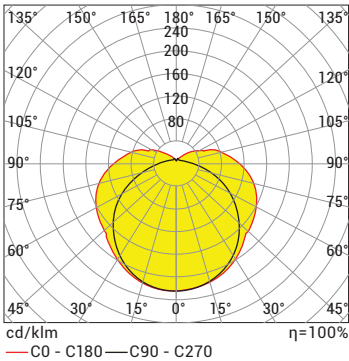
Order Code

P . W . C . J . I

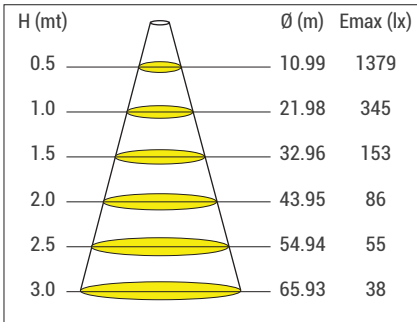


Product Diagrams

Polar Diagram



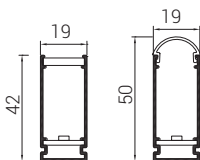
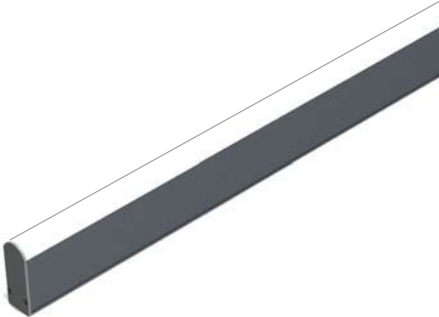
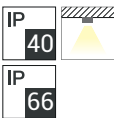
Conical Diagram



LLCRN 60 LED CW 120D 24W 24V DC IP40D

Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW	•			•	•	
R,G,B,A	•			•	•	
RGB	•					
RGBA/W	•					
RGB DMX			•			
WHITE DMX			•			



- Min. 20 micron anodized aluminum extruded profile
- Stainless connectors
- PVC side cover with UV protection
- Transparent or diffused polycarbonate top cover with UV protection
- Cooling capacity up to 21,6 W/m
- Suitable for surface mounting

P W Product & Power Options

Product Name/LED Quantity	Light Color	Input Voltage (V)	Power (W/mt)	Luminous Flux (lm)	Weight (kg)
LLU 60LED	WW-NW-CW	24V DC	4,8	155	0,4
LLU 60LED	WW-NW-CW	24V DC	14,4	360	0,4
LLU 90LED	WW-NW-CW	24V DC	7,2	195	0,4
LLU 180LED	WW-NW-CW	24V DC	14,4	360	0,4
LLU 30LED	RGB	24V DC	7,2	-	0,4
LLU 45LED	RGB	24V DC	10,8	-	0,4
LLU 60LED	RGB	24V DC	14,4	-	0,4
LLU 90LED	RGB	24V DC	21,6	-	0,4
LLU 60LED	RGB/W	24V DC	14,4	-	0,4
LLU 30LED-DMX	RGB-Pixel	24V DC	8,4	-	0,4
LLU 45LED-DMX	RGB-Pixel	24V DC	12,6	-	0,4

*Power and Lumen values provided are based off of a coverless product with cold white (CW) LED.

C Light Color Options

● WW: Warm White 3000K	● R: Red 625nm	● RGB
● NW: Natural White 4000K	● G: Green 525nm	● RGBW
● CW: Cold White 6500K	● B: Blue 465nm	● RGBW
	● A: Amber 590nm	● RGBA

*Different colors are optional

J Junction Options



01: Cable* 02: IP Socket

*IP66 products are socket only



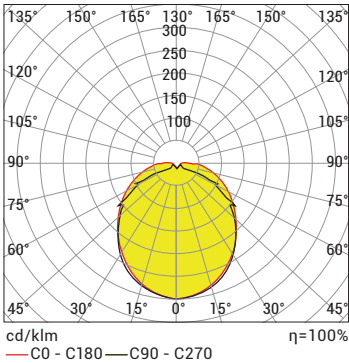
Order Code

P . W . C . J . U . I . M

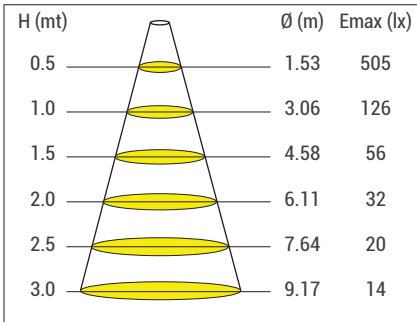


Product Diagrams

Polar Diagram

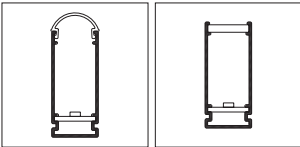


Conical Diagram



LLU CW 45 LED 120D 18W 24V DC IP44D

U Upper Cover Options

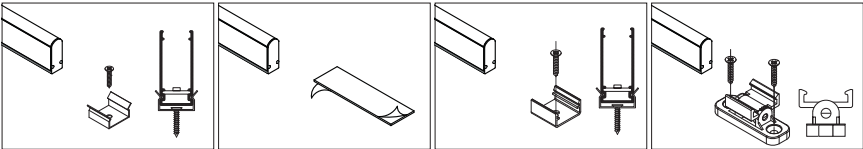


01: Diffused Oval (IP40/IP66)
39: Diffused Flat (IP40/IP66)

I IP Protection Class



M Mounting Options

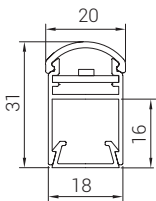
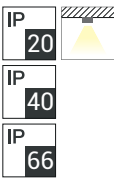


01: Steel Clip
02: Double-Sided Tape
03: Aluminum Clip
05: Angled Clip

Control System Options

	Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW		•			•	•	
R,G,B,A		•			•	•	
RGB		•					
RGBA/W		•					
RGB DMX				•			
WHITE DMX				•			





- Min. 20 micron anodized aluminum extruded profile
- Stainless connectors
- PVC side cover with UV protection
- Transparent or diffused polycarbonate top cover with UV protection
- Cooling capacity up to 21,6 W/m
- Suitable for surface mounting

P W Product & Power Options

Product Name/LED Quantity	Light Color	Input Voltage (V)	Power (W/mt)	Luminous Flux (lm)	Weight (kg)
LLI 30LED	WW-NW-CW	24V DC	2,4	275	0,3
LLI 30LED	WW-NW-CW	24V DC	7,2	680	0,3
LLI 30LED	WW-NW-CW	24V DC	12	1040	0,3
LLI 45LED	WW-NW-CW	24V DC	10,8	1010	0,3
LLI 45LED	WW-NW-CW	24V DC	18	1520	0,3
LLI 60LED	WW-NW-CW	24V DC	4,8	550	0,3
LLI 60LED	WW-NW-CW	24V DC	14,4	1580	0,3
LLI 90LED	WW-NW-CW	24V DC	7,2	815	0,3
LLI 180LED	WW-NW-CW	24V DC	14,4	1.600	0,3
LLI 30LED	RGB	24V DC	7,2	-	0,3
LLI 45LED	RGB	24V DC	10,8	-	0,3
LLI 60LED	RGB	24V DC	14,4	-	0,3
LLI 90LED	RGB	24V DC	21,6	-	0,3
LLI CELL20	RGB-Cell	5V DC	7	-	0,3
LLI CELL30	RGB-Cell	5V DC	10	-	0,3
LLI 60LED	RGB/W	24V DC	14,4	-	0,3
LLI 30LED-DMX	RGB-Pixel	24V DC	8,4	-	0,3
LLI 45LED-DMX	RGB-Pixel	24V DC	12,6	-	0,3

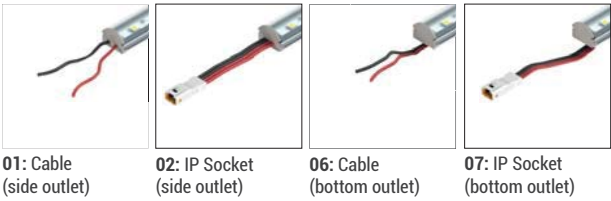
*Power and Lumen values provided are based off of a coverless product with cold white (CW) LED.

C Light Color Options

● WW: Warm White	3000K	● R: Red	625nm	● ● ● RGB
● NW: Natural White	4000K	● G: Green	525nm	● ● ● RGBW
● CW: Cold White	6500K	● B: Blue	465nm	● ● ● RGBA
		● A: Amber	590nm	

*Different colors are optional

J Junction Options



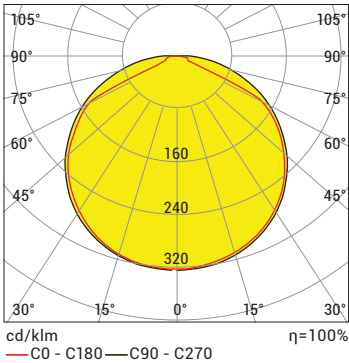
Order Code

P . W . C . J . U . I

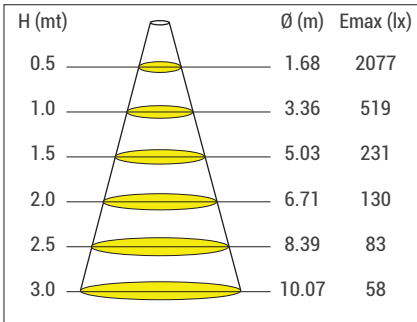


Product Diagrams

Polar Diagram



Conical Diagram

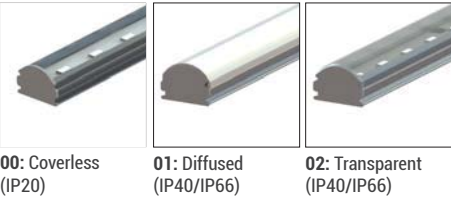


LLI 60 LED 21,6W CW IP20



Kapitoliy Sergiyev Posad Mall, Russia

U Upper Cover Options



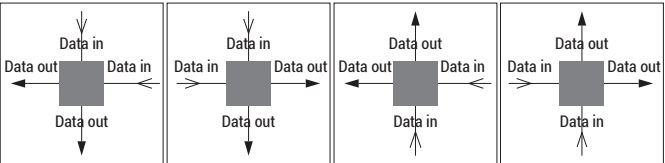
00: Coverless (IP20)
01: Diffused (IP40/IP66)
02: Transparent (IP40/IP66)

I IP Protection Class



External Pixel Control Accessories

DMX Power Connector



E1: Type 1
E2: Type 2
E3: Type 3
E4: Type 4

DMX Power Connector protection box *

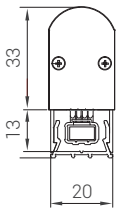
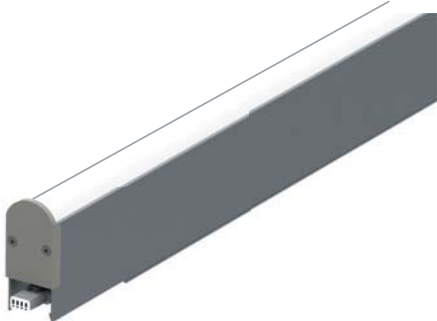
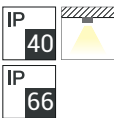


M1: Middle
M2: Side
M3: Corner

*Pixel control box and power connector protection box are available for Led Cell only.

Control System Options

	Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW		•			•	•	
R,G,B,A		•			•	•	
RGB		•					
RGBA/W		•					
RGB DMX				•			
WHITE DMX				•			



- Min. 20 micron anodized aluminum extruded profile
- Stainless connectors
- PVC side cover with UV protection
- Transparent or diffused polycarbonate top cover with UV protection
- Cooling capacity up to 21,6 W/m
- Suitable for surface mounting

P W Product & Power Options

Product Name/LED Quantity	Light Color	Input Voltage (V)	Power (W/m)	Luminous Flux (lm)	Weight (kg)
LLIH 30LED	WW-NW-CW	24V DC	2,4	315	0,625
LLIH 30LED	WW-NW-CW	24V DC	7,2	825	0,625
LLIH 30LED	WW-NW-CW	24V DC	12	1.220	0,625
LLIH 45LED	WW-NW-CW	24V DC	10,8	1.065	0,625
LLIH 45LED	WW-NW-CW	24V DC	18	1.775	0,625
LLIH 60LED	WW-NW-CW	24V DC	4,8	635	0,625
LLIH 60LED	WW-NW-CW	24V DC	14,4	1.465	0,625
LLIH 60LED	WW-NW-CW	24V DC	24	2.390	0,625
LLIH 90LED	WW-NW-CW	24V DC	7,2	950	0,625
LLIH 90LED	WW-NW-CW	24V DC	21,6	2.475	0,625
LLIH 180LED	WW-NW-CW	24V DC	14,4	1.600	0,625
LLIH 30LED	RGB	24V DC	7,2	-	0,625
LLIH 45LED	RGB	24V DC	10,8	-	0,625
LLIH 60LED	RGB	5V DC	14,4	-	0,625
LLIH 90LED	RGB	5V DC	21,6	-	0,625
LLIH 30LED	RGB Pixel	24V DC	8,4	-	0,625
LLIH 45LED	RGB Pixel	24V DC	12,6	-	0,625

*Power and Lumen values provided are based off of a coverless product with cold white (CW) LED.

C Light Color Options

● WW: Warm White	3000K	● R: Red	625nm	● RGB
● NW: Natural White	4000K	● G: Green	525nm	● RGBW
● CW: Cold White	6500K	● B: Blue	465nm	● RGBA
		● A: Amber	590nm	

*Different colors are optional

J Junction Options



01: Cable (side outlet) 02: IP Socket (side outlet)

*IP66 products are socket only



Order Code

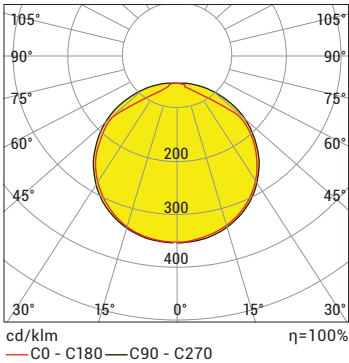
P . W . C . J . U . I



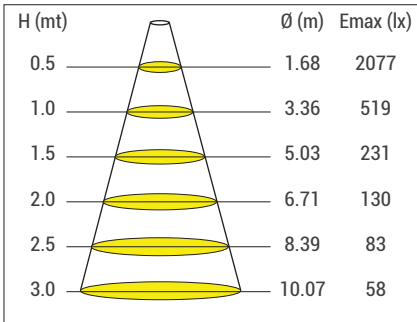
Please contact our sales representatives for special application requests other than the standard product.

Product Diagrams

Polar Diagram

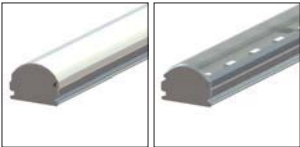


Conical Diagram



LLIH 60 LED - 24W CW IP20

U Upper Cover Options



01: Diffused (IP40/IP66)
02: Transparent (IP40/IP66)

I IP Protection Class

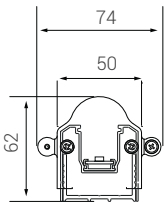
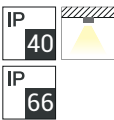


Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW	•			•	•	
R,G,B,A	•			•	•	
RGB	•					
RGBA/W	•					
RGB DMX			•			
WHITE DMX			•			



Side Sungate Hotel, Antalya



- Min. 20 micron anodized aluminum extruded profile
- Stainless connectors
- PVC side cover with UV protection
- Diffused polycarbonate front cover with UV protection
- Cooling capacity up to 36W/m
- Suitable Surface mount

P W Product & Power Options

Product Name/LED Quantity	Light Color	Input Voltage (V)	Power (W/mt)	Luminous Flux (lm)	Weight (kg)
LLW2 30LED	WW-NW-CW	24V DC	12	490	1,6
LLW2 45LED	WW-NW-CW	24V DC	18	710	1,6
LLW2 60LED	WW-NW-CW	24V DC	14,4	730	1,6
LLW2 60LED	WW-NW-CW	24V DC	24	940	1,6
LLW2 90LED	WW-NW-CW	24V DC	7,2	315	1,6
LLW2 90LED	WW-NW-CW	24V DC	36	1.350	1,6
LLW2 180LED	WW-NW-CW	24V DC	14,4	625	1,6
LLW2 30LED	RGB	24V DC	7,2	-	1,6
LLW2 45LED	RGB	24V DC	10,8	-	1,6
LLW2 60LED	RGB	24V DC	14,4	-	1,6
LLW2 90LED	RGB	24V DC	21,6	-	1,6
LLW2 60LED	RGB/W	24V DC	14,4	-	1,6
LLW2 30LED-DMX	RGB-Pixel	24V DC	8,4	-	1,6
LLW2 45LED-DMX	RGB-Pixel	24V DC	12,6	-	1,6

*Power and Lumen values provided are based off of a "cold white (CW) LED".

C Light Color Options

● WW: Warm White 3000K	● R: Red 625nm	● RGB
● NW: Natural White 4000K	● G: Green 525nm	● RGBW
● CW: Cold White 6500K	● B: Blue 465nm	● RGBW
	● A: Amber 590nm	● RGBA

*Different colors are optional

J Junction Options



01: Cable *

02: IP Socket

*IP66 products are socket only



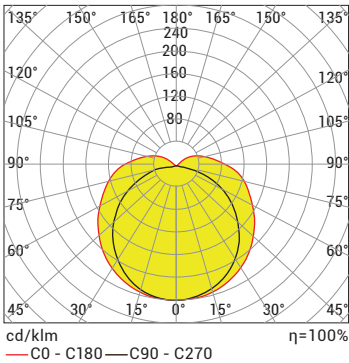
Order Code

P . W . C . J . U . I . M

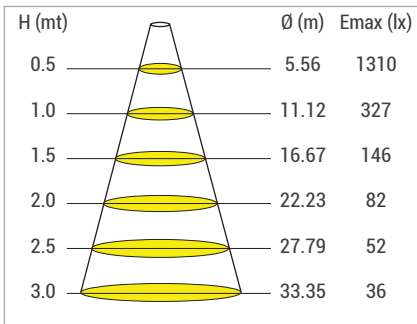


Product Diagrams

Polar Diagram

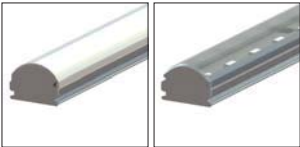


Conical Diagram



LLW2 90 LED CW 120D 36W 220V AC IP44

U Upper Cover Options

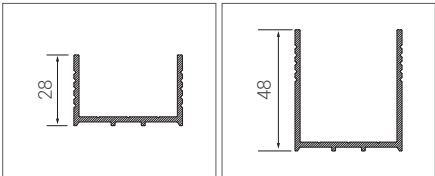


01: Diffused (IP40/IP66) 02: Transparent (IP40/IP66)

I IP Protection Class



M Mounting Options

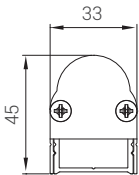
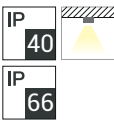


07: DT28 08: DT48

Control System Options

	Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW		•			•	•	
R,G,B,A		•			•	•	
RGB		•					
RGBA/W		•					
RGB DMX				•			
WHITE DMX				•			





- Min. 20 micron anodized aluminum extruded profile
- Stainless connectors
- PVC side cover with UV protection
- UV protective, diffused front cover
- Cooling capacity up to 36W/m
- Suitable for surface mounting

P W Product & Power Options

Product Name/LED Quantity	Light Color	Input Voltage (V)	Power (W/mt)	Luminous Flux (lm)	Weight (kg)
LLB33 30LED	WW-NW-CW	24V DC	12	765	0,85
LLB33 45LED	WW-NW-CW	24V DC	18	1.110	0,85
LLB33 60LED	WW-NW-CW	24V DC	14,4	1.090	0,85
LLB33 60LED	WW-NW-CW	24V DC	24	1.470	0,85
LLB33 90LED	WW-NW-CW	24V DC	7,2	505	0,85
LLB33 90LED	WW-NW-CW	24V DC	36	2.070	0,85
LLB33 180LED	WW-NW-CW	24V DC	14,4	960	0,85
LLB33 30LED	RGB	24V DC	7,2	-	0,85
LLB33 45LED	RGB	24V DC	10,8	-	0,85
LLB33 60LED	RGB	24V DC	14,4	-	0,85
LLB33 90LED	RGB	24V DC	21,6	-	0,85
LLB33 60LED	RGB/W	24V DC	14,4	-	0,85
LLB33 30LED-DMX	RGB-Pixel	24V DC	8,4	-	0,85
LLB33 45LED-DMX	RGB-Pixel	24V DC	12,6	-	0,85

*Power and Lumen values provided are based off of a "cold white (CW) LED".

C Light Color Options

● WW: Warm White 3000K	● R: Red 625nm	● RGB
● NW: Natural White 4000K	● G: Green 525nm	● RGBW
● CW: Cold White 6500K	● B: Blue 465nm	● RGBW
	● A: Amber 590nm	● RGBA

*Different colors are optional

J Junction Options



01: Cable *
02: IP Socket
*IP66 products are socket only



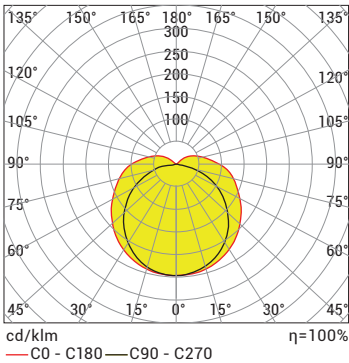
Order Code

P . W . C . J . U . I . M

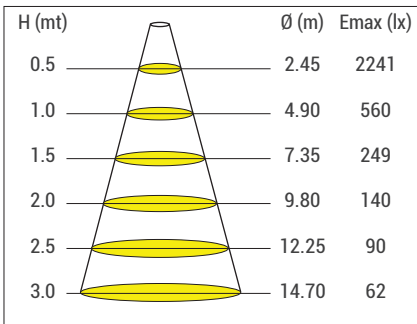


Product Diagrams

Polar Diagram



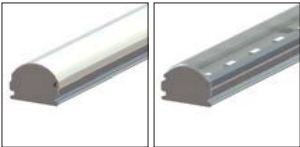
Conical Diagram



LLB33 90 LED CW 120D 36 W 220V AC IP44D

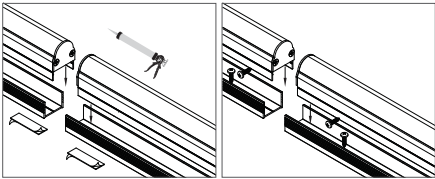


U Upper Cover Options



01: Diffused (IP40/IP66)
02: Transparent (IP40/IP66)

M Mounting Options



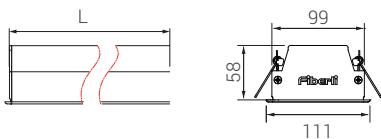
02: Silicone+ Double sided tape
14: Screw mounting

Control System Options

	Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW		•			•	•	
R,G,B,A		•			•	•	
RGB		•					
RGBA/W		•					
RGB DMX				•			
WHITE DMX				•			



Hilltown Mall, İzmir



- Min. 20 micron anodized aluminum extruded profile
- Stainless connectors
- ABS end caps with UV protection
- Diffused polycarbonate top cover with UV protection
- Cooling capacity up to 72 W/m
- Suitable for recessed mounting

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W/mt)	Luminous Flux (lm)	Weight (kg)
ERL100	WW-NW-CW	24V DC	24	1.440	2,3
ERL100	WW-NW-CW	24V DC	36	2.160	2,3
ERL100	WW-NW-CW	24V DC	48	2.880	2,3
ERL100	WW-NW-CW	24V DC	54	3.240	2,3
ERL100	WW-NW-CW	24V DC	72	4.320	2,3

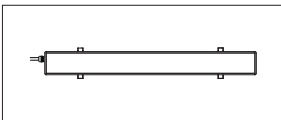
*Power and Lumen values provided are based off of a "cold white (CW) LED".

C Light Color Options

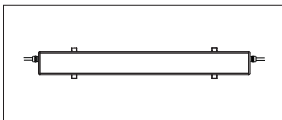
● WW: Warm White	3000K
● NW: Natural White	4000K
● CW: Cold White	6500K

*Different colors are optional.

K Cable Direction Options

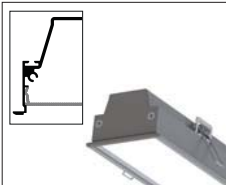


01: Single Entry

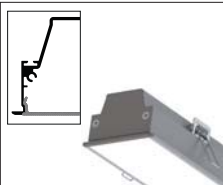


03: Dual end exit and entry

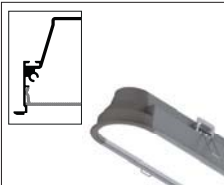
U Upper Cover Options



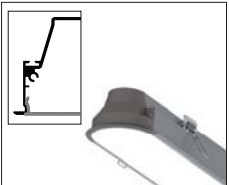
05: Flat Deep Surface



06: Flat Surface



07: Oval Deep Surface



08: Oval Surface



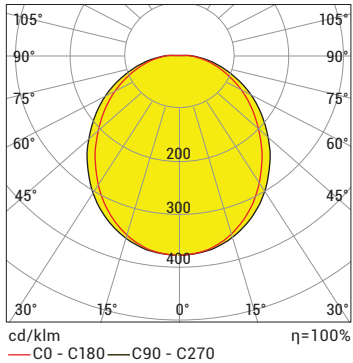
Order Code

P . W . C . K . U

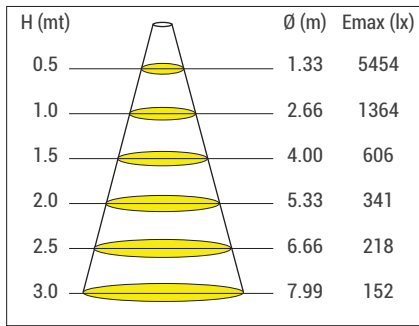


Product Diagrams

Polar Diagram

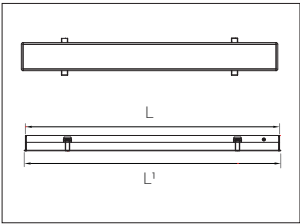


Conical Diagram



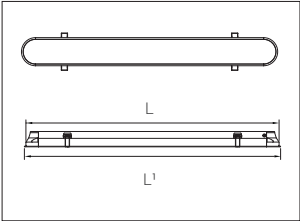
ERL100 CW 120D 72W 24V DC IP44D

Product Length Options For ERL 100 Flat



Product Code	*Min. length (L) mm	**Application length mm	Power (W)	Outer Dimension (L1) mm
ERL100	220	200	24	L+14
ERL100	153	133	36	L+14
ERL100	120	100	48	L+14
ERL100	153	133	54	L+14
ERL100	86	66	72	L+14
ERL100	220	200	14	L+14
ERL100	120	100	28	L+14
ERL100	220	200	43	L+14

Product Length Options For ErRL 100 Oval



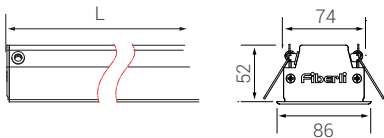
Product Code	*Min. length (L) mm	**Application length mm	Power (W)	Outer Dimension (L1) mm
ERL100	280	200	24	L+14
ERL100	213	133	36	L+14
ERL100	190	100	48	L+14
ERL100	213	133	54	L+14
ERL100	146	66	72	L+14
ERL100	280	200	14	L+14
ERL100	180	100	28	L+14
ERL100	280	200	43	L+14

*L=product length with end caps.
**Application length formula (L) =min. length +(Application length x Qty)

Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW	●			●	●	
R,G,B,A	●●●●					
RGB	●●●					
RGBA/W	●●●●					
RGB DMX	●●●					
WHITE DMX	●					





- Min. 20 micron anodized aluminum extruded profile
- Stainless connectors
- ABS end caps with UV protection
- Diffused polycarbonate top cover with UV protection
- Cooling capacity up to 72 W/m
- Suitable for recessed mounting

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W/mt)	Luminous Flux (lm)	Weight (kg)
ERL75	WW-NW-CW	24V DC	24	1.440	2,05
ERL75	WW-NW-CW	24V DC	36	2.160	2,05
ERL75	WW-NW-CW	24V DC	48	2.880	2,05
ERL75	WW-NW-CW	24V DC	72	4.320	2,05

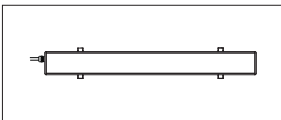
*Power and Lumen values provided are based off of a "cold white (CW) LED".

C Light Color Options

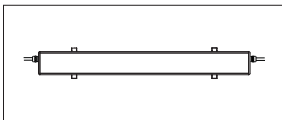
● WW: Warm White	3000K
● NW: Natural White	4000K
● CW: Cold White	6500K

*Different colors are optional.

K Cable Direction Options

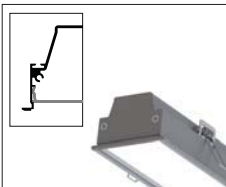


01: Single Entry

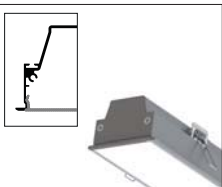


03: Dual end exit and entry

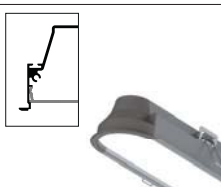
U Upper Cover Options



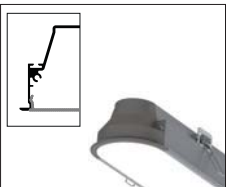
05: Flat Deep Surface



06: Flat Surface



07: Oval Deep Surface



08: Oval Surface



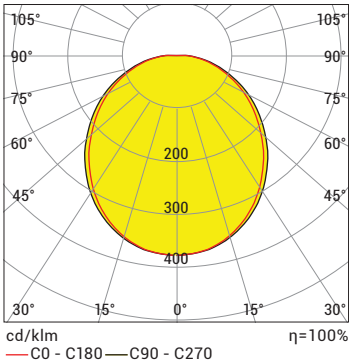
Order Code

P . W . C . K . U

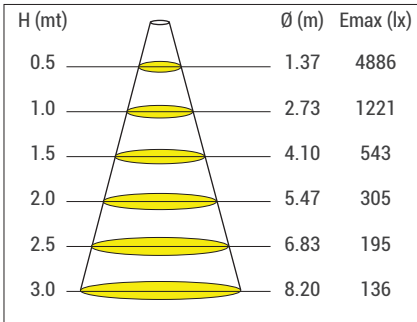


Product Diagrams

Polar Diagram

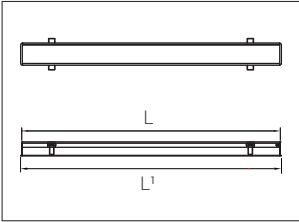


Conical Diagram



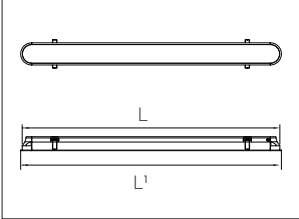
ERL75 CW 120D 72W 24V DC IP44D

Product Length Options For ERL 75 Flat



Product Code	*Min. length (L) mm	**Application length mm	Power (W)	Outer Dimension (L¹) mm
ERL75	230	200	24	L+14
ERL75	153	133	36	L+14
ERL75	120	100	48	L+14
ERL75	86	66	72	L+14
ERL75	220	200	14	L+14
ERL75	120	100	28	L+14

Product Length Options For ErRL 75 Oval



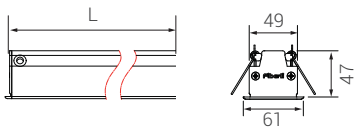
Product Code	*Min. length (L) mm	**Application length mm	Power (W)	Outer Dimension (L¹) mm
ERL75	255	200	24	L+14
ERL75	188	133	36	L+14
ERL75	155	100	48	L+14
ERL75	121	66	72	L+14
ERL75	255	200	14	L+14
ERL75	155	100	28	L+14

*L=product length with end caps.
**Application length formula(L) =min. length +(Application length x Qty)

Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW	●			●	●	
R,G,B,A	●●●●					
RGB	●●●					
RGBA/W	●●●●					
RGB DMX	●●●					
WHITE DMX	●					





- Min. 20 micron anodized aluminum extruded profile
- Stainless connectors
- ABS end caps with UV protection
- Diffused polycarbonate top cover with UV protection
- Cooling capacity up to 36 W/m
- Suitable for recessed mounting

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W/mt)	Luminous Flux (lm)	Weight (kg)
ERL50	WW-NW-CW	24V DC	14	840	1,6
ERL50	WW-NW-CW	24V DC	24	1.440	1,6
ERL50	WW-NW-CW	24V DC	36	2.160	1,6

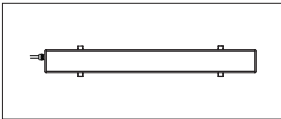
*Power and Lumen values provided are based off of a "cold white (CW) LED".

C Light Color Options

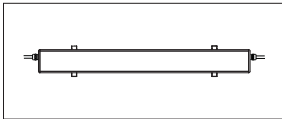
WW: Warm White	3000K
NW: Natural White	4000K
CW: Cold White	6500K

*Different colors are optional.

K Cable Direction Options

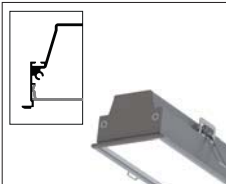


01: Single Entry

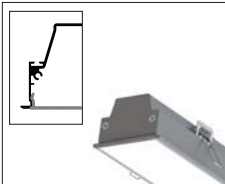


03: Dual end exit and entry

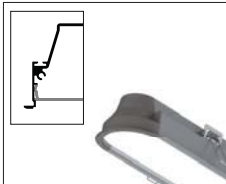
U Upper Cover Options



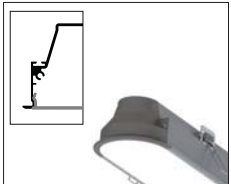
05: Flat Deep Surface



06: Flat Surface



07: Oval Deep Surface



08: Oval Surface



Order Code

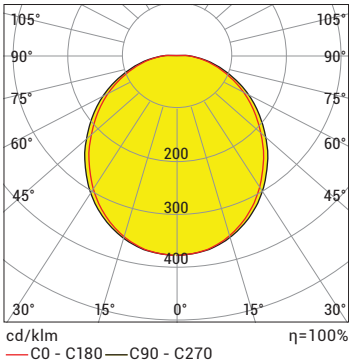
P . W . C . K . U



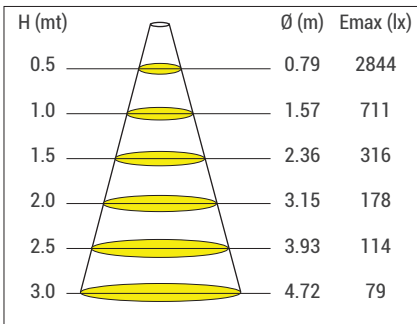
Please contact our sales representatives for special application requests other than the standard product.

Product Diagrams

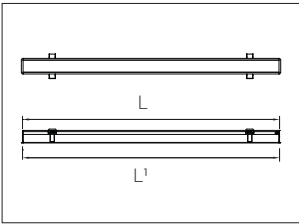
Polar Diagram



Conical Diagram

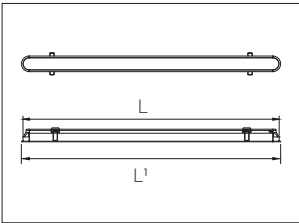


Product Length Options For ERL 50 Flat



Product Code	*Min. length (L) mm	**Application length mm	Power (W)	Outer Dimension (L¹) mm
ERL50	220	200	12	L+14
ERL50	153	133	18	L+14
ERL50	120	100	24	L+14
ERL50	86	66	36	L+14
ERL50	210	200	7	L+14
ERL50	110	100	14	L+14

Product Length Options For ErRL 50 Oval



Product Code	*Min. length (L) mm	**Application length mm	Power (W)	Outer Dimension (L¹) mm
ERL50	230	200	24	L+14
ERL50	163	133	36	L+14
ERL50	130	100	48	L+14
ERL50	96	66	72	L+14
ERL50	230	200	14	L+14
ERL50	130	100	28	L+14

*L=product length with end caps.
**Application length formula(L)=min. length +(Application length x Qty)

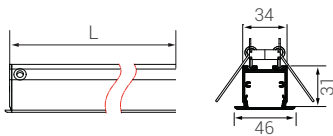
Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW	●			●	●	
R,G,B,A	●●●●					
RGB	●●●					
RGBA/W	●●●●					
RGB DMX	●●●					
WHITE DMX	●					



Ashgabat Olympic Stadium, Turkmenistan





- Min. 20 micron anodized aluminum extruded profile
- Stainless connectors
- ABS end caps with UV protection
- Diffused polycarbonate top cover with UV protection
- Cooling capacity up to 36 W/m
- Suitable for recessed mounting

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W/mt)	Luminous Flux (lm)	Weight (kg)
ERL35	WW-NW-CW	24V DC	7	420	1,1
ERL35	WW-NW-CW	24V DC	14	840	1,1
ERL35	WW-NW-CW	24V DC	24	1.440	1,1
ERL35	WW-NW-CW	24V DC	36	2.160	1,1

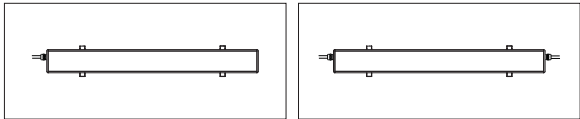
*Power and Lumen values provided are based off of a "cold white (CW) LED".

C Light Color Options

WW: Warm White	3000K
NW: Natural White	4000K
CW: Cold White	6500K

*Different colors are optional.

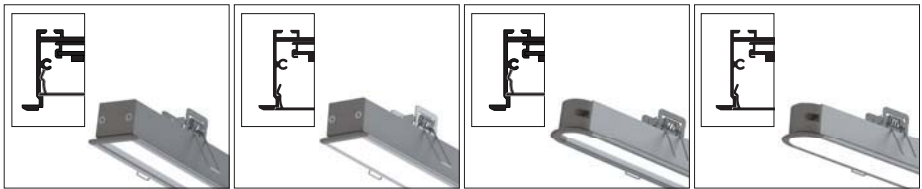
K Cable Direction Options



01: Single Entry

03: Dual end exit and entry

U Upper Cover Options



05: Flat Deep Surface

06: Flat Surface

07: Oval Deep Surface

08: Oval Surface

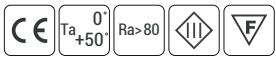
Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW	•			•	•	
R,G,B,A						
RGB						
RGBA/W						
RGB DMX						
WHITE DMX						



Order Code

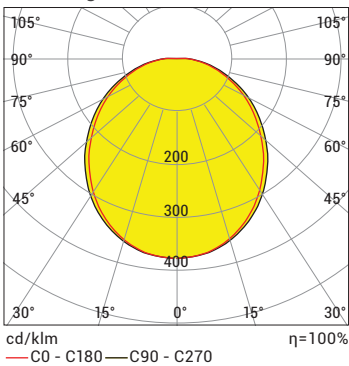
P . W . C . K . U



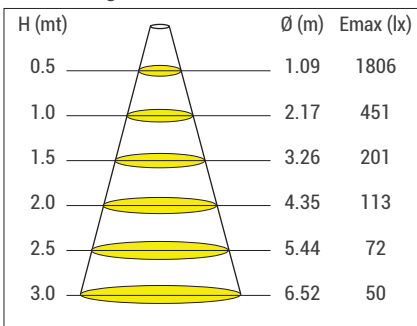
Please contact our sales representatives for special application requests other than the standard product.

Product Diagrams

Polar Diagram

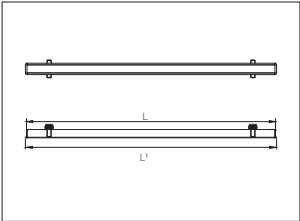


Conical Diagram



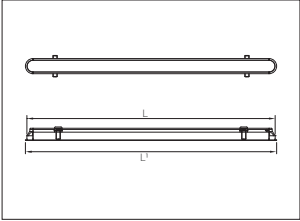
ERL35 CW 120D 24W 24V DC IP44D

Product Length Options For ERL 35 Flat



Product Code	*Min. length (L) mm	**Application length mm	Power (W)	Outer Dimension (L1) mm
ERL35	120	100	7	L+14
ERL35	220	200	12	L+14
ERL35	120	100	14	L+14
ERL35	153	133	18	L+14
ERL35	120	100	24	L+14
ERL35	86	66	36	L+14

Product Length Options For ERL 35 Oval

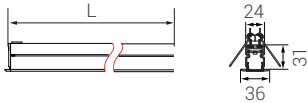


Product Code	*Min. length (L) mm	**Application length mm	Power (W)	Outer Dimension (L1) mm
ERL35	135	100	7	L+14
ERL35	235	200	12	L+14
ERL35	135	100	14	L+14
ERL35	168	133	18	L+14
ERL35	135	100	24	L+14
ERL35	101	66	36	L+14

*L=product length with end caps.
**Application length formula(L)=min. length +(Application length x Qty)



Salaris Shopping Mall, Moscow



- Min. 20 micron anodized aluminum extruded profile
- Stainless connectors
- ABS end caps with UV protection
- Diffused polycarbonate top cover with UV protection
- Cooling capacity up to 24 W/m
- Suitable for recessed mounting

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W/mt)	Luminous Flux (lm)	Weight (kg)
ERL25	WW-NW-CW	24V DC	7	420	0,95
ERL25	WW-NW-CW	24V DC	14	840	0,95
ERL25	WW-NW-CW	24V DC	24	1.440	0,95

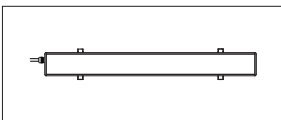
*Power and Lumen values provided are based off of a "cold white (CW) LED".

C Light Color Options

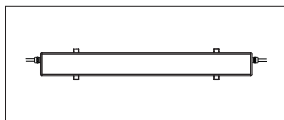
WW: Warm White	3000K
NW: Natural White	4000K
CW: Cold White	6500K

*Different colors are optional.

K Cable Direction Options

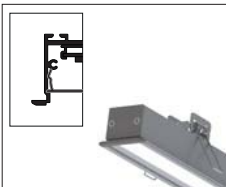


01: Single Entry

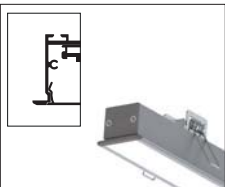


03: Dual end exit and entry

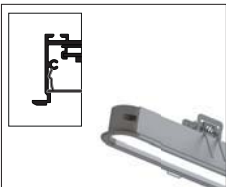
U Upper Cover Options



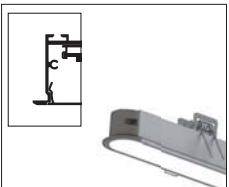
05: Flat Deep Surface



06: Flat Surface



07: Oval Deep Surface



08: Oval Surface

Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW	•			•	•	
R,G,B,A						
RGB						
RGBA/W						
RGB DMX						
WHITE DMX						



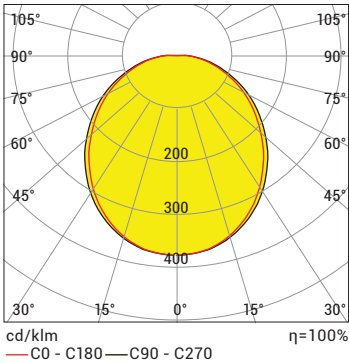
Order Code

P . W . C . K . U

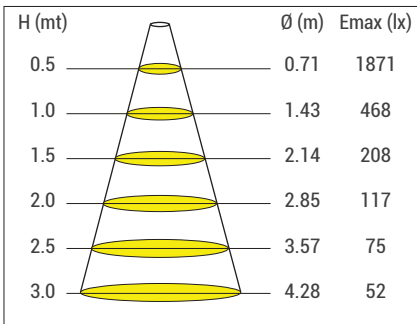


Product Diagrams

Polar Diagram

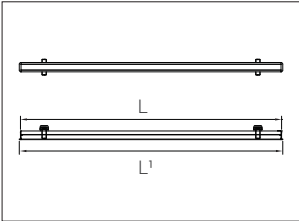


Conical Diagram



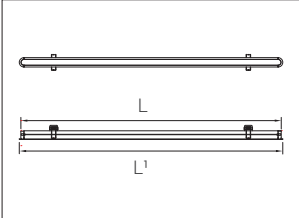
ERL25 CW 120D 24W 24V DC IP44D

Product Length Options For ERL25 Flat



Product Code	*Min. length (L) mm	**Application length mm	Power (W)	Outer Dimension (L1) mm
ERL25	120	100	7	L+14
ERL25	220	200	12	L+14
ERL25	120	100	14	L+14
ERL25	153	133	18	L+14
ERL25	120	100	24	L+14
ERL25	220	200	7	L+14
ERL25	120	100	14	L+14

Product Length Options For ErRL25 Oval

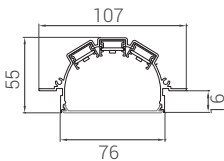


Product Code	*Min. length (L) mm	**Application length mm	Power (W)	Outer Dimension (L1) mm
ERL25	125	100	7	L+14
ERL25	225	200	12	L+14
ERL25	125	100	14	L+14
ERL25	158	133	18	L+14
ERL25	125	100	24	L+14
ERL25	225	200	7	L+14
ERL25	125	100	14	L+14

*L=product length with end caps.
**Application length formula(L)=min. length +(Application length x Qty)



Algorithm Business Center, Russia



- Min. 20 micron anodized aluminum extruded profile
- Metal end cap
- Trimless housing design
- Polycarbonate front cover with UV protection
- Cooling capacity up to 72 W/m
- Suitable for recessed mounting

P W Product & Power Options

Product Name/LED Quantity	Light Color	Input Voltage (V)	Power (W/mt)	Luminous Flux (lm)	Weight (kg)
LLG60LED	WW-NW-CW	24V DC	24	1.190	1,2
LLG90LED	WW-NW-CW	24V DC	36	1.695	1,2

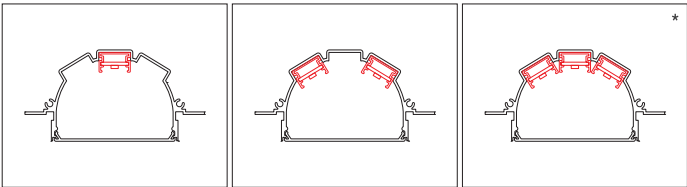
*Power and Lumen values provided are based off of a "cold white (CW) LED".

C Light Color Options

● WW: Warm White	3000K	● R: Red	625nm	● RGB
● NW: Natural White	4000K	● G: Green	525nm	● RGBW
● CW: Cold White	6500K	● B: Blue	465nm	● RGBA
		● A: Amber	590nm	

*Different colors are optional

R LED Density



01: Single row Ledline

02: Double row Ledline

03: Triple row Ledline

*Cooling capacity up to 72W/m



Order Code

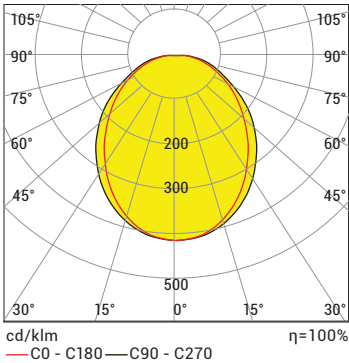
P . W . C . R



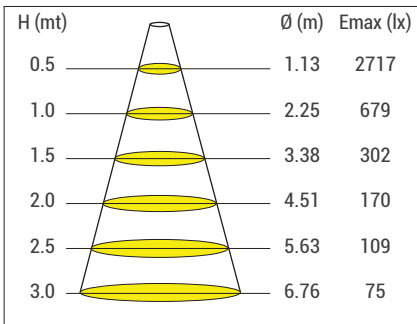
Please contact our sales representatives for special application requests other than the standard product.

Product Diagrams

Polar Diagram



Conical Diagram

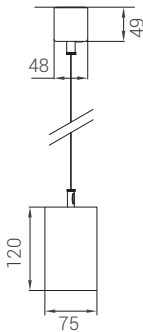
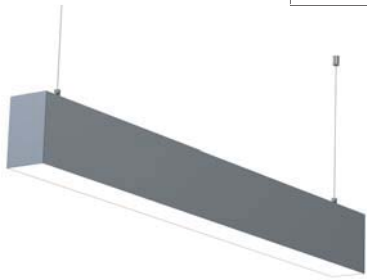


LLG 90 LED CW 120D 36W 24V DC IP44D

Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW	•			•	•	
R,G,B,A	•			•	•	
RGB	•					
RGBA/W	•					
RGB DMX						
WHITE DMX						





- Min. 20 micron anodized aluminum extruded profile
- Stainless connectors
- Metal end cap
- Polycarbonate front cover with UV protection
- Cooling capacity up to 70 W/m
- Suitable for as pendant and surface mounting
- Standard rope size 150cm

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Fixture Model	Length (L) (mm)	Weight (kg)
EPL75-120	WW-NW-CW	220-240V AC	45	4.050	Direct	1217	4,1
EPL75-120	WW-NW-CW	220-240V AC	55	4.950	Direct + Indirect	1217	4,2
EPL75-160	WW-NW-CW	220-240V AC	68	6.120	Direct	1617	5,3
EPL75-160	WW-NW-CW	220-240V ACC	83	7.470	Direct + Indirect	1617	5,4

*Power and Lumen values provided are based off of a "cold white (CW) LED".

C Light Color Options

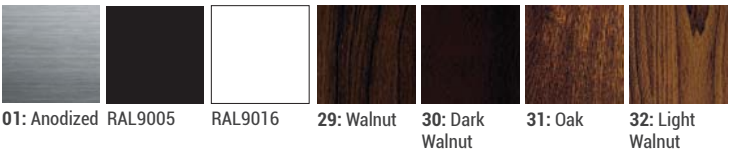
WW: Warm White	3000K
NW: Natural White	4000K
CW: Cold White	6500K

*Different colors are optional.

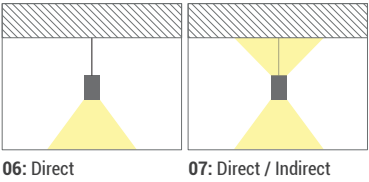
S Driver Options

- 01 Standard Driver
- 06 DALI Driver
- 11 Driver + Emergency Lighting Kit 1h
- 12 Driver + Emergency Lighting Kit 3h

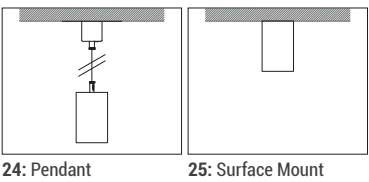
G Housing Color/Coating Options



E Additional Pieces Options



M Mounting Options



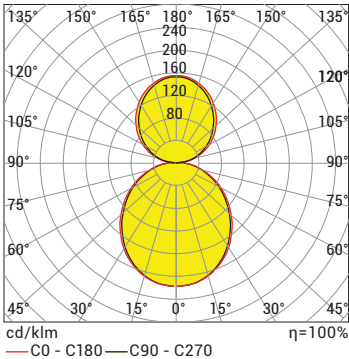
Order Code

P . W . C . S . G . E . M

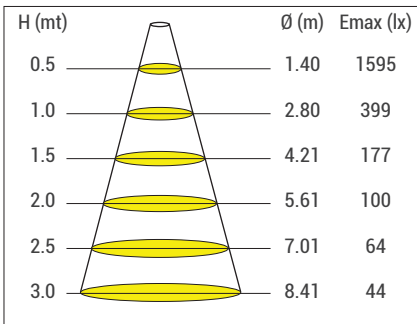


Product Diagrams

Polar Diagram



Conical Diagram

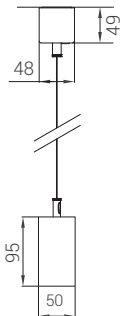


EPL75 CW DIRECT INDIRECT 44W 220V AC IP44D

Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW	●			●	●	
R,G,B,A	●●●●					
RGB	●●●					
RGBA/W	●●●●					
RGB DMX	●●●					
WHITE DMX	●					





- Min. 20 micron anodized aluminum extruded profile
- Stainless connectors.
- Metal end cap
- Polycarbonate front cover with UV protection
- Cooling capacity up to 70 W/m
- Suitable for as pendant and surface mounting
- Standard rope size 150cm

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Fixture Model	Length (L) (mm)	Weight (kg)
EPL50-120	WW-NW-CW	220-240V AC	15	1.350	Direct	1217	3,5
EPL50-120	WW-NW-CW	220-240V AC	30	2.700	Direct	1217	3,5
EPL50-120	WW-NW-CW	220-240V AC	45	4.050	Direct + Indirect	1217	3,6
EPL50-160	WW-NW-CW	220-240V AC	25	2.250	Direct	1617	4,1
EPL50-160	WW-NW-CW	220-240V AC	42	3.780	Direct	1617	4,1
EPL50-160	WW-NW-CW	220-240V AC	63	5.670	Direct + Indirect	1617	4,2

*Power and Lumen values provided are based off of a "cold white (CW) LED".

C Light Color Options

WW: Warm White	3000K
NW: Natural White	4000K
CW: Cold White	6500K

*Different colors are optional.

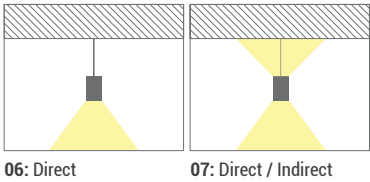
S Driver Options

- 01 Standard Driver
- 06 DALI Driver
- 11 Driver + Emergency Lighting Kit 1h
- 12 Driver + Emergency Lighting Kit 3h

G Housing Color/Coating Options

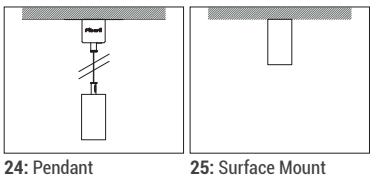
01: Anodized RAL9005	RAL9016	29: Walnut	30: Dark Walnut	31: Oak	32: Light Walnut

E Additional Pieces Options



06: Direct 07: Direct / Indirect

M Mounting Options



24: Pendant 25: Surface Mount



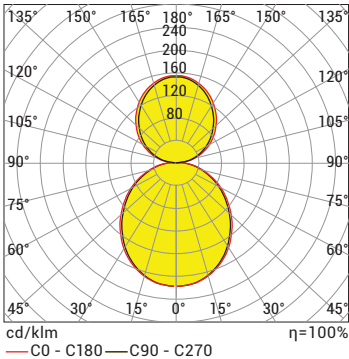
Order Code

P . W . C . S . G . E . M

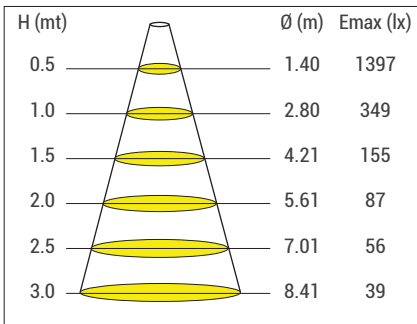


Product Diagrams

Polar Diagram



Conical Diagram

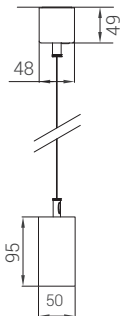


EPL50 DIRECT INDIRECT CW 42W 220V AC IP44D

Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW	●			●	●	
R,G,B,A	● ● ● ●					
RGB	● ● ●					
RGBA/W	● ● ● ●					
RGB DMX	● ● ●					
WHITE DMX	●					





- Min. 20 micron anodized aluminum extruded profile
- Stainless connectors.
- Metal end cap
- Polycarbonate front cover with UV protection
- Cooling capacity up to 70 W/m
- Suitable for as pendant and surface mounting
- Standard rope size 150cm

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Fixture Model	Length (L) (mm)	Weight (kg)
EPL35-120	WW-NW-CW	220-240V AC	15	1.350	Direct	1217	2,9
EPL35-120	WW-NW-CW	220-240V AC	30	2.700	Direct	1217	2,9
EPL35-120	WW-NW-CW	220-240V AC	45	4.050	Direct + Indirect	1217	3,0
EPL35-160	WW-NW-CW	220-240V AC	25	2.250	Direct	1617	3,8
EPL35-160	WW-NW-CW	220-240V AC	42	3.780	Direct	1617	3,8
EPL35-160	WW-NW-CW	220-240V AC	63	5.670	Direct + Indirect	1617	3,9

*Power and Lumen values provided are based off of a "cold white (CW) LED".

C Light Color Options

WW: Warm White	3000K
NW: Natural White	4000K
CW: Cold White	6500K

*Different colors are optional.

S Driver Options

- 01 Standard Driver
- 06 DALI Driver
- 11 Driver + Emergency Lighting Kit 1h
- 12 Driver + Emergency Lighting Kit 3h

G Housing Color/Coating Options

01: Anodized RAL9005	RAL9016	29: Walnut	30: Dark Walnut	31: Oak	32: Light Walnut

E Additional Pieces Options

06: Direct	07: Direct / Indirect

M Mounting Options

24: Pendant	25: Surface Mount



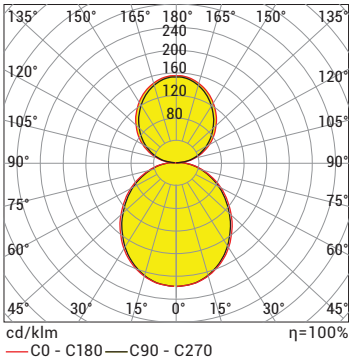
Order Code

P . W . C . S . G . E . M

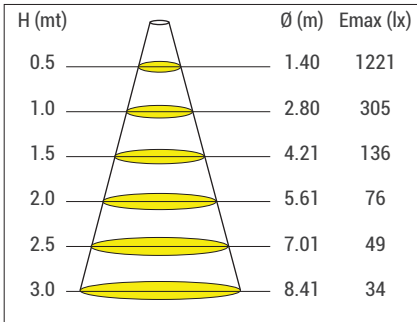


Product Diagrams

Polar Diagram



Conical Diagram

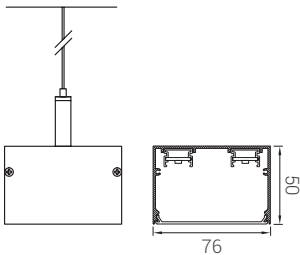
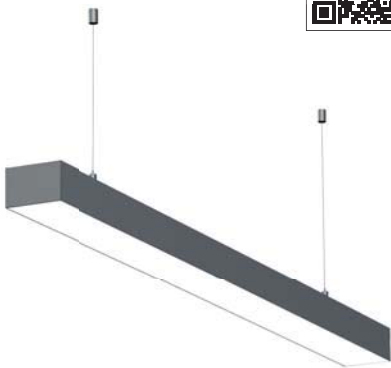


EPL35 CW DIRECT INDIRECT 34W 220V AC IP44D

Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW	●			●	●	
R,G,B,A	● ● ● ●					
RGB	● ● ●					
RGBA/W	● ● ● ●					
RGB DMX	● ● ●					
WHITE DMX	●					





- Min. 20 micron anodized aluminum extruded profile
- Metal end cap
- Polycarbonate front cover with UV protection
- Cooling capacity up to 72 W/m
- Suitable for as pendant mounting
- Standard rope size 150cm

P W Product & Power Options

Product Name/LED Quantity	Light Color	Input Voltage (V)	Power (W/mt)	Luminous Flux (lm)	Weight (kg)
LLA30LED	WW-NW-CW	24V DC	7,2	650	1,2
LLA30LED	WW-NW-CW	24V DC	12	1.080	1,2
LLA45LED	WW-NW-CW	24V DC	10,8	980	1,2
LLA45LED	WW-NW-CW	24V DC	18	1.630	1,2
LLA60LED	WW-NW-CW	24V DC	14,4	1.300	1,2
LLA60LED	WW-NW-CW	24V DC	24	2.200	1,2
LLA90LED	WW-NW-CW	24V DC	36	3.250	1,2

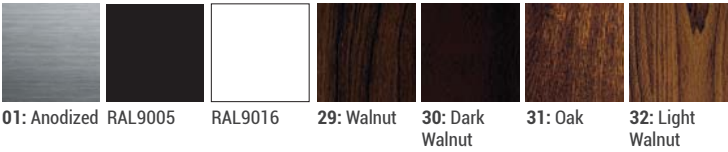
*Power and Lumen values provided are based off of a "cold white (CW) LED".

C Light Color Options

WW: Warm White	3000K
NW: Natural White	4000K
CW: Cold White	6500K

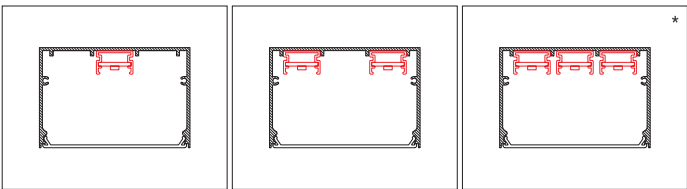
*Different colors are optional

G Housing Color/Coating Options



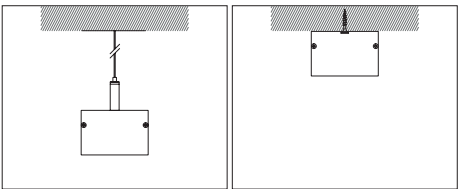
01: Anodized RAL9005 RAL9016 29: Walnut 30: Dark Walnut 31: Oak 32: Light Walnut

R LED Density



01: Single row Ledline 02: Double row Ledline 03: Triple row Ledline
*Cooling capacity up to 36W/m

M Mounting Options



25: Pendant 26: Surface mount



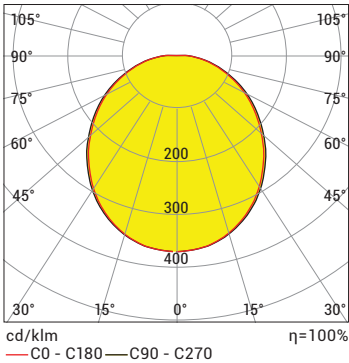
Order Code

P . W . C . R . M

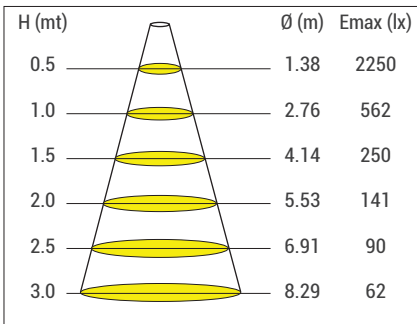


Product Diagrams

Polar Diagram



Conical Diagram

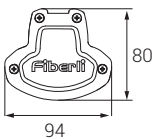


LLA 90 LED CW 120D 36W 24V DC IP44D

Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW	•			•	•	
R,G,B,A						
RGB						
RGBA/W						
RGB DMX						
WHITE DMX						





- Min. 20 micron anodized aluminum extruded profile
- Stainless connectors
- PVC side cover with UV protection
- Transparent or diffused polycarbonate top cover with UV protection
- Suitable for surface mounting

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Length (mm)	Weight (kg)
LLET30	WW-NW-CW	220V-240 AC	12	1.550	331	0,9
LLET60	WW-NW-CW	220V-240 AC	15	1.950	636	1,5
LLET60	WW-NW-CW	220V-240 AC	22	2.850	636	1,5
LLET120	WW-NW-CW	220V-240 AC	29	3.775	1236	2,8
LLET120	WW-NW-CW	220V-240 AC	42	5.450	1236	2,8
LLET160	WW-NW-CW	220V-240 AC	55	7.150	1636	3,8
LLET160	WW-NW-CW	220V-240 AC	85	11.050	1636	3,8

*Power and Lumen values provided are based off of a "cold white (CW) LED".

C Light Color Options

WW: Warm White	3000K
NW: Natural White	4000K
CW: Cold White	6500K

*Different colors are optional

S Driver Options

- 01 Standard Driver
- 06 DALI Driver
- 11 Driver + Emergency Lighting Kit 1h
- 12 Driver + Emergency Lighting Kit 3h
- 16 Radar Sensor

J Junction Options

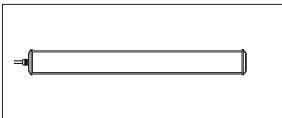


01: Cable

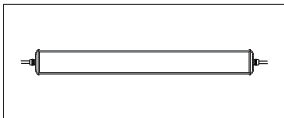


02: IP Socket

K Cable Direction Options



01: Single Entry



03: Dual end exit and entry



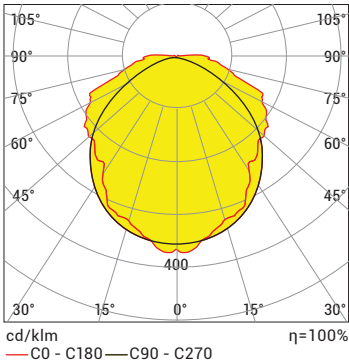
Order Code

P . W . C . S . J . K . U . M

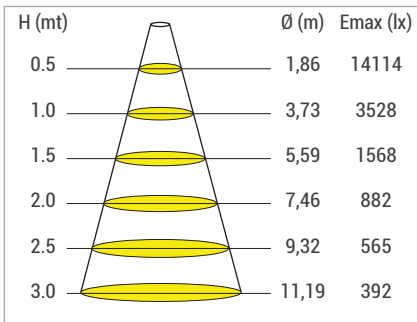


Product Diagrams

Polar Diagram



Conical Diagram



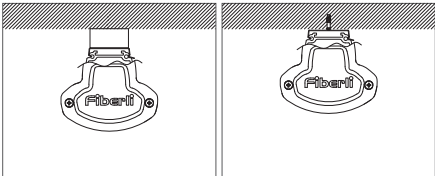
LLET 160 CW 120D 85W 220V AC IP66 TRA. COVER

U Upper Cover Options



01: Diffused 02: Transparent

M Mounting Options



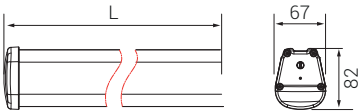
25: Pendant mount 26: Surface mount

Control System Options

	Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW							
R,G,B,A							
RGB							
RGBA/W							
RGB DMX							
WHITE DMX							



Indoor Parking Lighting



- Anodized aluminum extrusion profile body
- UV protected PVC end caps
- High efficient PMMA diffuser
- Stainless steel mounting brackets
- Hidden IP67 gland
- Optional emergency lighting kit

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Length (mm)	Weight (kg)
LLEN60-PRO	WW-NW-CW	220V-240 AC	22	3.300	624	1,1
LLEN120-PRO	WW-NW-CW	220V-240 AC	29	4.350	1224	2,0
LLEN120-PRO	WW-NW-CW	220V-240 AC	40	6.000	1224	2,0
LLEN160-PRO	WW-NW-CW	220V-240 AC	40	6.000	1624	3,5
LLEN160-PRO	WW-NW-CW	220V-240 AC	55	8.250	1624	3,5

*Power and Lumen values provided are based off of a "cold white (CW) LED".

C Light Color Options

WW: Warm White	3000K	R: Red	625nm
NW: Natural White	4000K	G: Green	525nm
CW: Cold White	6500K	B: Blue	465nm
		A: Amber	590nm

*Different colors are optional

S Driver Options

- 01 Standard Driver
- 06 DALI Driver
- 11 Driver + Emergency Lighting Kit 1h
- 12 Driver + Emergency Lighting Kit 3h

U Upper Cover Options



01: Diffused 02: Transparent



Order Code

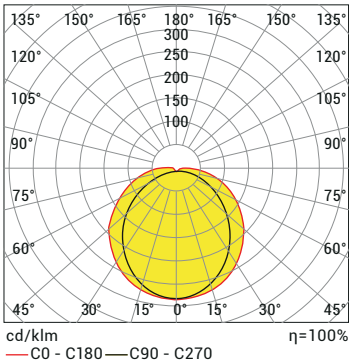
P . W . C . S . U



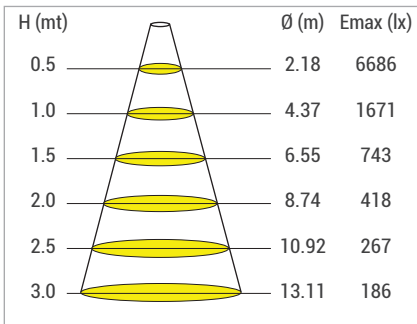
Please contact our sales representatives for special application requests other than the standard product.

Product Diagrams

Polar Diagram



Conical Diagram



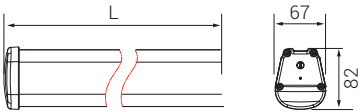
LLEN120-PRO NW40 40W 220VAC IP65

Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW				•	•	
R,G,B,A						
RGB						
RGBA/W						
RGB DMX						
WHITE DMX						



Industrial Factory Lighting



- Anodized aluminum extrusion profile body
- UV protected PVC end caps
- High efficient PMMA diffuser
- Stainless steel mounting brackets
- Hidden IP67 gland
- Optional emergency lighting kit

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Length (mm)	Weight (kg)
LLEN120-TECO	WW-NW-CW	220V-240 AC	29	3.190	1224	2,0
LLEN120-TECO	WW-NW-CW	220V-240 AC	40	4.400	1224	2,0
LLEN160-TECO	WW-NW-CW	220V-240 AC	40	4.400	1624	3,5
LLEN160-TECO	WW-NW-CW	220V-240 AC	55	6.050	1624	3,5

*Power and Lumen values provided are based off of a "cold white (CW) LED".

C Light Color Options

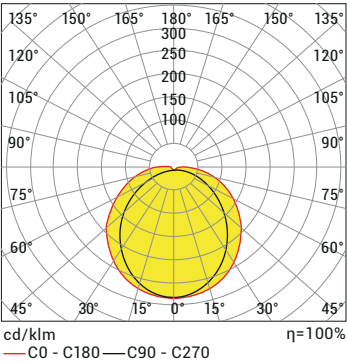
WW: Warm White	3000K
NW: Natural White	4000K
CW: Cold White	6500K

Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW						
R,G,B,A						
RGB						
RGBA/W						
RGB DMX						
WHITE DMX						

Product Diagrams

Polar Diagram



Conical Diagram

H (mt)	Ø (m)	E _{max} (lx)
0.5	2.32	6686
1.0	4.64	1671
1.5	6.97	743
2.0	9.29	418
2.5	11.61	267
3.0	13.93	186

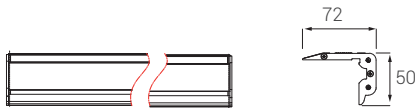
LLEN120-TECO CW65 40W 220VAC IP65



Order Code

P . W . C





- Black anodised aluminum extrusion profile
- Homogeneous light with an opaque polycarbonate tube
- Two-way lighting, top and bottom
- Rubber non-slip strip
- Surface mounting

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Fixture model	Weight (kg/mt)
LLST	WW-NW-CW	24V DC	9,6	480	Direct+Indirect	1,3
LLST	WW/A	24V DC	9,6	240	Direct+Indirect	1,3
LLST	NW/A	24V DC	9,6	240	Direct+Indirect	1,3
LLST	CW/A	24V DC	9,6	240	Direct+Indirect	1,3
LLST	R,G,B,A	24V DC	4,8	-	Direct	1,2

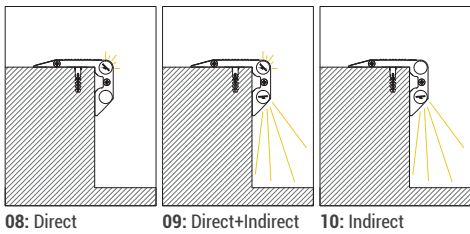
*Power and Lumen values provided are based off of a "cold white (CW) LED".

C Light Color Options

WW: Warm White 3000K	R: Red 625nm
NW: Natural White 4000K	G: Green 525nm
CW: Cold White 6500K	B: Blue 465nm
	A: Amber 590nm

*Different colors are optional

E Additional Pieces Options



Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW	•			•	•	
R,G,B,A	•			•	•	
RGB						
RGBA/W						
RGB DMX						
WHITE DMX						

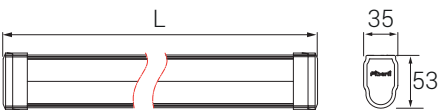


Order Code

P . W . C . E



Please contact our sales representatives for special application requests other than the standard product.



- Anodized aluminum extruded profile
- PVC end caps with increased UV resistance
- High efficiency semi-transparent or opal PC diffuser
- Stainless steel mounting clip and hanger part

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Length (L) (mm)	Weight (kg)
LLTMS60	WW-NW-CW	220-240V AC	7	915	631	0,7
LLTMS60	WW-NW-CW	220-240V AC	16	2.110	631	0,7
LLTMS120	WW-NW-CW	220-240V AC	16	2.080	1231	1,2
LLTMS120	WW-NW-CW	220-240V AC	35	4.550	1231	1,2
LLTMS160	WW-NW-CW	220-240V AC	24	3.120	1631	1,5
LLTMS160	WW-NW-CW	220-240V AC	42	5.450	1631	1,5

*Power and Lumen values provided are based off of a "cold white (CW) LED".

C Light Color Options

● WW: Warm White	3000K	● R: Red	625nm
● NW: Natural White	4000K	● G: Green	525nm
● CW: Cold White	6500K	● B: Blue	465nm
		● A: Amber	590nm

*Different colors are optional

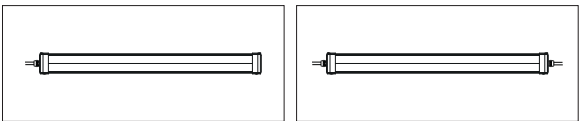
J Junction Options



01: Cable

02: IP Socket

K Cable Direction Options



01: Single Entry

03: Dual end exit and entry

U Upper Cover Options



01: Diffused

02: Transparent



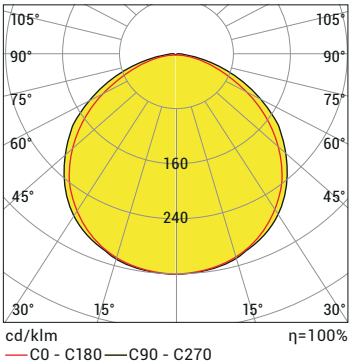
Order Code

P . W . C . J . K . U

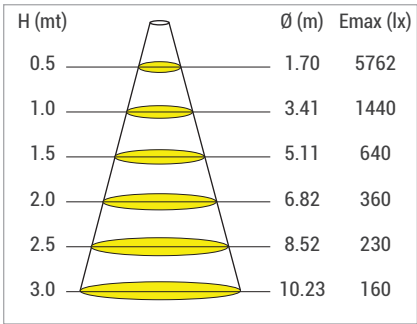


Product Diagrams

Polar Diagram



Conical Diagram

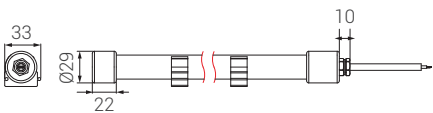


LLTMS 120 CW 35W 220V AC IP54

Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW						
R,G,B,A						
RGB						
RGBA/W						
RGB DMX						
WHITE DMX						





- UV protective diffused polycarbonate tube
- Rubber power cable
- Stainless connectors
- Insulated, PVC side cover
- Cooling capacity up to 12,6 W/m
- Suitable for surface mounting

PW Product & Power Options

Product Name/LED Quantity	Light Color	Input Voltage (V)	Power (W/mt)	Luminous Flux (lm)	Weight (kg)
LLAT30LED	WW-NW-CW	24V DC	2,4	225	0,31
LLAT30LED	WW-NW-CW	24V DC	7,2	640	0,31
LLAT45LED	WW-NW-CW	24V DC	10,8	675	0,31
LLAT60LED	WW-NW-CW	24V DC	4,8	430	0,31
LLAT90LED	WW-NW-CW	24V DC	7,2	450	0,31
LLAT30LED	RGB	24V DC	7,2	-	0,31
LLAT45LED	RGB	24V DC	10,8	-	0,31
LLAT30LED-DMX	RGB - Pixel	24V DC	8,4	-	0,31
LLAT45LED-DMX	RGB - Pixel	24V DC	12,6	-	0,31

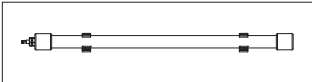
*Power and Lumen values provided are based off of a "cold white (CW) LED".

C Light Color Options

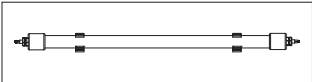
● WW: Warm White 3000K	● R: Red 625nm
● NW: Natural White 4000K	● G: Green 525nm
● CW: Cold White 6500K	● B: Blue 465nm
● RGB	● A: Amber 590nm

*Different colors are optional

K Cable Direction Options



01: Left input



03: Input and output



Order Code

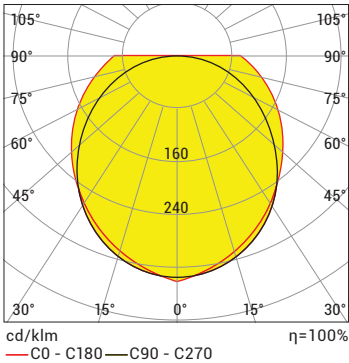
P . W . C . K



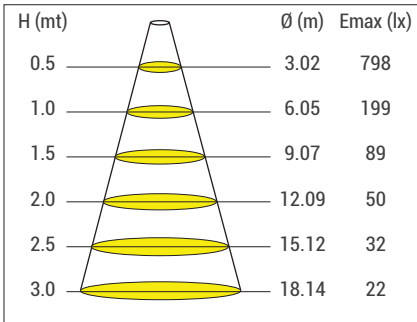
Please contact our sales representatives for special application requests other than the standard product.

Product Diagrams

Polar Diagram



Conical Diagram



LLAT 45 LED CW 120D 10.8W 24V DC IP68

Control System Options

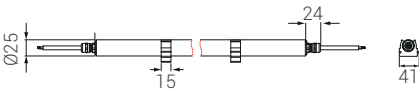
Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW 	•			•	•	
R,G,B,A 	•			•	•	
RGB 	•					
RGBA/W 	•					
RGB DMX 			•			
WHITE DMX 			•			



Stair Lighting



Pool Lighting



- Min. 20 micron anodized aluminum extruded profile
- Anodized aluminum housing
- Rubber power cable
- Stainless connectors
- Insulated, PVC side cover
- UV protective transparent tube
- Cooling capacity up to 21,6 W/m
- Suitable for surface mounting

P W Product & Power Options

Product Name/LED Quantity	Light Color	Input Voltage (V)	Power (W/mt)	Luminous Flux (lm)	Weight (kg)
LLUT30LED	WW-NW-CW	24V DC	2,4	245	0,455
LLUT30LED	WW-NW-CW	24V DC	4,8	485	0,455
LLUT45LED	WW-NW-CW	24V DC	7,2	615	0,455
LLUT45LED	WW-NW-CW	24V DC	10,8	1065	0,455
LLUT60LED	WW-NW-CW	24V DC	7,2	715	0,455
LLUT90LED	WW-NW-CW	24V DC	10,8	905	0,455
LLUT30LED	RGB	24V DC	7,2	-	0,455
LLUT45LED	RGB	24V DC	10,8	-	0,455
LLUT30LED-DMX	RGB - Pixel	24V DC	8,4	-	0,455
LLUT45LED-DMX	RGB - Pixel	24V DC	12,6	-	0,455

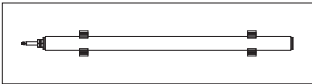
*Power and Lumen values provided are based off of a "cold white (CW) LED".

C Light Color Options

WW: Warm White 3000K	R: Red 625nm
NW: Natural White 4000K	G: Green 525nm
CW: Cold White 6500K	B: Blue 465nm
RGB	A: Amber 590nm

*Different colors are optional

K Cable Direction Options



01: Left input



03: Input and output



Order Code

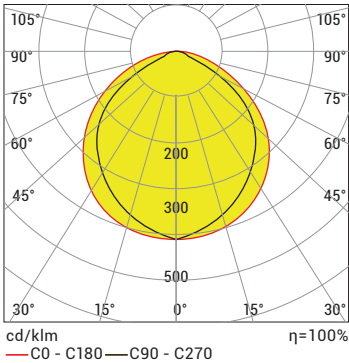
P . W . C . K



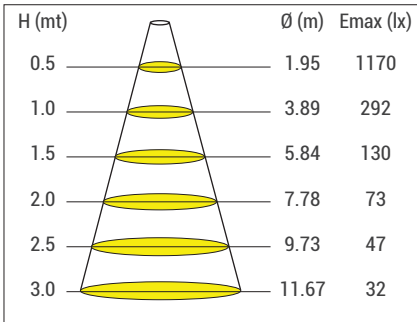
Please contact our sales representatives for special application requests other than the standard product.

Product Diagrams

Polar Diagram



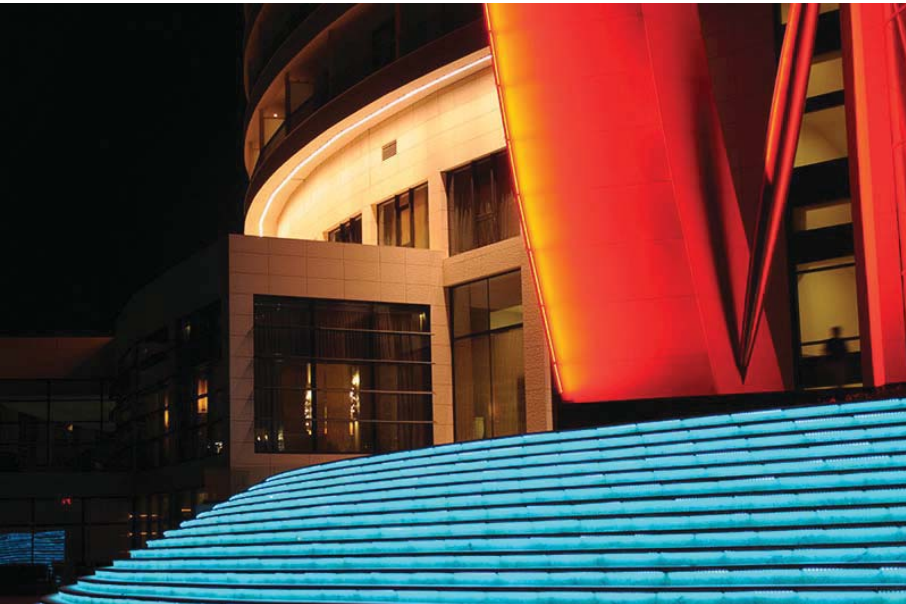
Conical Diagram



LLUT 45 LED CW 120D 10.8W 24V DCIP68

Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW	•			•	•	
R,G,B,A	•			•	•	
RGB	•					
RGBA/W	•					
RGB DMX			•			
WHITE DMX			•			

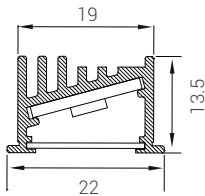
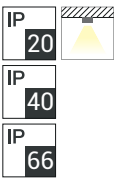


Stair Lighting



Pool Lighting





- Min. 20 micron anodized aluminum extruded profile.
- PVC side cover with UV protection
- Cooling capacity up to 36W/m
- Suitable for recessed mounting on the ceiling

P W Product & Power Options

Product Name/LED Quantity	Light Color	Input Voltage (V)	Power (W/mt)	Luminous Flux (lm)	Weight (kg)
LLMS30LED	WW-NW-CW	24V DC	2,4	245	0,31
LLMS60LED	WW-NW-CW	24V DC	4,8	480	0,31
LLMS60LED	WW-NW-CW	24V DC	7,2	720	0,31
LLMS60LED	WW-NW-CW	24V DC	24	1.775	0,31
LLMS90LED	WW-NW-CW	24V DC	36	2.520	0,31

*Power and Lumen values provided are based off of a "cold white (CW) LED".

C Light Color Options

WW: Warm White	3000K	R: Red	625nm
NW: Natural White	4000K	G: Green	525nm
CW: Cold White	6500K	B: Blue	465nm
		A: Amber	590nm

*Different colors are optional

U Upper Cover Options



0: Coverless (IP20) 01: Diffused (IP40) 02: Transparent (IP40)

I IP Protection Class



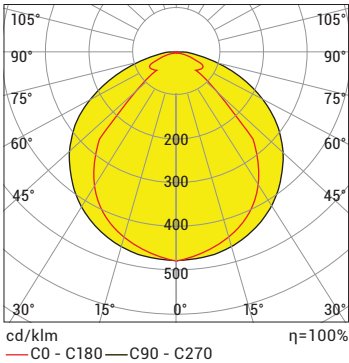
Order Code

P . W . C . U . I

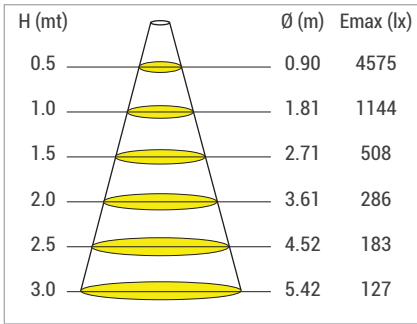


Product Diagrams

Polar Diagram



Conical Diagram



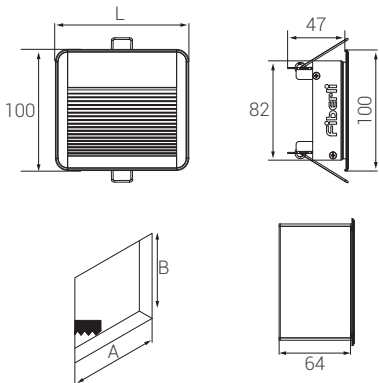
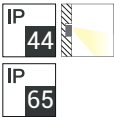
LLMS 90 LED CW 120D 36W 24V DC IP20

Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW	•			•	•	
R,G,B,A	•			•	•	
RGB						
RGBA/W						
RGB DMX						
WHITE DMX						



Interior Lighting, Antalya



- Min. 20 micron anodized aluminum extruded profile.
- PVC side cover with UV protection
- Cooling capacity up to 12 W/m
- Suitable for recessed mounting on the ceiling

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Cutting Dimensions (AxB)(mm)	Length (L) (mm)	Weight (kg)
LLGEN105	WW-NW-CW	220-240V AC	3	95	106x88	110	0,5
LLGEN170	WW-NW-CW	220-240V AC	7	200	171x88	175	0,9
LLGEN235	WW-NW-CW	220-240V AC	10	360	236x88	240	1,3
LLGEN105	WW-NW-CW	24V DC	3	95	106x88	110	0,4
LLGEN170	WW-NW-CW	24V DC	7	200	171x88	175	0,7
LLGEN235	WW-NW-CW	24V DC	10	360	236x88	240	1,1

*Power and Lumen values provided are based off of a "cold white (CW) LED".

C Light Color Options

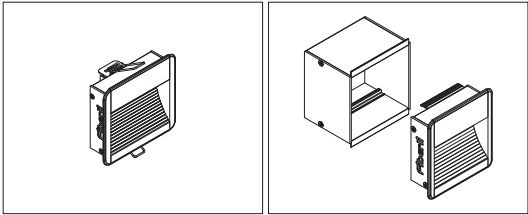
WW: Warm White	3000K
NW: Natural White	4000K
CW: Cold White	6500K

*Different colors are optional

I IP Protection Class



M Mounting Options



27: Flush Mount

28: Wall Mount



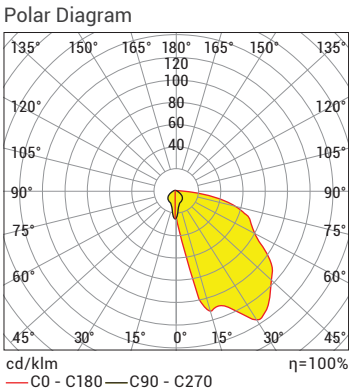
Order Code

P . W . C . I . M

Please contact our sales representatives for special application requests other than the standard product.



Product Diagrams



Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW	•			•	•	
R,G,B,A	•			•	•	
RGB	•					
RGBA/W						
RGB DMX						
WHITE DMX						





DecoPendant Luminaires

LL

DP

CD

WW

CS

CF

AC

CG

CB

HB

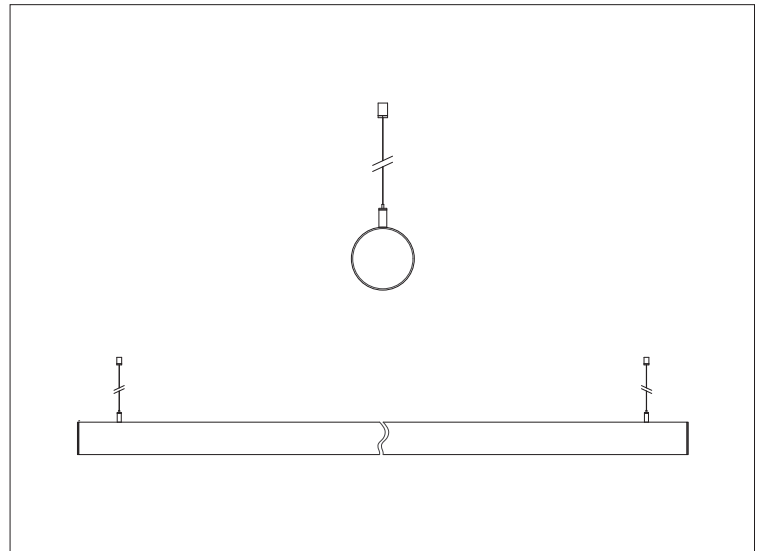
MM

RDMX

LC

FO

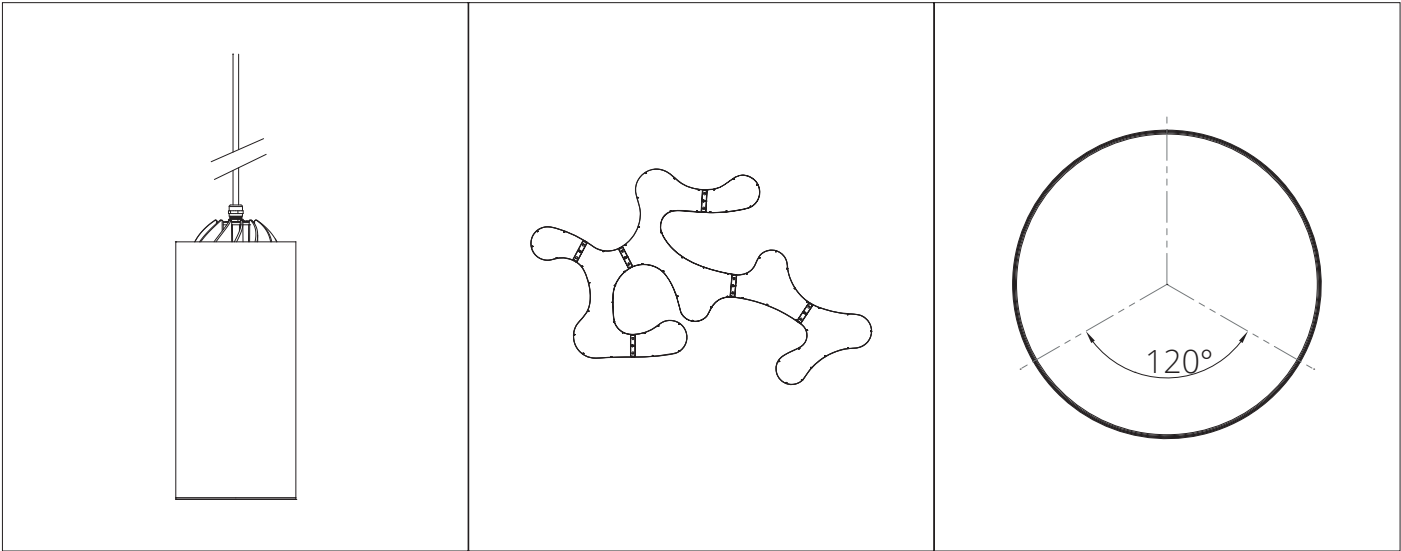
EL



DecoPendant

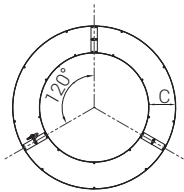
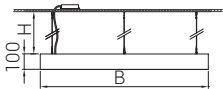
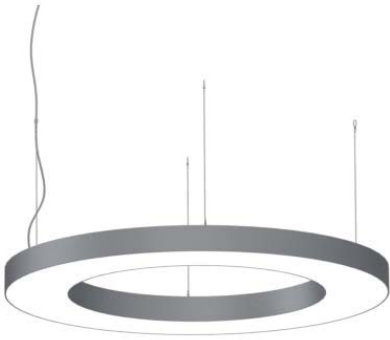
The Decopendant series offers decorative lighting solutions with its aesthetic, modern design for venues such as shopping malls, hotels, restaurants and libraries. The luminaires can be mounted as recessed on the ceiling or suspended from the ceiling. Additionally, as the luminaires can easily be applied with simple mounting brackets, they are often preferred by interior architects.

DecoPendant Luminaires



DecoPendant – Decorative Luminaires





- Min. 20 micron anodized aluminum extruded profile
- High efficient homogeneous light by plexiglas diffused cover
- Suitable for pendant mounting
- Product length standards are; 90cm, 120cm, 150cm and 180cm
- Different colors are applicable for the housing
- 1,5 m steel wire hangers are included
- The number of the hangers in the package may vary regarding the product size.

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Dimensions (BxC) (mm)	Weight (kg)
BLZ90	WW-NW-CW	24V DC	105	7.875	900x150	7,3
BLZ90	WW-NW-CW	24V DC	150	11.250	900x150	7,3
BLZ120	WW-NW-CW	24V DC	150	11.250	1200x200	9,7
BLZ120	WW-NW-CW	24V DC	200	15.000	1200x200	9,7
BLZ150	WW-NW-CW	24V DC	250	18.750	1500x250	12,2
BLZ150	WW-NW-CW	24V DC	380	28.500	1500x250	12,2
BLZ180	WW-NW-CW	24V DC	300	22.500	1800x300	14,6
BLZ180	WW-NW-CW	24V DC	440	33.000	1800x300	14,6
BLZ90	RGB	24V DC	62	-	900x150	7,3
BLZ120	RGB	24V DC	87	-	1200x200	9,7
BLZ150	RGB	24V DC	145	-	1500x250	12,2
BLZ180	RGB	24V DC	175	-	1800x300	14,6

*Power and Lumen values provided are based off of a cold white (CW) LED.

C Light Color Options

● WW: Warm White 3000K	● R: Red 625nm
● NW: Natural White 4000K	● G: Green 525nm
● CW: Cold White 6500K	● B: Blue 465nm
● RGB	● A: Amber 590nm

G Housing Color/Coating Options

01: Anodized	RAL9005	RAL9016	29: Walnut	30: Dark Walnut	31: Oak	32: Light Walnut



Order Code

P . W . C . G



Please contact our sales representatives for special application requests other than the standard product.



Algorithm Business Center, Russia

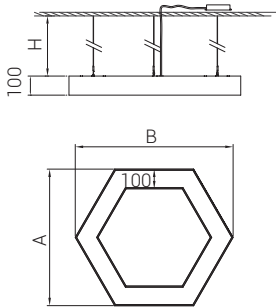
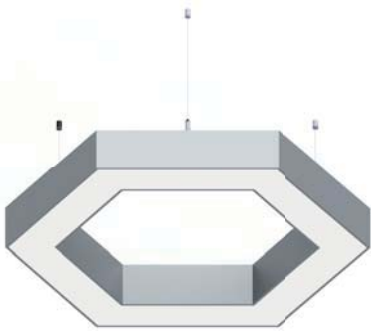
Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW 						
R,G,B,A 						
RGB 						
RGBA/W 						
RGB DMX 						
WHITE DMX 						



Biz Cevahir Hotel, İstanbul





- Min. 20 micron anodized aluminum extruded profile
- High efficient homogeneous light via plexiglas diffused cover
- Suitable for pendant mounting
- Different colors are applicable for the housing
- 1,5 m steel wire hangers are included
- The number of the hangers in the package may vary regarding the product size

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Dimensions (AxB) (mm)	Weight (kg)
BLZ Hex	WW-NW-CW	24V DC	55	4.125	700x800	7,3
BLZ Hex	WW-NW-CW	24V DC	80	6.000	700x800	7,3

*Power and Lumen values provided are based off of a cold white (CW) LED.

C Light Color Options

WW: Warm White 3000K	R: Red 625nm
NW: Natural White 4000K	G: Green 525nm
CW: Cold White 6500K	B: Blue 465nm
RGB	A: Amber 590nm

G Housing Color/Coating Options

01: Anodized RAL9005	RAL9016		29: Walnut	30: Dark Walnut	31: Oak	32: Light Walnut

Control System Options

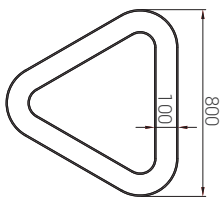
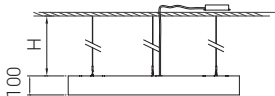
Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW	•			•	•	
R,G,B,A	•			•	•	
RGB	•					
RGBA/W	•					
RGB DMX	•					
WHITE DMX	•					



Order Code

P . W . C . G





- Min. 20 micron anodized aluminum extruded profile
- High efficient homogeneous light via plexiglas diffused cover
- Suitable for pendant mounting
- Different colors are applicable for the housing
- 1,5 m steel wire hangers are included
- The number of the hangers in the package may vary regarding the product size

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
BLZTria	WW-NW-CW	24V DC	55	4.125	4,2
BLZTria	WW-NW-CW	24V DC	80	6.000	4,2

*Power and Lumen values provided are based off of a cold white (CW) LED.

C Light Color Options

WW: Warm White 3000K	R: Red 625nm
NW: Natural White 4000K	G: Green 525nm
CW: Cold White 6500K	B: Blue 465nm
RGB	A: Amber 590nm

G Housing Color/Coating Options

01: Anodized RAL9005	RAL9016		29: Walnut	30: Dark Walnut	31: Oak	32: Light Walnut

Control System Options

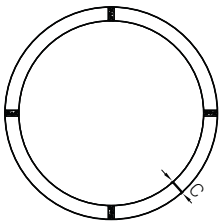
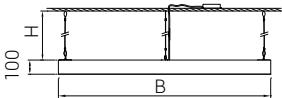
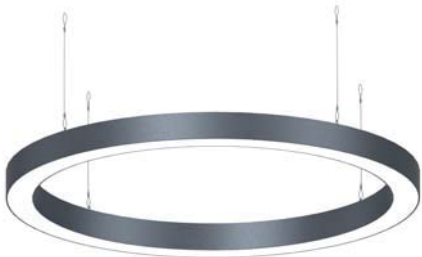
Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW	•			•	•	
R,G,B,A	•			•	•	
RGB	•					
RGBA/W	•					
RGB DMX	•					
WHITE DMX	•					



Order Code

P . W . C . G





- Min. 20 micron anodized aluminum extruded profile
- High efficient homogeneous light by plexiglas diffused cover
- Suitable for pendant mounting
- Product length standards are; 90cm, 120cm, 150cm and 180cm
- Different colors are applicable for the housing
- 1,5 m steel wire hangers are included
- The number of the hangers in the package may vary regarding the product size

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Dimensions (BxC) (mm)	Weight (kg)
BLZS90	WW-NW-CW	24V DC	60	4.500	900x100	5,7
BLZS90	WW-NW-CW	24V DC	90	6.750	900x100	5,7
BLZS120	WW-NW-CW	24V DC	85	6.375	1200x100	7,8
BLZS120	WW-NW-CW	24V DC	125	9.375	1200x100	7,8
BLZS150	WW-NW-CW	24V DC	105	7.875	1500x100	10,2
BLZS150	WW-NW-CW	24V DC	155	11.625	1500x100	10,2
BLZS180	WW-NW-CW	24V DC	130	9.750	1800x100	12,1
BLZS180	WW-NW-CW	24V DC	190	14.250	1800x100	12,1
BLZS90	RGB	24V DC	35	-	900x100	5,7
BLZS120	RGB	24V DC	50	-	1200x100	7,8
BLZS150	RGB	24V DC	60	-	1500x100	10,2
BLZS180	RGB	24V DC	75	-	1800x100	12,1

*Power and Lumen values provided are based off of a cold white (CW) LED.

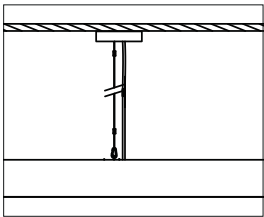
C Light Color Options

WW: Warm White 3000K	R: Red 625nm
NW: Natural White 4000K	G: Green 525nm
CW: Cold White 6500K	B: Blue 465nm
RGB	A: Amber 590nm

G Housing Color/Coating Options

01: Anodized	RAL9005	RAL9016	29: Walnut	30: Dark Walnut	31: Oak	32: Light Walnut

Mounting Accessory



Driver box
(220V LED Driver included)



Order Code

P . W . C . G





Algorithm Business Center, Russia

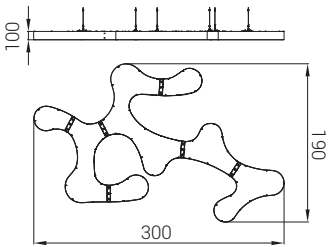
Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW 	☒	☐	☐	☒	☒	☐
R,G,B,A 	☒	☐	☐	☒	☒	☐
RGB 	☒	☐	☐	☐	☐	☐
RGBA/W 	☐	☐	☐	☐	☐	☐
RGB DMX 	☐	☐	☐	☐	☐	☐
WHITE DMX 	☐	☐	☐	☐	☐	☐



Riviera Mall, Russia





- Min. 20 micron anodized aluminum extruded profile
- High efficient homogeneous light by plexiglas diffused cover
- Suitable for pendant mounting
- Various sizes are applicable
- Different colors are applicable for the housing
- 1,5 m steel wire hangers are included
- The number of the hangers in the package may vary regarding the product size



Order Code

P . W . C . G

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
BLZ-PUZZLE	WW-NW-CW	24V DC	250	20.000	14,3
BLZ-PUZZLE	WW-NW-CW	24V DC	500	40.000	14,3

*Power and Lumen values provided are based off of a cold white (CW) LED.

C Light Color Options

WW: Warm White	3000K
NW: Natural White	4000K
CW: Cold White	6500K

G Housing Color/Coating Options

01: Anodized RAL9005	RAL9016	29: Walnut	30: Dark Walnut	31: Oak	32: Light Walnut

Control System Options

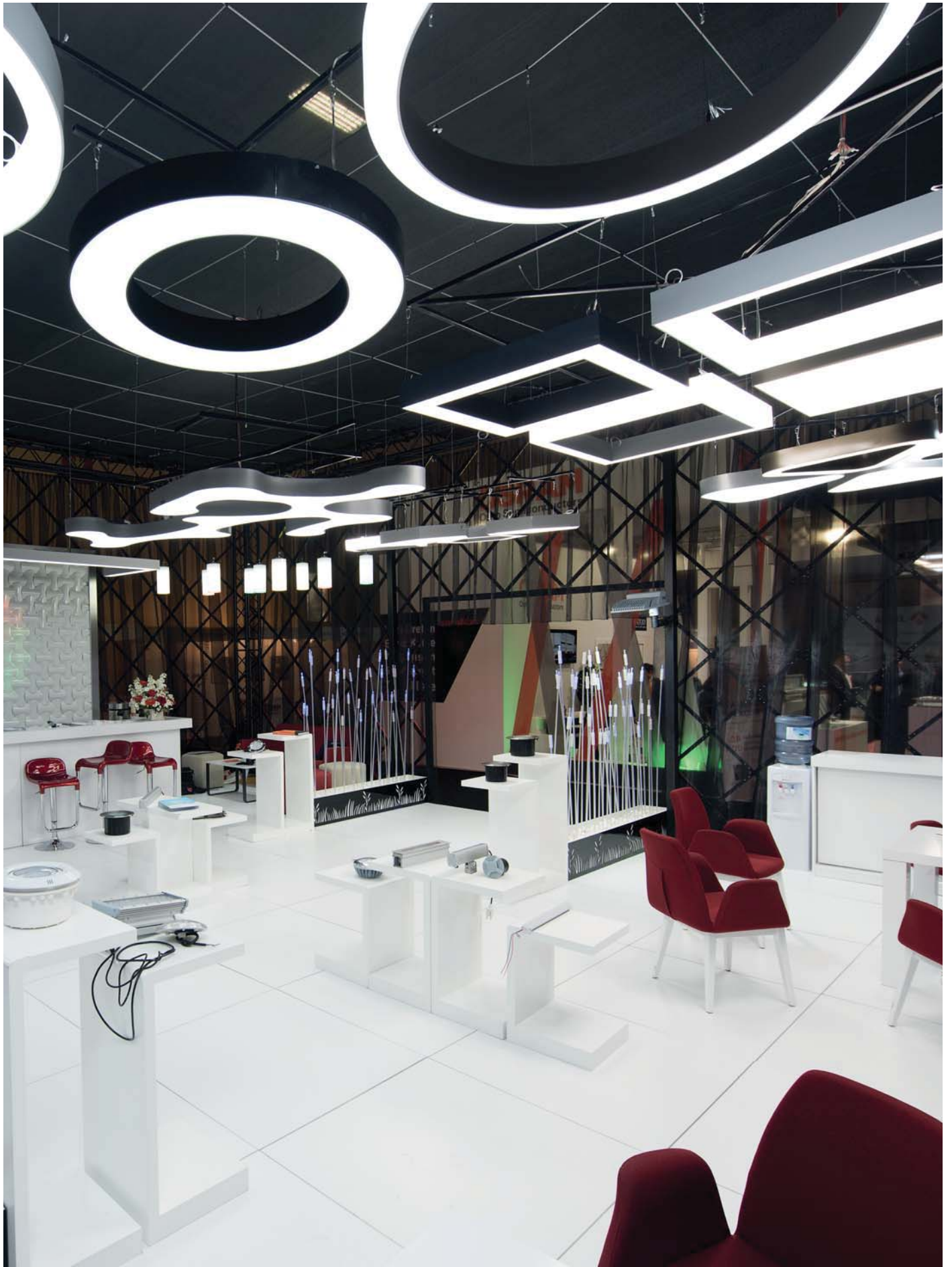
Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW	•			•	•	
R,G,B,A						
RGB						
RGBA/W						
RGB DMX						
WHITE DMX						



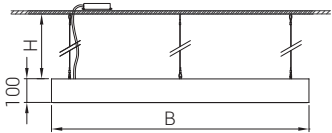
Lotus Mall, Russia



DecoPendant



Fiberli Lighting Fair Stand, İstanbul



- Min. 20 micron anodized aluminum extruded profile
- High efficient homogeneous light by plexiglas diffused cover
- Suitable for pendant/surface mounting
- Product length standards are; 90cm, 120cm, 150cm and 180cm
- 150cm and 180cm diameters PVC stretch membrane only
- Various sizes are applicable
- Plexiglas is used for the products up to 120 diameters
- 1,5 m steel wire hangers are included
- The number of the hangers in the package may vary regarding the product size

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Product Options	Luminous Flux (lm)	Diameter (B) (mm)	Weight (kg)
DRM60	WW-NW-CW	24V DC	75	Plexiglas	5.625	600	6,4
DRM60	WW-NW-CW	24V DC	100	Plexiglas	7.500	600	6,4
DRM90	WW-NW-CW	24V DC	100	Plexiglas	7.500	900	9,5
DRM120	WW-NW-CW	24V DC	100	Plexiglas	8.000	1200	12,6
DRM120	WW-NW-CW	24V DC	100	PVC stretch membrane	8.000	1200	12,6
DRM150	WW-NW-CW	24V DC	130	PVC stretch membrane	10.400	1500	11,5
DRM180	WW-NW-CW	24V DC	230	PVC stretch membrane	18.400	1800	12,6
DRM120	RGB	24V DC	100	PVC stretch membrane	-	1200	12,6
DRM150	RGB	24V DC	130	PVC stretch membrane	-	1500	11,5
DRM180	RGB	24V DC	230	PVC stretch membrane	-	1800	12,6

*Power and Lumen values provided are based off of a cold white (CW) LED.

C Light Color Options

● WW: Warm White	3000K	● R: Red	625nm
● NW: Natural White	4000K	● G: Green	525nm
● CW: Cold White	6500K	● B: Blue	465nm
● RGB		● A: Amber	590nm

G Housing Color/Coating Options

01: Anodized RAL9005	RAL9016	29: Walnut	30: Dark Walnut	31: Oak	32: Light Walnut

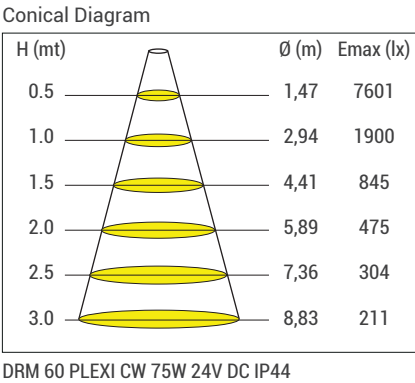
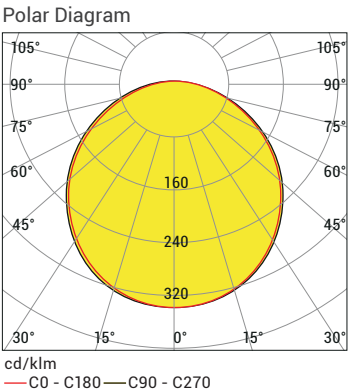


Order Code

P . W . C . G



Product Diagrams

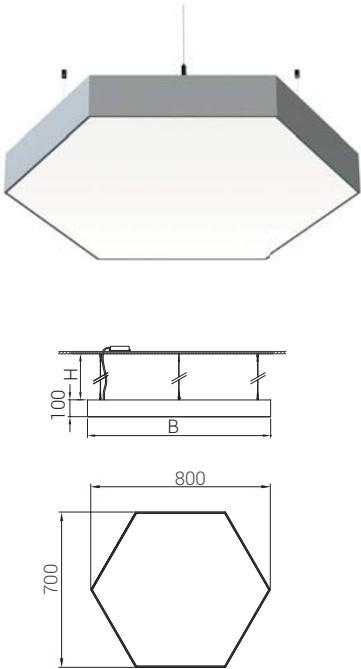


Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW	•			•	•	
R,G,B,A	•			•	•	
RGB	•					
RGBA/W						
RGB DMX						
WHITE DMX						



Family Mall, Iraq



- Min. 20 micron anodized aluminum extruded profile
- High efficient homogeneous light via plexiglas diffused cover
- Suitable for pendant mounting
- Different colors are applicable for the housing
- 1,5 m steel wire hangers are included
- The number of the hangers in the package may vary regarding the product size

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
DRM Hex	WW-NW-CW	24V DC	135	10.125	6,5

*Power and Lumen values provided are based off of a "cold white (CW) LED".

C Light Color Options

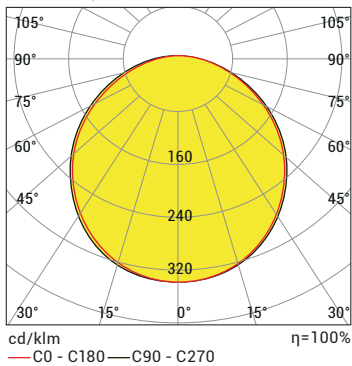
WW: Warm White 3000K	R: Red 625nm
NW: Natural White 4000K	G: Green 525nm
CW: Cold White 6500K	B: Blue 465nm
RGB	A: Amber 590nm

G Housing Color/Coating Options

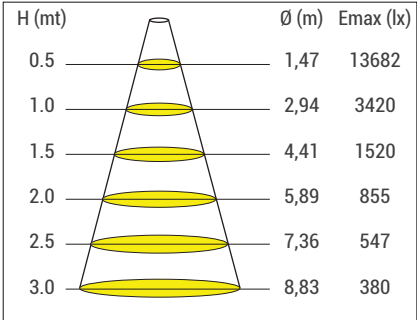
01: Anodized	RAL9005	RAL9016	29: Walnut	30: Dark Walnut	31: Oak	32: Light Walnut
--------------	---------	---------	------------	-----------------	---------	------------------

Product Diagrams

Polar Diagram



Conical Diagram



DRM HEX CW 135W 24V DC IP44

Control System Options

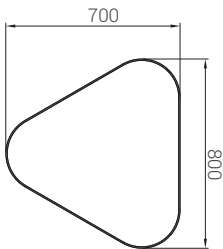
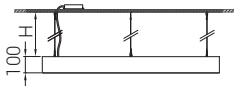
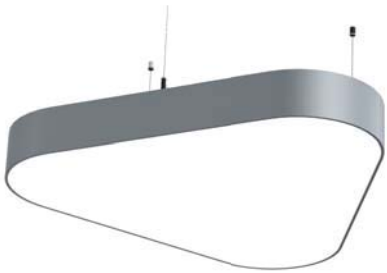
Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW	•			•	•	
R,G,B,A	•			•	•	
RGB	•					
RGBA/W	•					
RGB DMX	•					
WHITE DMX	•					



Order Code

P . W . C . G





- Min. 20 micron anodized aluminum extruded profile
- High efficient homogeneous light via plexiglas diffused cover
- Suitable for pendant/surface mounting
- Different colors are applicable for the housing
- 1,5 m steel wire hangers are included
- The number of the hangers in the package may vary regarding the product size

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
DRM Tria	WW-NW-CW	24V DC	135	10.125	7,1

*Power and Lumen values provided are based off of a "cold white (CW) LED".

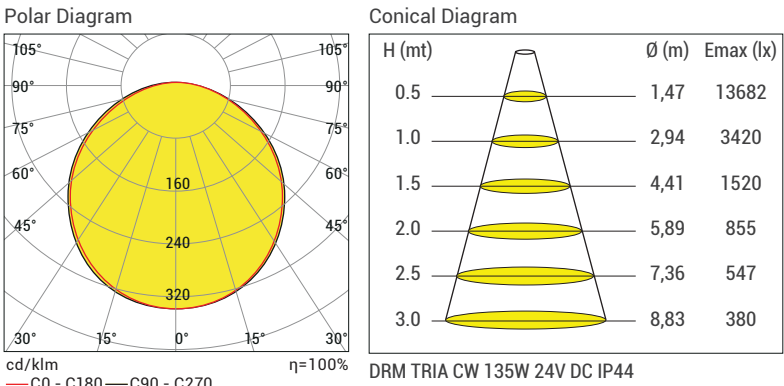
C Light Color Options

WW: Warm White 3000K	R: Red 625nm
NW: Natural White 4000K	G: Green 525nm
CW: Cold White 6500K	B: Blue 465nm
RGB	A: Amber 590nm

G Housing Color/Coating Options

01: Anodized RAL9005	RAL9016	29: Walnut	30: Dark Walnut	31: Oak	32: Light Walnut

Product Diagrams



Control System Options

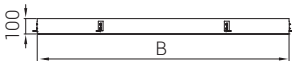
Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW	•			•	•	
R,G,B,A	•			•	•	
RGB	•					
RGBA/W						
RGB DMX						
WHITE DMX						



Order Code

P . W . C . G





- Min. 20 micron anodized aluminum extruded profile
- High efficient homogeneous light by plexiglas diffused cover
- Suitable for recess mounting
- Product length standards are; 90cm, 120cm, 150cm and 180cm
- 150cm and 180cm diameters PVC stretch membrane only
- Various sizes are applicable
- Plexiglas is used for the products up to 120cm diameters

P W Product & Power Options

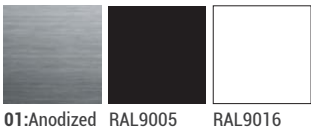
Product Name	Light Color	Input Voltage (V)	Power (W)	Product Options	Luminous Flux (lm)	Diameter (B) (cm)	Weight (kg)
DRMG50	WW-NW-CW	24V DC	50	Plexiglas	3.750	50	6,2
DRMG60	WW-NW-CW	24V DC	75	Plexiglas	5.625	60	6,4
DRMG60	WW-NW-CW	24V DC	100	Plexiglas	7.500	60	6,4
DRMG90	WW-NW-CW	24V DC	50	Plexiglas	3.750	90	9,5
DRMG90	WW-NW-CW	24V DC	100	Plexiglas	7.500	90	9,5
DRMG120	WW-NW-CW	24V DC	100	Plexiglas	8.000	120	12,6
DRMG120	WW-NW-CW	24V DC	100	PVC stretch membrane	8.000	120	12,6
DRMG150	WW-NW-CW	24V DC	130	PVC stretch membrane	10.400	150	11,5
DRMG150	WW-NW-CW	24V DC	260	PVC stretch membrane	20.800	150	11,5
DRMG180	WW-NW-CW	24V DC	200	PVC stretch membrane	16.000	180	12,6
DRMG180	WW-NW-CW	24V DC	400	PVC stretch membrane	32.000	180	12,6

*Power and Lumen values provided are based off of a cold white (CW) LED.

C Light Color Options

WW: Warm White 3000K	R: Red 625nm
NW: Natural White 4000K	G: Green 525nm
CW: Cold White 6500K	B: Blue 465nm
RGB	A: Amber 590nm

G Housing Color/Coating Options



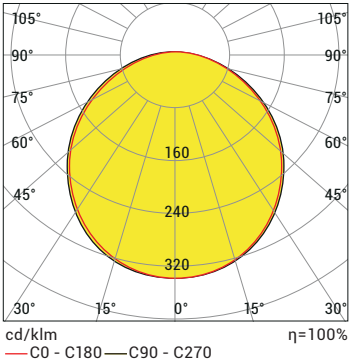
Order Code

P . W . C . G

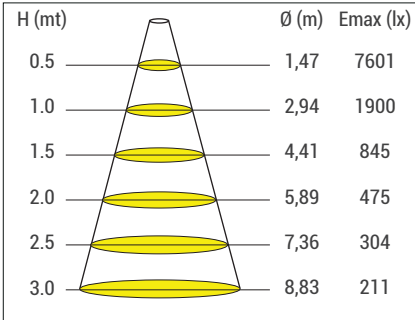


Product Diagrams

Polar Diagram



Conical Diagram



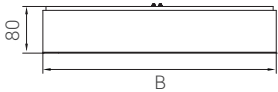
DRMG 50 PLEXI CW 50W 24V DC IP44

Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW	•			•	•	
R,G,B,A	•			•	•	
RGB	•					
RGBA/W						
RGB DMX						
WHITE DMX						



Lotus Mall, Russia



- Electrostatic powder coating or anodized aluminum housing
- High efficient homogeneous light by plexy glass diffused cover
- Suitable for surface mounting
- Plexiglas is used for the products up to 100 diameters
- 120cm, 150cm and 180cm PVC diameters stretch membrane

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Product Options	Luminous Flux (lm)	Diameter (B) (mm)	Weight (kg)
DRMSM30	WW-NW-CW	24V DC	20	Plexiglas	1.500	300	3,8
DRMSM40	WW-NW-CW	24V DC	40	Plexiglas	3.000	400	4,2
DRMSM50	WW-NW-CW	24V DC	60	Plexiglas	4.500	500	5,3
DRMSM60	WW-NW-CW	24V DC	80	Plexiglas	6.000	600	6,4
DRMSM70	WW-NW-CW	24V DC	110	Plexiglas	10.125	700	7,5
DRMSM90	WW-NW-CW	24V DC	145	Plexiglas	10.875	900	9,5
DRMSM90	WW-NW-CW	24V DC	100	PVC stretch membrane	8.000	900	9,5
DRMSM120	WW-NW-CW	24V DC	100	PVC stretch membrane	8.000	1200	12,6
DRMSM120	WW-NW-CW	24V DC	200	PVC stretch membrane	16.000	1200	12,6
DRMSM150	WW-NW-CW	24V DC	130	PVC stretch membrane	10.400	1500	15,8
DRMSM180	WW-NW-CW	24V DC	2000	PVC stretch membrane	16.000	1800	18,9

*Power and Lumen values provided are based off of a cold white (CW) LED.

C Light Color Options

WW: Warm White 3000K	R: Red 625nm
NW: Natural White 4000K	G: Green 525nm
CW: Cold White 6500K	B: Blue 465nm
RGB	A: Amber 590nm

G Housing Color/Coating Options

01: Anodized RAL9005	RAL9016	29: Walnut*	30: Dark* Walnut	31: Oak*	32: Light* Walnut

*Only for PVC stretch membrane



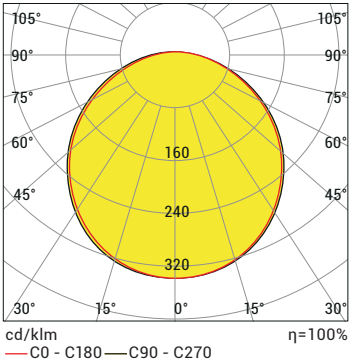
Order Code

P . W . C . G

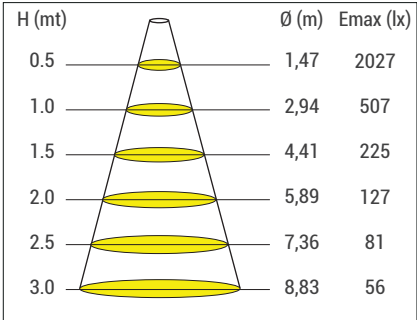


Product Diagrams

Polar Diagram



Conical Diagram



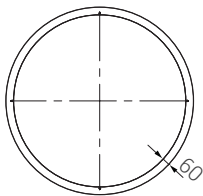
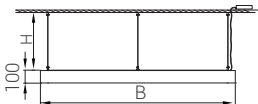
DRMS 30 PLEXI CW 20W 24V DC IP44

Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW 	☒	☐	☐	☒	☒	☐
R,G,B,A 	☒	☐	☐	☒	☒	☐
RGB 	☒	☐	☐	☐	☐	☐
RGBA/W 	☐	☐	☐	☐	☐	☐
RGB DMX 	☐	☐	☐	☐	☐	☐
WHITE DMX 	☐	☐	☐	☐	☐	☐



Libya



- Min. 20 micron anodized aluminum extruded profile
- High efficient homogeneous light by plexiglas diffused cover
- Suitable for pendant mounting
- Product length standards are; 90cm, 120cm, 150cm and 180cm
- Different colors are applicable for the housing
- 1,5 m steel wire hangers are included
- The number of the hangers in the package may vary regarding the product size

P W Product & Power Options

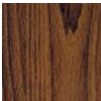
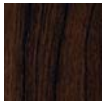
Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Diameter (B) (mm)	Weight (kg)
YZKd90	WW-NW-CW	24V DC	40	3.000	900	4,7
YZKd90	WW-NW-CW	24V DC	80	6.000	900	4,7
YZKd120	WW-NW-CW	24V DC	60	4.500	1200	6,2
YZKd120	WW-NW-CW	24V DC	120	9.000	1200	6,2
YZKd150	WW-NW-CW	24V DC	75	5.625	1500	7,8
YZKd150	WW-NW-CW	24V DC	150	11.250	1500	7,8
YZKd180	WW-NW-CW	24V DC	90	6.750	1800	9,3
YZKd180	WW-NW-CW	24V DC	180	13.500	1800	9,3

*Power and Lumen values provided are based off of a cold white (CW) LED.

C Light Color Options

- WW: Warm White 3000K
- NW: Natural White 4000K
- CW: Cold White 6500K

G Housing Color/Coating Options



01: Anodized

RAL9005

RAL9016

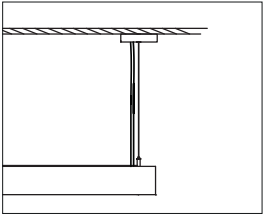
29: Walnut

30: Dark Walnut

31: Oak

32: Light Walnut

Mounting Accessory



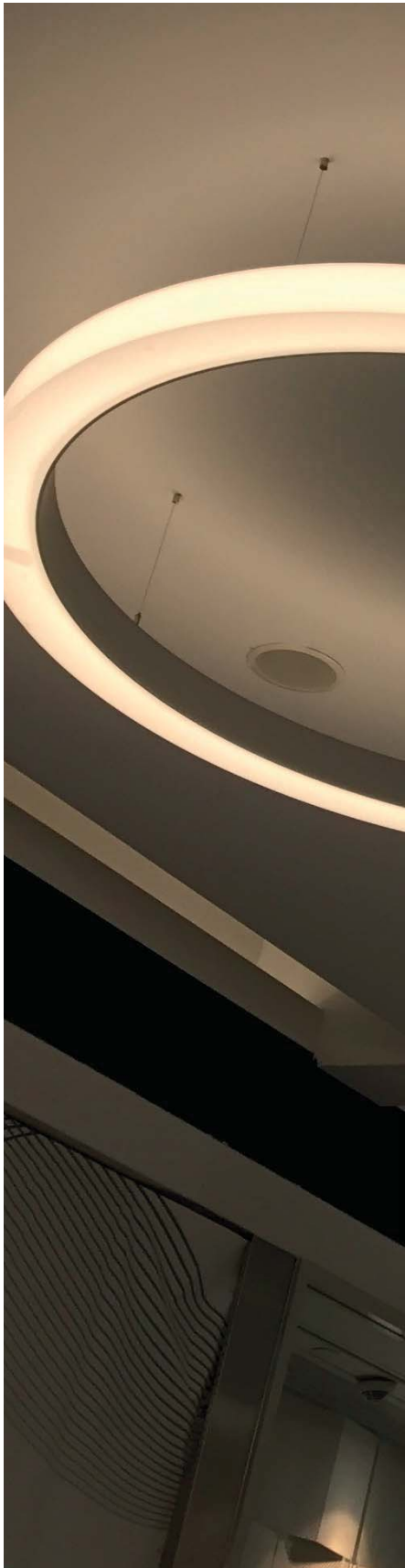
Driver box
(220V LED Driver included)



Order Code

P . W . C . G



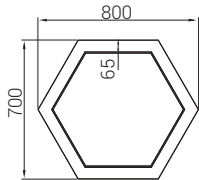
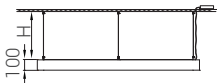


Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW 	•			•	•	
DW 	•			•	•	
R,G,B,A 	•			•	•	
RGB 	•			•	•	
RGBA/W 						
RGB DMX 			•			
WHITE DMX 			•			



Riviera Mall, Russia



- Min. 20 micron anodized aluminum extruded profile
- High efficient homogeneous light by plexiglas diffused cover
- Suitable for pendant mounting
- Different colors are applicable for the housing
- 1,5 m steel wire hangers are included
- The number of the hangers in the package may vary regarding the product size

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
YZKdHex	WW-NW-CW	24V DC	80	6.000	3,7

*Power and Lumen values provided are based off of a cold white (CW) LED.

C Light Color Options

● WW: Warm White	3000K
● NW: Natural White	4000K
● CW: Cold White	6500K

G Housing Color/Coating Options

01: Anodized	RAL9005	RAL9016	29: Walnut	30: Dark Walnut	31: Oak	32: Light Walnut

Control System Options

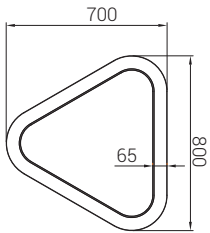
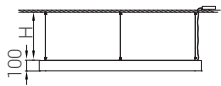
Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW	●			●	●	
R,G,B,A						
RGB						
RGBA/W						
RGB DMX						
WHITE DMX						



Order Code

P . W . C . G





- Min. 20 micron anodized aluminum extruded profile
- High efficient homogeneous light by plexiglas diffused cover
- Suitable for pendant mounting
- Different colors are applicable for the housing
- 1,5 m steel wire hangers are included
- The number of the hangers in the package may vary regarding the product size

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
YZKd Tria	WW-NW-CW	24V DC	86	6.450	3
YZKd Tria	WW-NW-CW	24V DC	48	3.600	3

*Power and Lumen values provided are based off of a cold white (CW) LED.

C Light Color Options

WW: Warm White	3000K
NW: Natural White	4000K
CW: Cold White	6500K

G Housing Color/Coating Options

01: Anodized	RAL9005	RAL9016	29: Walnut	30: Dark Walnut	31: Oak	32: Light Walnut

Control System Options

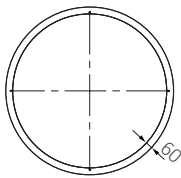
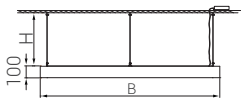
Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW	•			•	•	
R,G,B,A						
RGB						
RGBA/W						
RGB DMX						
WHITE DMX						



Order Code

P . W . C . G





- Min. 20 micron anodized aluminum extruded profile
- High efficient homogeneous light by plexiglas diffused cover
- Suitable for pendant mounting
- Product length standards are; 90cm, 120cm, 150cm and 180cm
- Different colors are applicable for the housing
- 1,5 m steel wire hangers are included
- The number of the hangers in the package may vary regarding the product size

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Diameter (B) (mm)	Weight (kg)
YZKi90	WW-NW-CW	24V DC	50	3.750	900	4,5
YZKi90	WW-NW-CW	24V DC	100	7.500	900	4,5
YZKi120	WW-NW-CW	24V DC	65	4.875	1200	6,4
YZKi120	WW-NW-CW	24V DC	130	9.750	1200	6,4
YZKi150	WW-NW-CW	24V DC	80	6.000	1500	8,3
YZKi150	WW-NW-CW	24V DC	160	12.000	1500	8,3
YZKi180	WW-NW-CW	24V DC	95	7.125	1800	10,2
YZKi180	WW-NW-CW	24V DC	180	13.500	1800	10,2

*Power and Lumen values provided are based off of a cold white (CW) LED.

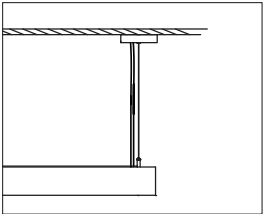
C Light Color Options

● WW: Warm White	3000K
● NW: Natural White	4000K
● CW: Cold White	6500K

G Housing Color/Coating Options

01: Anodized	RAL9005	RAL9016	29: Walnut	30: Dark Walnut	31: Oak	32: Light Walnut

Mounting Accessory



Driver box
(220V LED Driver included)



Order Code

P . W . C . G

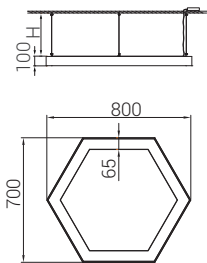
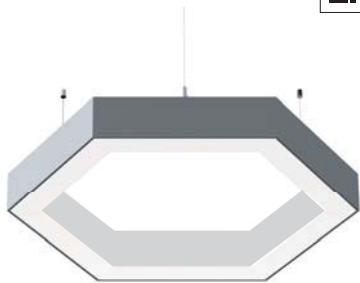


Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW 	•			•	•	
R,G,B,A 	•			•	•	
RGB 	•			•	•	
RGBA/W 						
RGB DMX 			•			
WHITE DMX 			•			



Riviera Mall, Russia



- Min. 20 micron anodized aluminum extruded profile
- High efficient homogeneous light by plexiglas diffused cover
- Suitable for pendant mounting
- Different colors are applicable for the housing
- 1,5 m steel wire hangers are included
- The number of the hangers in the package may vary regarding the product size

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
YZKi Hex	WW-NW-CW	24V DC	80	6.000	3,7

*Power and Lumen values provided are based off of a cold white (CW) LED.

C Light Color Options

● WW: Warm White	3000K
● NW: Natural White	4000K
● CW: Cold White	6500K

G Housing Color/Coating Options

01: Anodized	RAL9005	RAL9016	29: Walnut	30: Dark Walnut	31: Oak	32: Light Walnut

Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW	●			●	●	
R,G,B,A						
RGB						
RGBA/W						
RGB DMX						
WHITE DMX						

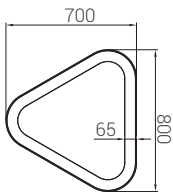
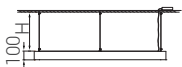
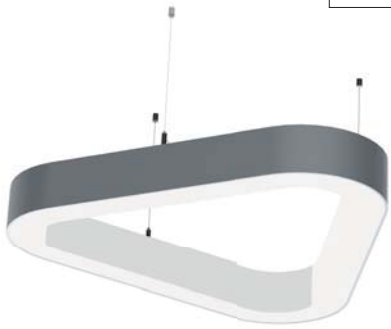


Order Code

P . W . C . G



Please contact our sales representatives for special application requests other than the standard product.



- Min. 20 micron anodized aluminum extruded profile
- High efficient homogeneous light by plexiglas diffused cover
- Suitable for pendant/surface mounting
- Different colors are applicable for the housing
- 1,5 m steel wire hangers are included
- The number of the hangers in the package may vary regarding the product size

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
YZKi Tria	WW-NW-CW	24V DC	45	3.375	2,9
YZKi Tria	WW-NW-CW	24V DC	90	6.750	2,9

*Power and Lumen values provided are based off of a cold white (CW) LED.

C Light Color Options

WW: Warm White	3000K
NW: Natural White	4000K
CW: Cold White	6500K

G Housing Color/Coating Options

01: Anodized	RAL9005	RAL9016	29: Walnut	30: Dark Walnut	31: Oak	32: Light Walnut

Control System Options

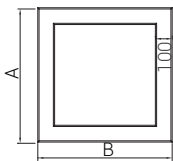
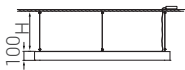
Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW	•			•	•	
R,G,B,A	••••					
RGB	•••					
RGBA/W	•••••					
RGB DMX	•••					
WHITE DMX	••					



Order Code

P . W . C . G





- Min. 20 micron anodized aluminum extruded profile
- High efficient homogeneous light by plexiglas diffused cover
- Suitable for pendant/surface mounting
- Product length standards are; 90cm, 120cm, 150cm and 180cm
- Different sizes are applicable
- Different colors are applicable for the housing
- 1,5 m steel wire hangers are included
- The number of the hangers in the package may vary regarding the product size

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Measurements (AxB) (mm)	Weight (kg)
QDR6060	WW-NW-CW	24V DC	48	3.600	600x600	5,1
QDR6060	WW-NW-CW	24V DC	72	5.400	600x600	5,1
QDR9090	WW-NW-CW	24V DC	68	5.100	900x900	8,2
QDR9090	WW-NW-CW	24V DC	100	7.500	900x900	8,2
QDR120120	WW-NW-CW	24V DC	105	7.875	1200x1200	10,5
QDR120120	WW-NW-CW	24V DC	160	12.000	1200x1200	10,5
QDR150150	WW-NW-CW	24V DC	135	10.125	1500x1500	12,5
QDR150150	WW-NW-CW	24V DC	200	15.000	1500x1500	12,5
QDR180180	WW-NW-CW	24V DC	163	12.225	1800x1800	15,5
QDR180180	WW-NW-CW	24V DC	245	18.375	1800x1800	15,5

*Power and Lumen values provided are based off of a cold white (CW) LED.

C Light Color Options

WW: Warm White	3000K	R: Red	625nm	RGB
NW: Natural White	4000K	G: Green	525nm	RGBW
CW: Cold White	6500K	B: Blue	465nm	RGBW
		A: Amber	590nm	RGBA

G Housing Color/Coating Options

01: Anodized	RAL9005	RAL9016	29: Walnut	30: Dark Walnut	31: Oak	32: Light Walnut



Order Code

P . W . C . G



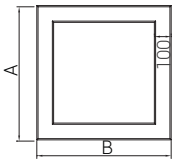
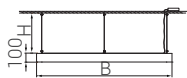
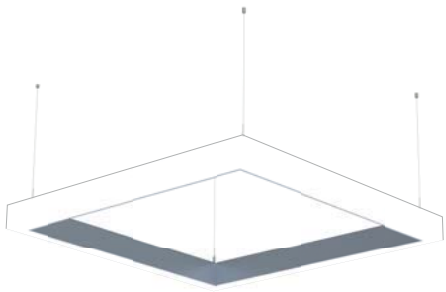


Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW	•			•	•	
R,G,B,A	•			•	•	
RGB	•					
RGBA/W	•					
RGB DMX			•			
WHITE DMX			•			



Fiberli, Antalya



- Min. 20 micron anodized aluminum extruded profile
- High efficient homogeneous light by plexiglas diffused cover
- Suitable for pendant/surface mounting
- Product length standards are; 90cm, 120cm, 150cm and 180cm
- Different sizes are applicable
- Different colors are applicable for the housing
- 1,5 m steel wire hangers are included
- The number of the hangers in the package may vary regarding the product size

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Measurements (AxB) (mm)	Weight (kg)
QDRd6060	WW-NW-CW	24V DC	48	3.600	600x600	5,1
QDRd6060	WW-NW-CW	24V DC	72	5.400	600x600	5,1
QDRd9090	WW-NW-CW	24V DC	68	5.100	900x900	8,2
QDRd9090	WW-NW-CW	24V DC	100	7.500	900x900	8,2
QDRd120120	WW-NW-CW	24V DC	105	7.875	1200x1200	10,5
QDRd120120	WW-NW-CW	24V DC	160	12.000	1200x1200	10,5
QDRd150150	WW-NW-CW	24V DC	135	10.125	1500x1500	12,5
QDRd150150	WW-NW-CW	24V DC	200	15.000	1500x1500	12,5
QDRd180180	WW-NW-CW	24V DC	163	12.225	1800x1800	15,5
QDRd180180	WW-NW-CW	24V DC	245	18.375	1800x1800	15,5

*Power and Lumen values provided are based off of a cold white (CW) LED.

C Light Color Options

WW: Warm White	3000K	R: Red	625nm	RGB
NW: Natural White	4000K	G: Green	525nm	RGBW
CW: Cold White	6500K	B: Blue	465nm	RGBW
		A: Amber	590nm	RGBA

G Housing Color/Coating Options

01: Anodized	RAL9005	RAL9016	29: Walnut	30: Dark Walnut	31: Oak	32: Light Walnut

Control System Options

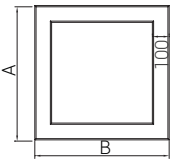
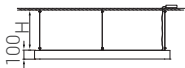
Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW	•			•	•	
R,G,B,A	•			•	•	
RGB	•					
RGBA/W	•					
RGB DMX			•			
WHITE DMX			•			



Order Code

P . W . C . G





- Min. 20 micron anodized aluminum extruded profile
- High efficient homogeneous light by plexiglas diffused cover
- Suitable for pendant/surface mounting
- Product length standards are; 90cm, 120cm, 150cm and 180cm
- Different sizes are applicable
- Different colors are applicable for the housing
- 1,5 m steel wire hangers are included
- The number of the hangers in the package may vary regarding the product size

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Measurements (AxB) (mm)	Weight (kg)
QDRi6060	WW-NW-CW	24V DC	48	3.600	600x600	5,1
QDRi6060	WW-NW-CW	24V DC	72	5.400	600x600	5,1
QDRi9090	WW-NW-CW	24V DC	68	5.100	900x900	8,2
QDRi9090	WW-NW-CW	24V DC	100	7.500	900x900	8,2
QDRi120120	WW-NW-CW	24V DC	105	7.875	1200x1200	10,5
QDRi120120	WW-NW-CW	24V DC	160	12.000	1200x1200	10,5
QDRi150150	WW-NW-CW	24V DC	135	10.125	1500x1500	12,5
QDRi150150	WW-NW-CW	24V DC	200	15.000	1500x1500	12,5
QDRi180180	WW-NW-CW	24V DC	163	12.225	1800x1800	15,5
QDRi180180	WW-NW-CW	24V DC	245	18.375	1800x1800	15,5

*Power and Lumen values provided are based off of a cold white (CW) LED.

C Light Color Options

● WW: Warm White	3000K	● R: Red	625nm	● ● ● RGB
● NW: Natural White	4000K	● G: Green	525nm	● ● ● RGBW
● CW: Cold White	6500K	● B: Blue	465nm	● ● ● RGBW
		● A: Amber	590nm	● ● ● RGBW

G Housing Color/Coating Options

01: Anodized RAL9005	RAL9016	29: Walnut	30: Dark Walnut	31: Oak	32: Light Walnut

Control System Options

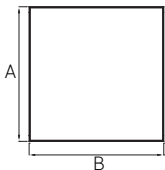
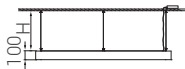
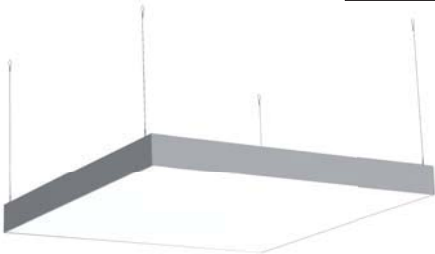
Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW	●			●	●	
R,G,B,A	●			●	●	
RGB	●					
RGBA/W	●					
RGB DMX			●			
WHITE DMX			●			



Order Code

P . W . C . G





- Min. 20 micron anodized aluminum extruded profile
- High efficient homogeneous light by plexiglas diffused cover
- Suitable for pendant/surface mounting
- Different colors are applicable for the housing
- 1,5 m steel wire hangers are included
- The number of the hangers in the package may vary regarding the product size

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Measurements (AxB) (mm)	Weight (kg)
QDR ² 6060	WW-NW-CW	24V DC	24	1.800	600x600	6,3
QDR ² 6060	WW-NW-CW	24V DC	64	4.800	600x600	6,3
QDR ² 60120	WW-NW-CW	24V DC	128	9.600	600x1200	11,2
QDR ² 60120	WW-NW-CW	24V DC	202	15.150	600x1200	11,2
QDR ² 120120	WW-NW-CW	24V DC	300	22.500	1200x1200	10,8

*Power and Lumen values provided are based off of a cold white (CW) LED.

C Light Color Options

WW: Warm White	3000K
NW: Natural White	4000K
CW: Cold White	6500K

G Housing Color/Coating Options

01: Anodized	RAL9005	RAL9016	29: Walnut	30: Dark Walnut	31: Oak	32: Light Walnut

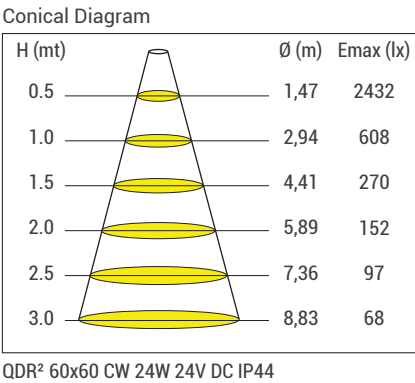
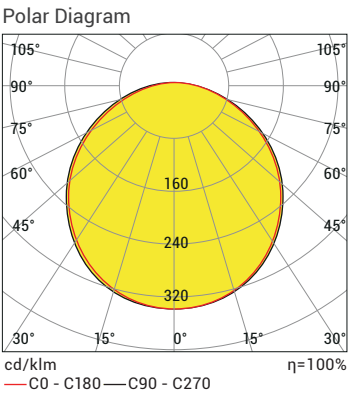


Order Code

P . W . C . G



Product Diagrams

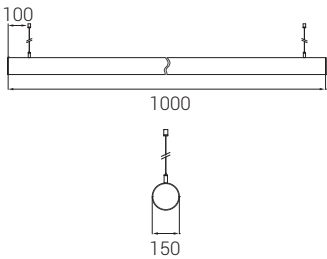


Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW	•			•	•	
R,G,B,A						
RGB						
RGBA/W						
RGB DMX						
WHITE DMX						



Showroom, Antalya



- UV protective polycarbonate housing
- Plexiglas side cover
- Suitable for pendant mounting
- Each piece can be produced at a max. length of 2m

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
LLT15-60LED	WW-NW-CW	24V DC	24	1.800	3,5
LLT15-90LED	WW-NW-CW	24V DC	36	2.700	3,5

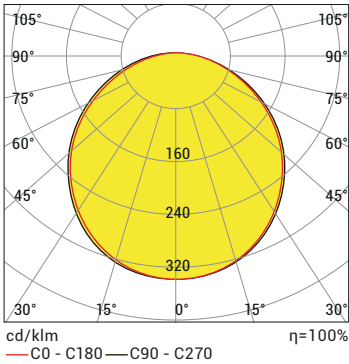
*Power and Lumen values provided are based off of a cold white (CW) LED.
** 1,5 m steel wire hangers are included.

C Light Color Options

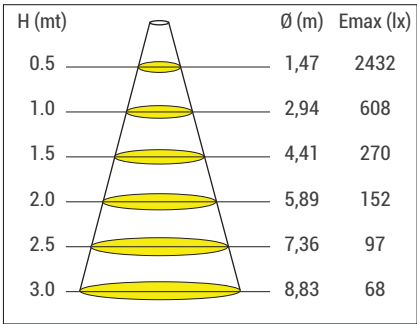
WW: Warm White	3000K	R: Red	625nm	RGB
NW: Natural White	4000K	G: Green	525nm	RGBW
CW: Cold White	6500K	B: Blue	465nm	RGBA
		A: Amber	590nm	RGBA

Product Diagrams

Polar Diagram



Conical Diagram



LLT15 60 LED CW 24W 24V DC IP44

Control System Options

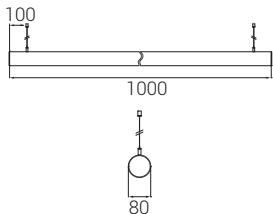
Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW	•			•	•	
R,G,B,A	•			•	•	
RGB	•					
RGBA/W	•					
RGB DMX			•			
WHITE DMX			•			



Order Code

P . W . C





- UV protective polycarbonate housing
- Plexiglas side cover
- Suitable for pendant mounting
- Each piece can be produced at a max. length of 2m

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
LLT8-60LED	WW-NW-CW	24V DC	18	1.350	3,3
LLT8-90LED	WW-NW-CW	24V DC	24	1.800	3,3

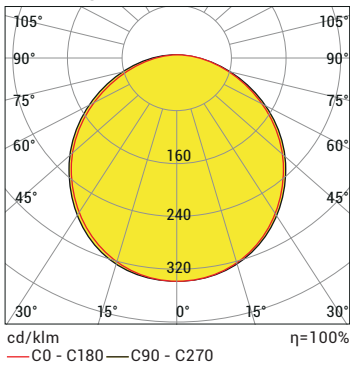
*Power and Lumen values provided are based off of a cold white (CW) LED.
** 1,5 m steel wire hangers are included.

C Light Color Options

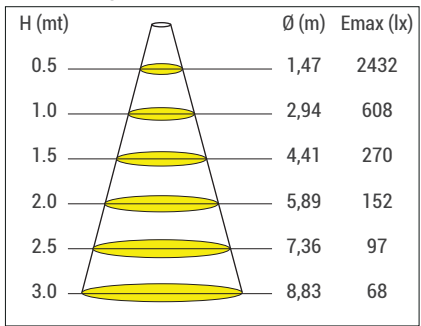
WW: Warm White 3000K	R: Red 625nm	RGB
NW: Natural White 4000K	G: Green 525nm	RGBW
CW: Cold White 6500K	B: Blue 465nm	RGBW
	A: Amber 590nm	RGBA

Product Diagrams

Polar Diagram



Conical Diagram



LLT8 60 LED CW 24W 24V DC IP44

Control System Options

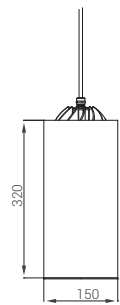
Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW	•			•	•	
R,G,B,A	•			•	•	
RGB	•					
RGBA/W	•					
RGB DMX			•			
WHITE DMX			•			



Order Code

P . W . C





- Electrostatic powder coated aluminum injection housing
- UV protective polycarbonate body
- Suitable for pendant mounting

P W Product & Power Options

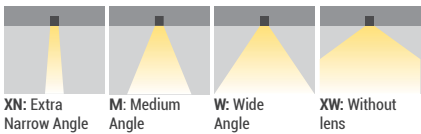
Product Name Led Quantity (qty/m)	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
Beehive	WW-NW-CW	220-240V AC	12	900	4,3
Beehive	WW-NW-CW	220-240V AC	17	1.275	4,3

*Power and Lumen values provided are based off of a "cold white (CW) LED".

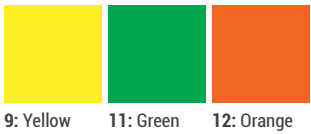
C Light Color Options

WW: Warm White 3000K	R: Red 625nm
NW: Natural White 4000K	G: Green 525nm
CW: Cold White 6500K	B: Blue 465nm
RGB	A: Amber 590nm

O Lens Options



U Upper Piece Options

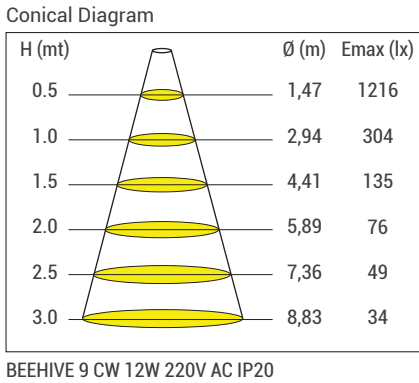
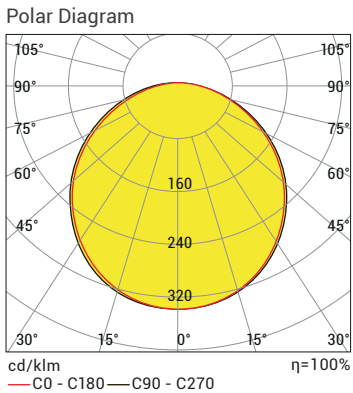


Order Code

P . W . C . O . U



Product Diagrams



Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW	•			•	•	
R,G,B,A	•			•	•	
RGB						
RGBA/W						
RGB DMX						
WHITE DMX						

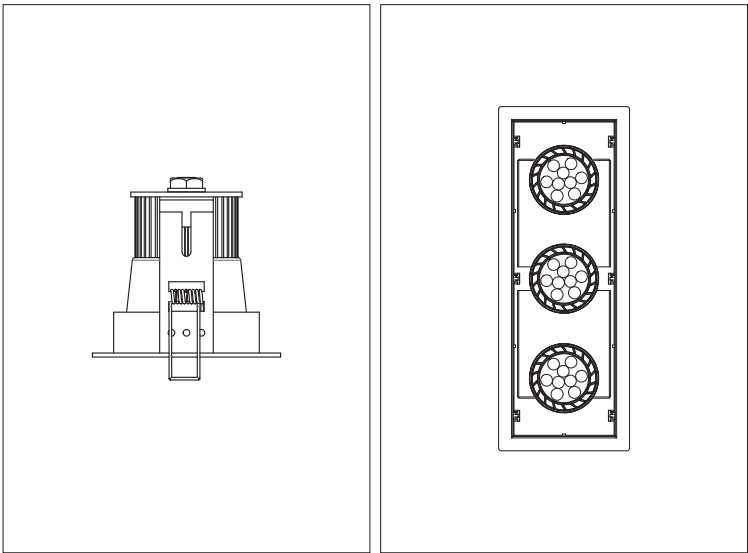


Lotus Mall, Russia



Downlight Luminaires

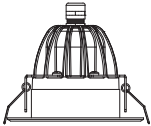
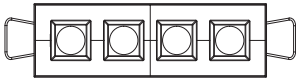
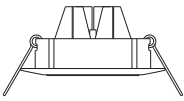
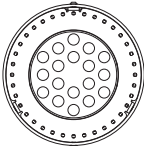
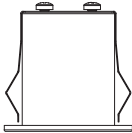
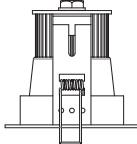
- LL
- DP
- CD**
- WW
- CS
- CF
- AC
- CG
- CB
- HB
- MM
- RDMX
- LC
- FO
- EL



CromaDown

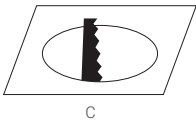
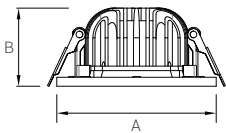
The CromaDown series provides a flawless aesthetic look to any ceiling. These luminaires render a high energy conservation by virtue of their low power consumption. They are particularly utilized for general lighting of offices, stores, universities, hospitals and museums. They provide compatible lighting solutions to every project with high-quality and elegant body designs, diverse sizes and light angles.

Downlight Luminaires

CromaDown - Downlight Luminaires

 CDAW	 CDEW	 CD69	 CD72	 CDFS	 CDS1	 CDRS
 CDSS	 CDP1	 CDP3	 CDP5	 QR111A	 CD500	 CDC1
 CD1	 CDMS	 CDLG2x2	 CDLG1x4	 CDSB80	 CDRB80	 CDRB150
 CDRB175	 CDRB300	 YOUSMA 50	 YOUSMA 85	 YOUSMA 110	 YOUSMA DALI	 YOUSMA ECO
 PNLC	 PNLL	 PNLS				



- Electrostatic powder coated aluminum injection housing
- Electrostatic powder coated aluminum injection frame
- High efficiency low-glare (UGR <19) homogeneous light by plexy diffuser
- Stainless spring system for ceiling mounting
- Suitable for recessed mounting

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Dimensions (AxB) (mm)	Cutting Dimensions (C) (mm)	Weight (kg)
CDAW 3	WW-NW-CW	220-240V AC	10	445	107x50	Ø95	0,3
CDAW 4	WW-NW-CW	220-240V AC	16	1.195	137x50	Ø130	0,4
CDAW 6	WW-NW-CW	220-240V AC	20	1.430	195x55	Ø175	0,6
CDAW 8	WW-NW-CW	220-240V AC	25	2.050	230x55	Ø210	0,9
CDAW 3-DOB	WW-NW-CW	220-240V AC DOB	4	315	107x50	Ø95	0,2
CDAW 3-DOB	WW-NW-CW	220-240V AC DOB	8	630	107x50	Ø95	0,2
CDAW 4-DOB	WW-NW-CW	220-240V AC DOB	8	630	137x50	Ø130	0,3

*Power and Lumen values provided are based off of a "cold white (CW) LED".

C Light Color Options

WW: Warm White	3000K
NW: Natural White	4000K
CW: Cold White	6500K

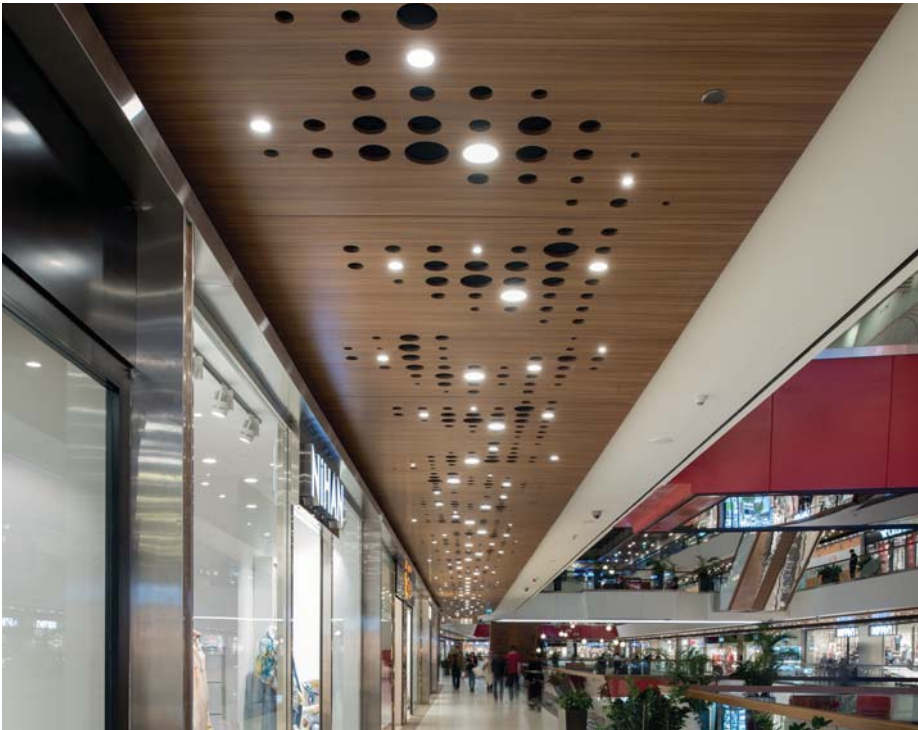
*Different colors are optional

S Driver Options

01	Standard Driver
06	DALI Driver
11	Driver + Emergency Lighting Kit 1h
12	Driver + Emergency Lighting Kit 3h

G Housing Color Options

RAL9005	RAL9007	RAL9016

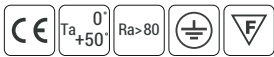


Atlaspark, İstanbul



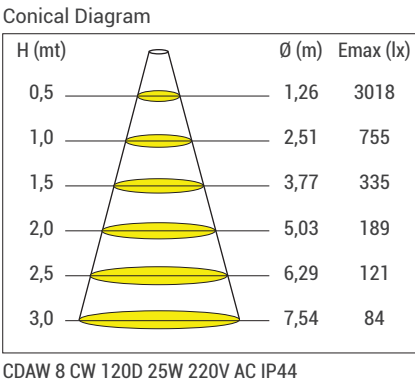
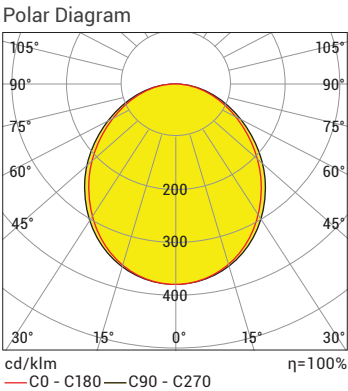
Order Code

P . W . C . S . G



Please contact our sales representatives for special application requests other than the standard product.

Product Diagrams

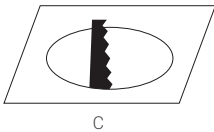
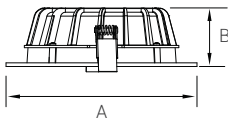


Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW				•	•	
R,G,B,A						
RGB						
RGBA/W						
RGB DMX						
WHITE DMX						



Fiberli Factory, Antalya



- Electrostatic painted aluminum injection body and frame
- Low-glare (UGR <19) homogeneous light
- Stainless spring system for ceiling mounting
- Suitable for recessed mounting

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Dimensions (AxB) (mm)	Cutting Dimensions (C) (mm)	Weight (kg)
CDEW3-TECO	WW-NW-CW	220-240V AC	7	550	Ø95x45	Ø78	0,3
CDEW4-TECO	WW-NW-CW	220-240V AC	16	1.360	Ø120x49	Ø102	0,4
CDEW6-TECO	WW-NW-CW	220-240V AC	20	1.750	Ø177x55	Ø152	0,6
CDEW8-TECO	WW-NW-CW	220-240V AC	25	2.250	Ø228x58	Ø200	0,9

*Power and Lumen values provided are based off of a "cold white (CW) LED".

C Light Color Options

WW: Warm White	3000K
NW: Natural White	4000K
CW: Cold White	6500K

*Different colors are optional

S Driver Options

- 01 Standard Driver
- 06 DALI Driver
- 11 Driver + Emergency Lighting Kit 1h
- 12 Driver + Emergency Lighting Kit 3h

G Housing Color Options

RAL9005	RAL9007	RAL9016



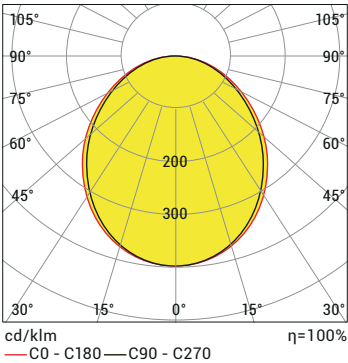
Order Code

P . W . C . S . G

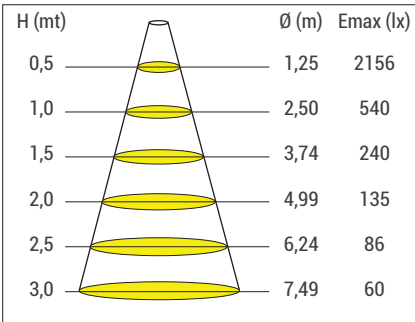


Product Diagrams

Polar Diagram



Conical Diagram

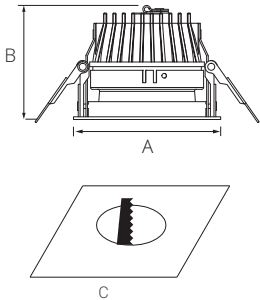


CDEW4-TECO NW40 16W 220VAC IP44

Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW				•	•	
R,G,B,A						
RGB						
RGBA/W						
RGB DMX						
WHITE DMX						





- Electrostatic powder coated aluminum injection housing
- Electrostatic powder coated aluminum injection frame
- High efficiency low-glare (UGR <19) homogeneous light by plexy diffuser
- Suitable for recessed mounting
- Anti-glare reflector

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Dimensions (AxB) (mm)	Cutting Dimensions (C) (mm)	Weight (kg)
CD69 2	WW-NW-CW	220-240V AC	4	320	95x50	Ø92	0,3
CD69 3	WW-NW-CW	220-240V AC	4	320	115x45	Ø100	0,4
CD69 4	WW-NW-CW	220-240V AC	8	640	145x50	Ø125	0,5
CD69 5	WW-NW-CW	220-240V AC	16	960	175x55	Ø150	0,6
CD69 6	WW-NW-CW	220-240V AC	20	1.600	190x50	Ø175	0,7
CD69 8	WW-NW-CW	220-240V AC	25	2.000	225x55	Ø210	0,9
CD69 2-DOB	WW-NW-CW	220-240V AC DOB	4	320	95x50	Ø92	0,2
CD69 4-DOB	WW-NW-CW	220-240V AC DOB	8	640	145x50	Ø125	0,4

*Power and Lumen values provided are based off of a "cold white (CW) LED".

C Light Color Options

WW: Warm White	3000K
NW: Natural White	4000K
CW: Cold White	6500K

*Different colors are optional

S Driver Options

- 01 Standard Driver
- 06 DALI Driver
- 11 Driver + Emergency Lighting Kit 1h
- 12 Driver + Emergency Lighting Kit 3h

G Housing Color Options

RAL9005	RAL9016	RAL9007

Reflector options

RAL9005	RAL9016

*The products are equipped with a black reflector as standard.



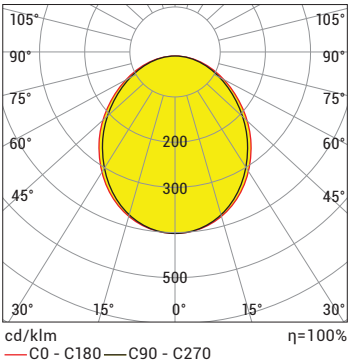
Order Code

P . W . C . S . G

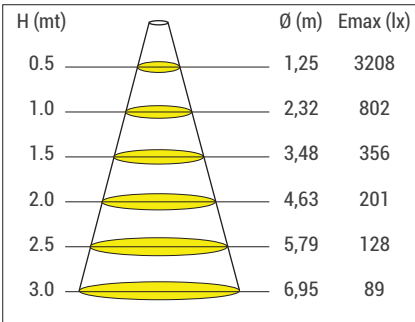


Product Diagrams

Polar Diagram



Conical Diagram



CD69 D8 CW 25 W AC 220VAC IP44

Control System Options

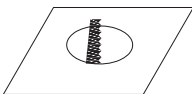
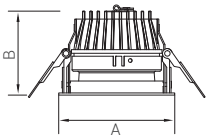
Color Type	PWM	INV PWM	DMX	DALI *	0-10V DC	TRIAC
WW-NW-CW				•	•	•
R,G,B,A						
RGB						
RGBA/W						
RGB DMX						
WHITE DMX						

*Options are not applicable for DOB



Riviera Mall, Russia





- Electrostatic powder coated aluminum injection housing
- Electrostatic powder coated aluminum injection frame
- High efficiency low-glare (UGR <19) homogeneous light by plexy diffuser
- Suitable for recessed mounting
- Anti-glare reflector

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Dimensions (AxB) (mm)	Cutting Dimensions (C) (mm)	Weight (kg)
CD72 2	WW-NW-CW	220-240V AC	4	260	95x70	Ø92	0,3
CD72 3	WW-NW-CW	220-240V AC	4	250	117x75	Ø100	0,4
CD72 4	WW-NW-CW	220-240V AC	8	890	147x75	Ø125	0,5
CD72 5	WW-NW-CW	220-240V AC	16	1.095	175x85	Ø150	0,6
CD72 6	WW-NW-CW	220-240V AC	20	1.600	195x90	Ø175	0,7
CD72 8	WW-NW-CW	220-240V AC	24	2.000	230x85	Ø210	0,9
CD72 2-DOB	WW-NW-CW	220-240V AC DOB	4	250	95x70	Ø92	0,2
CD72 4-DOB	WW-NW-CW	220-240V AC DOB	8	640	147x75	Ø125	0,4

*Power and Lumen values provided are based off of a "cold white (CW) LED".

C Light Color Options

WW: Warm White	3000K
NW: Natural White	4000K
CW: Cold White	6500K

*Different colors are optional

S Driver Options

01	Standard Driver
06	DALI Driver
11	Driver + Emergency Lighting Kit 1h
12	Driver + Emergency Lighting Kit 3h

G Housing Color Options

RAL9005	RAL9016	RAL9007

Reflector options

RAL9005	RAL9016

*The products are equipped with a black reflector as standard.

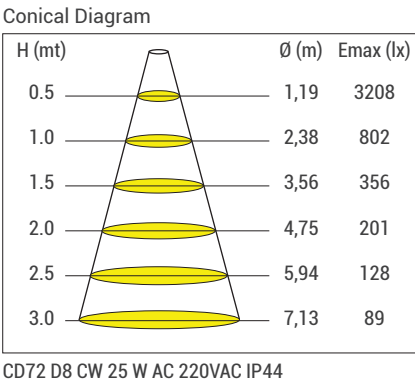
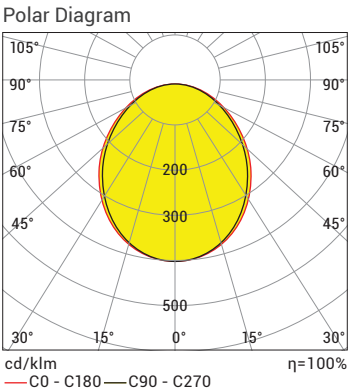


Order Code

P . W . C . S . G



Product Diagrams

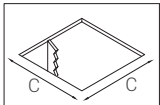
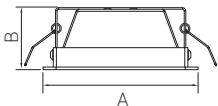


Control System Options

Color Type	PWM	INV PWM	DMX	DALI *	0-10V DC	TRIAC
WW-NW-CW				•	•	•
R,G,B,A						
RGB						
RGBA/W						
RGB DMX						
WHITE DMX						

*Options are not applicable for DOB





- Electrostatic powder coated steel frame
- High efficiency low-glare (UGR <19) homogeneous light by plexy diffuser
- Aluminum rear cooler
- Suitable for recessed mounting

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Dimensions (AxB) (mm)	Cutting Dimensions (C) (mm)	Weight (kg)
CDFS10	WW-NW-CW	220-240V AC	5	350	120x45	100x100	0,5
CDFS14	WW-NW-CW	220-240V AC	9	660	155x45	140x140	0,6
CDFS17	WW-NW-CW	220-240V AC	12	1.000	190x45	170x170	0,9
CDFS20	WW-NW-CW	220-240V AC	16	1.515	235x45	200x200	1,2
CDFS25	WW-NW-CW	220-240V AC	21	2.150	275x45	250x250	1,6

*Power and Lumen values provided are based off of a "cold white (CW) LED".

C Light Color Options

WW: Warm White	3000K
NW: Natural White	4000K
CW: Cold White	6500K

*Different colors are optional

S Driver Options

- 01 Standard Driver
- 06 DALI Driver
- 11 Driver + Emergency Lighting Kit 1h
- 12 Driver + Emergency Lighting Kit 3h

G Housing Color Options

RAL9005	RAL9016	RAL9007

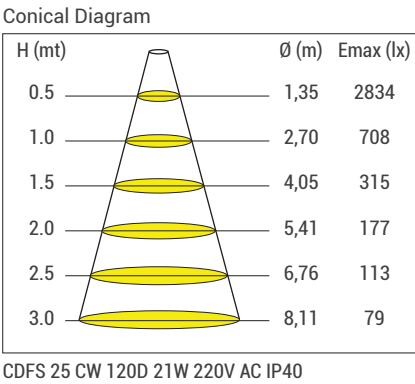
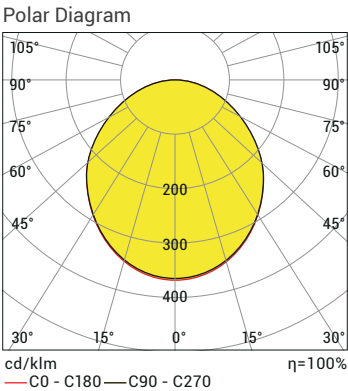


Order Code

P . W . C . S . G



Product Diagrams

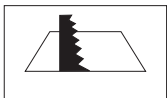
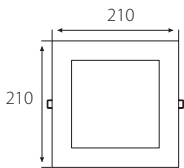


Control System Options

Color Type	PWM	INV PWM	DMX	DALI *	0-10V DC	TRIAC
WW-NW-CW				•	•	•
R,G,B,A						
RGB						
RGBA/W						
RGB DMX						
WHITE DMX						

*Options are not applicable for DOB





195x195



- Electrostatic powder coated aluminum extrusion cooler
- Electrostatic powder coated steel housing
- High efficiency homogeneous light by plexy diffuser
- Suitable for recessed mounting

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
CDS1 12	WW-NW-CW	220-240V AC	18	1.530	1,7
CDS1 18	WW-NW-CW	220-240V AC	25	1.721	1,8

*Power and Lumen values provided are based off of a "cold white (CW) LED".

C Light Color Options

WW: Warm White	3000K
NW: Natural White	4000K
CW: Cold White	6500K

*Different colors are optional

S Driver Options

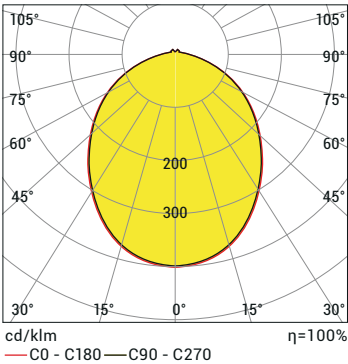
01	Standard Driver
06	DALI Driver
11	Driver + Emergency Lighting Kit 1h
12	Driver + Emergency Lighting Kit 3h

Control System Options

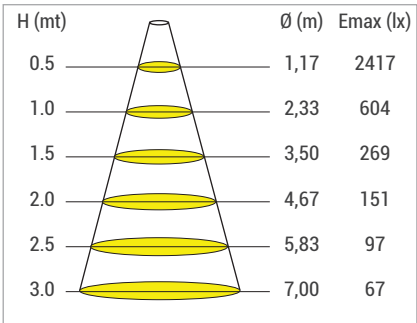
Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW	•			•	•	•
R,G,B,A						
RGB						
RGBA/W						
RGB DMX						
WHITE DMX						

Product Diagrams

Polar Diagram



Conical Diagram

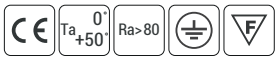


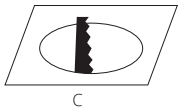
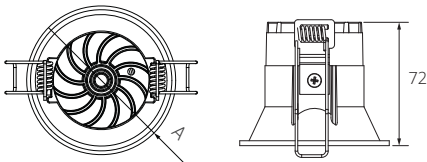
CDS1 CW 120D 18 W 220V AC IP44



Order Code

P . W . C . S





- Electrostatic painted aluminum injection body and frame
- Low-glare (UGR <19) homogeneous light
- Stainless spring system for ceiling mounting
- Suitable for recessed mounting

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Dimensions (A) (mm)	Cutting Dimensions (C) (mm)	Weight (kg)
CDRS85-TECO	WW-NW-CW	220-240V AC	8	793	Ø85	Ø77	0,2
CDRS100-TECO	WW-NW-CW	220-240V AC	15	1.206	Ø100	Ø90	0,3

*Power and Lumen values provided are based off of a "natural white (NW) LED".

C Light Color Options

WW: Warm White	3000K
NW: Natural White	4000K
CW: Cold White	6500K

*Different colors are optional

S Driver Options

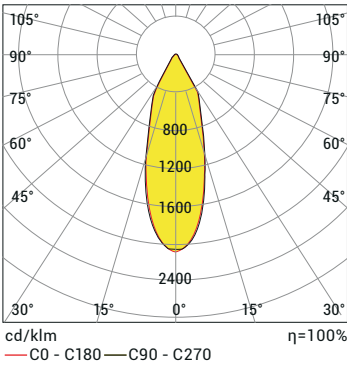
01	Standard Driver
06	DALI Driver
11	Driver + Emergency Lighting Kit 1h
12	Driver + Emergency Lighting Kit 3h

Control System Options

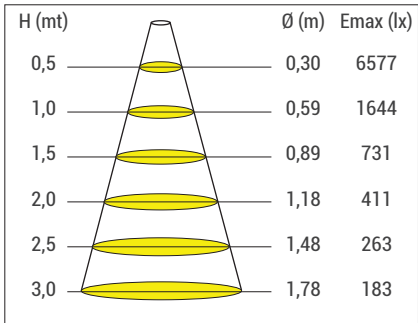
Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW				•	•	
R,G,B,A	••••					
RGB	•••					
RGBA/W	•••••					
RGB DMX	•••					
WHITE DMX	••					

Product Diagrams

Polar Diagram



Conical Diagram

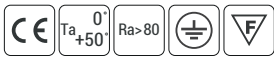


CDRS85-TECO NW40 8W 220VAC IP43



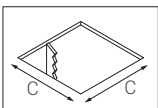
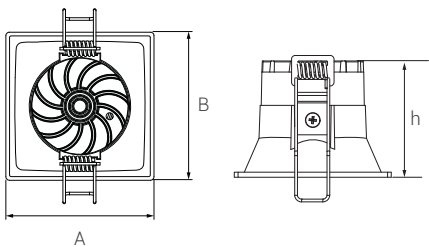
Order Code

P . W . C . S





Riviera Mall, Russia



- Electrostatic painted aluminum injection body and frame
- Low-glare (UGR <19) homogeneous light
- Stainless spring system for ceiling mounting
- Suitable for recessed mounting

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Dimensions (AxBxh) (mm)	Cutting Dimensions (C) (mm)	Weight (kg)
CDSS85-TECO	WW-NW-CW	220-240V AC	8	793	85x85x63	Ø77	0,2
CDSS100-TECO	WW-NW-CW	220-240V AC	12	900	105x105x61	Ø90	0,3

*Power and Lumen values provided are based off of a "natural white (NW) LED".

C Light Color Options

● WW: Warm White	3000K
● NW: Natural White	4000K
● CW: Cold White	6500K

*Different colors are optional

S Driver Options

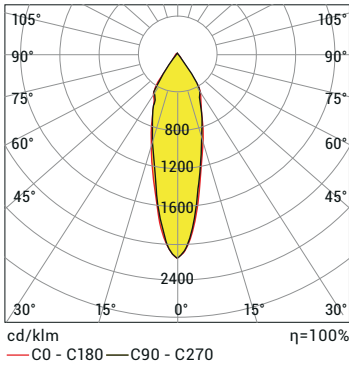
01	Standard Driver
06	DALI Driver
11	Driver + Emergency Lighting Kit 1h
12	Driver + Emergency Lighting Kit 3h

Control System Options

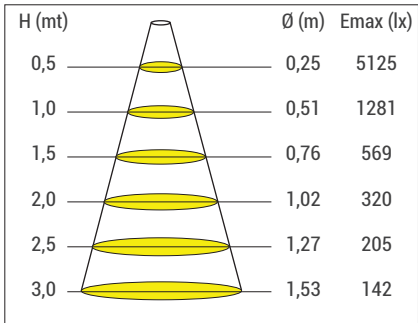
Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW	● ● ●			●	●	
R,G,B,A	● ● ● ●					
RGB	● ● ●					
RGBA/W	● ● ● ● ●					
RGB DMX	● ● ●					
WHITE DMX	●					

Product Diagrams

Polar Diagram



Conical Diagram



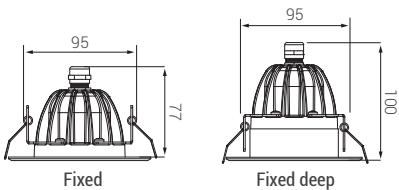
FIBERLI CDSS85-TECO NW40 8W 220VAC IP43



Order Code

P . W . C . S





- Electrostatic powder coated aluminum injection housing
- Polycarbonate luminaire glass
- Chrome front flange
- Stainless connectors
- Suitable for recessed mounting
- Anti-glare reflector (RAL9005)

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
CDP1 03	WW-NW-CW	220-240V AC	4	350	0,9
CDP1 03	WW-NW-CW	220-240V AC	8	700	1,1
CDP1 03	WW-NW-CW	12-24V DC	4	350	0,8
CDP1 03	WW-NW-CW	12-24V DC	8	700	0,8

*Power and Lumen values provided are based off of a "cold white (CW) LED".

C Light Color Options

WW: Warm White	3000K
NW: Natural White	4000K
CW: Cold White	6500K

*Different colors are optional

S Driver Options

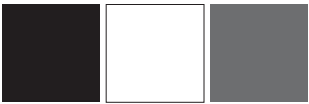
01	Standard Driver
06	DALI Driver
11	Driver + Emergency Lighting Kit 1h
12	Driver + Emergency Lighting Kit 3h

O Lens Options



N: Narrow Angle M: Medium Angle

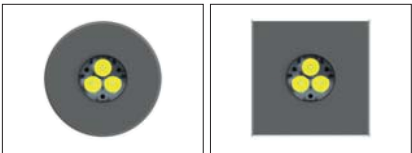
G Housing Color Options



RAL9005 RAL9016 RAL9007

The products are equipped with a black reflector as standard.

U Upper Piece Options



27: Round flange 28: Square flange

M Mounting Options



09: Fixed 10: Fixed deep



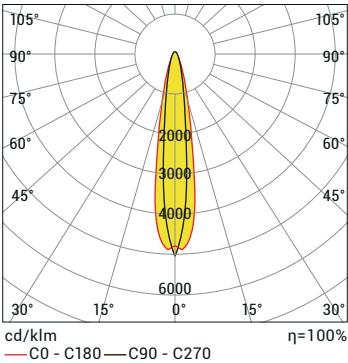
Order Code

P . W . C . S . O . G . U . M

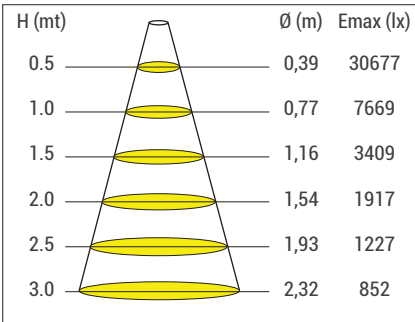


Product Diagrams

Polar Diagram



Conical Diagram

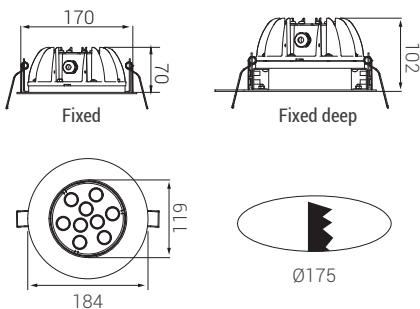
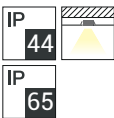


CDP1 P3 NW 25D 4W 220V AC IP65

Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW				•	•	•
R,G,B,A						
RGB						
RGBA/W						
RGB DMX						
WHITE DMX						





- Electrostatic powder coated aluminum injection housing and DKP front frame
- Polycarbonate front glass
- Stainless connectors
- Suitable for recessed mounting
- Anti-glare reflector (RAL9005)

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
CDP3 09	WW-NW-CW	220-240V AC	12	1.225	1,4
CDP3 09	WW-NW-CW	220-240V AC	17	1.685	1,4
CDP3 09	WW-NW-CW	220-240V AC	23	2.395	1,6
CDP3 09	WW-NW-CW	12-24V DC	11	1.120	1,2
CDP3 09	WW-NW-CW	12-24V DC	15	1.580	1,2
CDP3 09	WW-NW-CW	12-24V DC	22	2.290	1,2

*Power and Lumen values provided are based off of a "cold white (CW) LED".

C Light Color Options

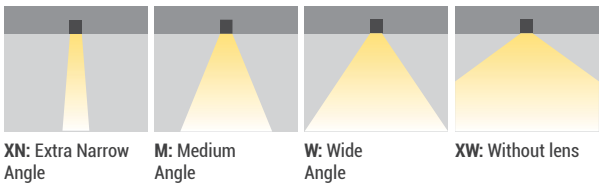
WW: Warm White	3000K
NW: Natural White	4000K
CW: Cold White	6500K

*Different colors are optional

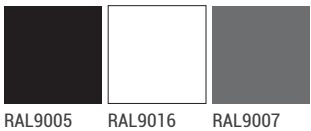
S Driver Options

- 01 Standard Driver
- 06 DALI Driver
- 11 Driver + Emergency Lighting Kit 1h
- 12 Driver + Emergency Lighting Kit 3h

O Lens Options



G Housing Color Options



The products are equipped with a black reflector as standard.

I IP Protection Class



*IP65 can only Fixed optimal



Order Code

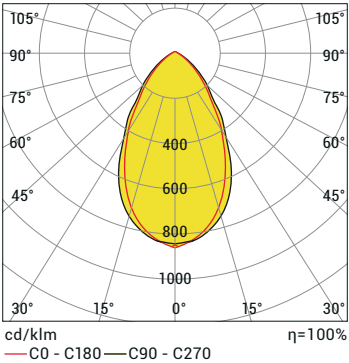
P . W . C . S . O . G . I . M

Please contact our sales representatives for special application requests other than the standard product.

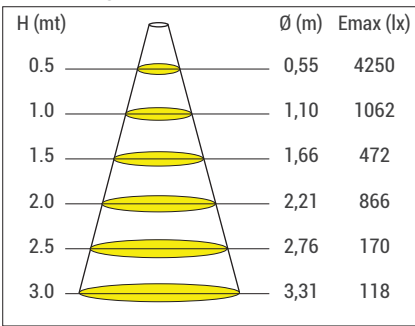


Product Diagrams

Polar Diagram



Conical Diagram



CDP3 CW 60D 12 W 220V AC IP40

M Mounting Options



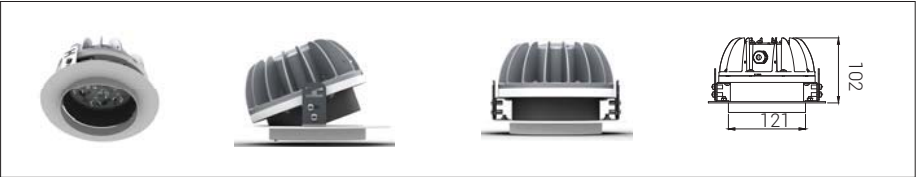
09: Fixed



10: Fixed Deep *



11: Deep movable *

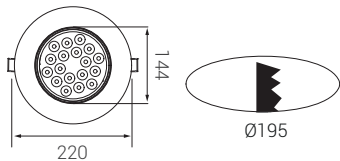
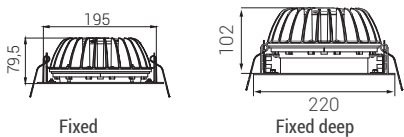
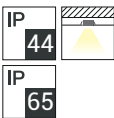


12: Deep recessed movable *

*IP65 is not available

Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW				•	•	•
R,G,B,A						
RGB						
RGBA/W						
RGB DMX						
WHITE DMX						



- Electrostatic powder coated aluminum injection housing and steel front frame
- Polycarbonate front glass
- Stainless connectors
- Suitable for recessed mounting

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
CDP5 18	WW-NW-CW	220-240V AC	20	2.408	1,8
CDP5 18	WW-NW-CW	220-240V AC	36	3.465	1,9
CDP5 18	WW-NW-CW	220-240V AC	45	4.335	2,0
CDP5 18	WW-NW-CW	12-24V DC	22	2.185	1,7

*Power and Lumen values provided are based off of a "cold white (CW) LED".

C Light Color Options

WW: Warm White	3000K
NW: Natural White	4000K
CW: Cold White	6500K

*Different colors are optional

S Driver Options

- 01 Standard Driver
- 06 DALI Driver
- 11 Driver + Emergency Lighting Kit 1h
- 12 Driver + Emergency Lighting Kit 3h

O Lens Options



XN: Extra Narrow angle M: Medium angle W: Wide angle XW: Without lens

G Housing Color Options



RAL9005 RAL9016 RAL9007
The products are equipped with a black reflector as standard.

I IP Protection Class



*IP65 can only Fixed optimal



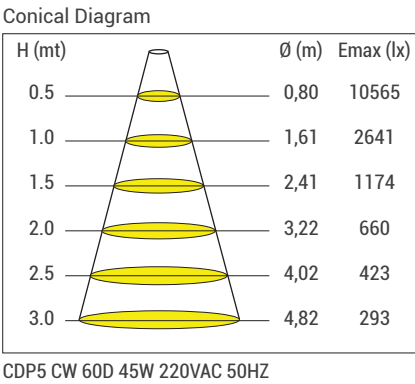
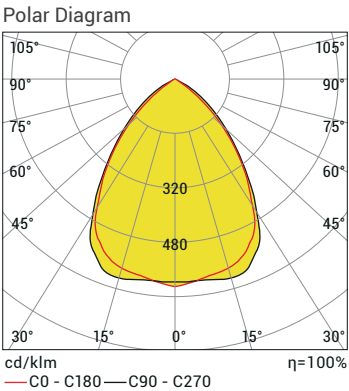
Order Code

P . W . C . S . O . G . I . M

Please contact our sales representatives for special application requests other than the standard product.



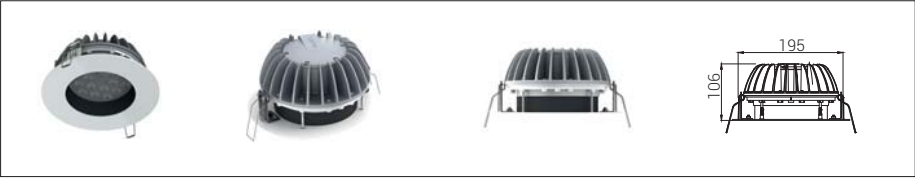
Product Diagrams



M Mounting Options



09: Fixed



10: Fixed Deep *



11: Deep movable*

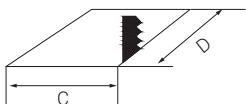


12: Deep recessed movable*

*IP65 is not available

Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW				•	•	•
R,G,B,A						
RGB						
RGBA/W						
RGB DMX						
WHITE DMX						



- Electrostatic powder coating aluminum injection body
- Fixture dimensions are same as AR111 halogen spotlight
- Suitable for recessed mounting

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Cutting Dimensions (Ax B)(mm)	Weight (kg)
QR111A-E1	WW-NW-CW	220-240V AC	12	1.270	170X170	0,9
QR111A-E1	WW-NW-CW	220-240V AC	18	1.830	170X170	0,9
QR111A-E2	WW-NW-CW	220-240V AC	20	2.120	170X320	1,6
QR111A-E2	WW-NW-CW	220-240V AC	30	3.060	170X320	1,6
QR111A-E3	WW-NW-CW	220-240V AC	40	3.060	170X485	2,5
QR111A-E3	WW-NW-CW	220-240V AC	45	4.770	170X485	2,5
QR111A-E4	WW-NW-CW	220-240V AC	60	6.120	320X320	3,5

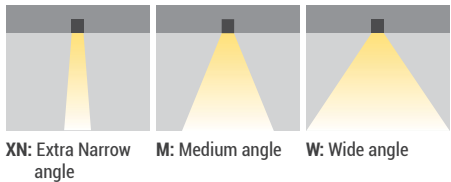
*Power and Lumen values provided are based off of a cold white (CW) LED.
**Weight value provided is based off of a single product.

C Light Color Options

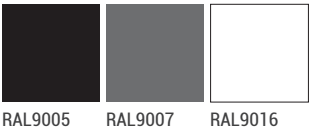
● WW: Warm White	3000K
● NW: Natural White	4000K
● CW: Cold White	6500K

*Different colors are optional

O Lens Options



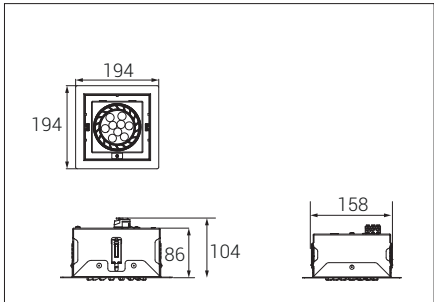
G Housing Color Options



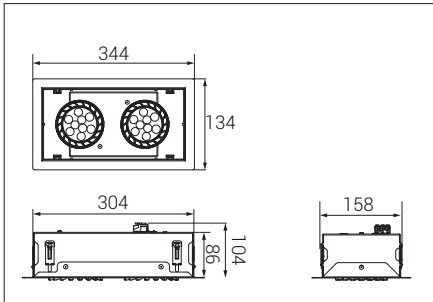
RAL9005 RAL9007 RAL9016

The inner surface of the product is painted black as standard.

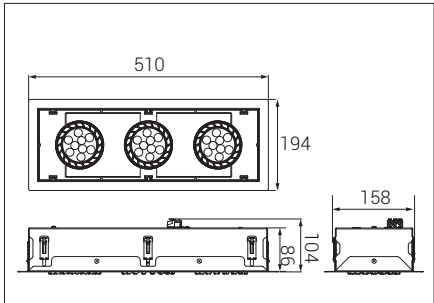
E Additional Piece Options



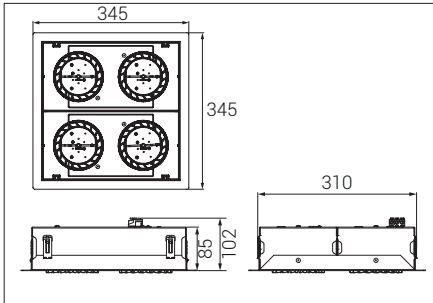
1: Single



2: Dual



3: Triple



4: Quartet



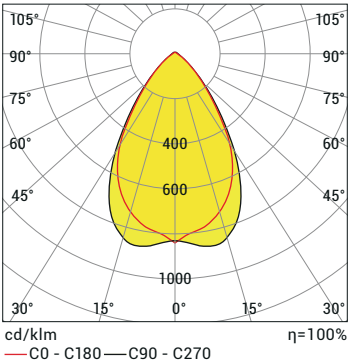
Order Code

P . W . C . O . G . E

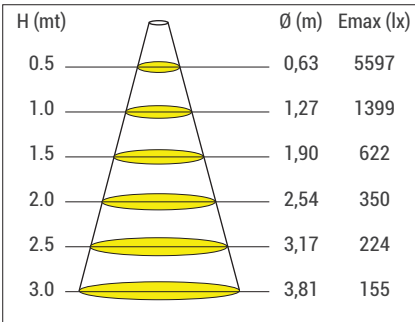


Product Diagrams

Polar Diagram



Conical Diagram

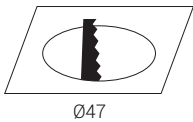
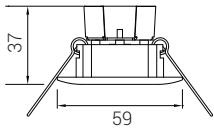


QR111A NW 18W 220V AC IP20

Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW				•	•	•
R,G,B,A						
RGB						
RGBA/W						
RGB DMX						
WHITE DMX						





- Chrome housing
- Polycarbonate luminaire glass

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
CD500	WW-NW-CW	220-240V AC	2	155	0,1

*Power and Lumen values provided are based off of a "cold white (CW) LED".

C Light Color Options

WW: Warm White	3000K
NW: Natural White	4000K
CW: Cold White	6500K

*Different colors are optional

S Driver Options

01 Standard Driver

O Lens Options



N: Narrow Angle

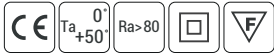
B Body Material Options

19: White	20: Gray	21: Matte Chrome	22: Gloss Chrome	23: Satin Nickel



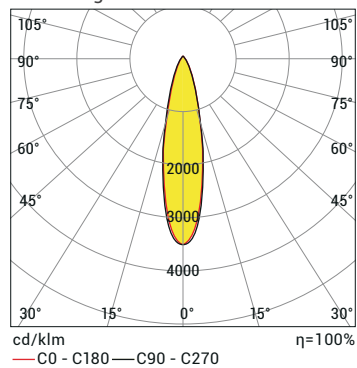
Order Code

P . W . C . S . O . B



Product Diagrams

Polar Diagram



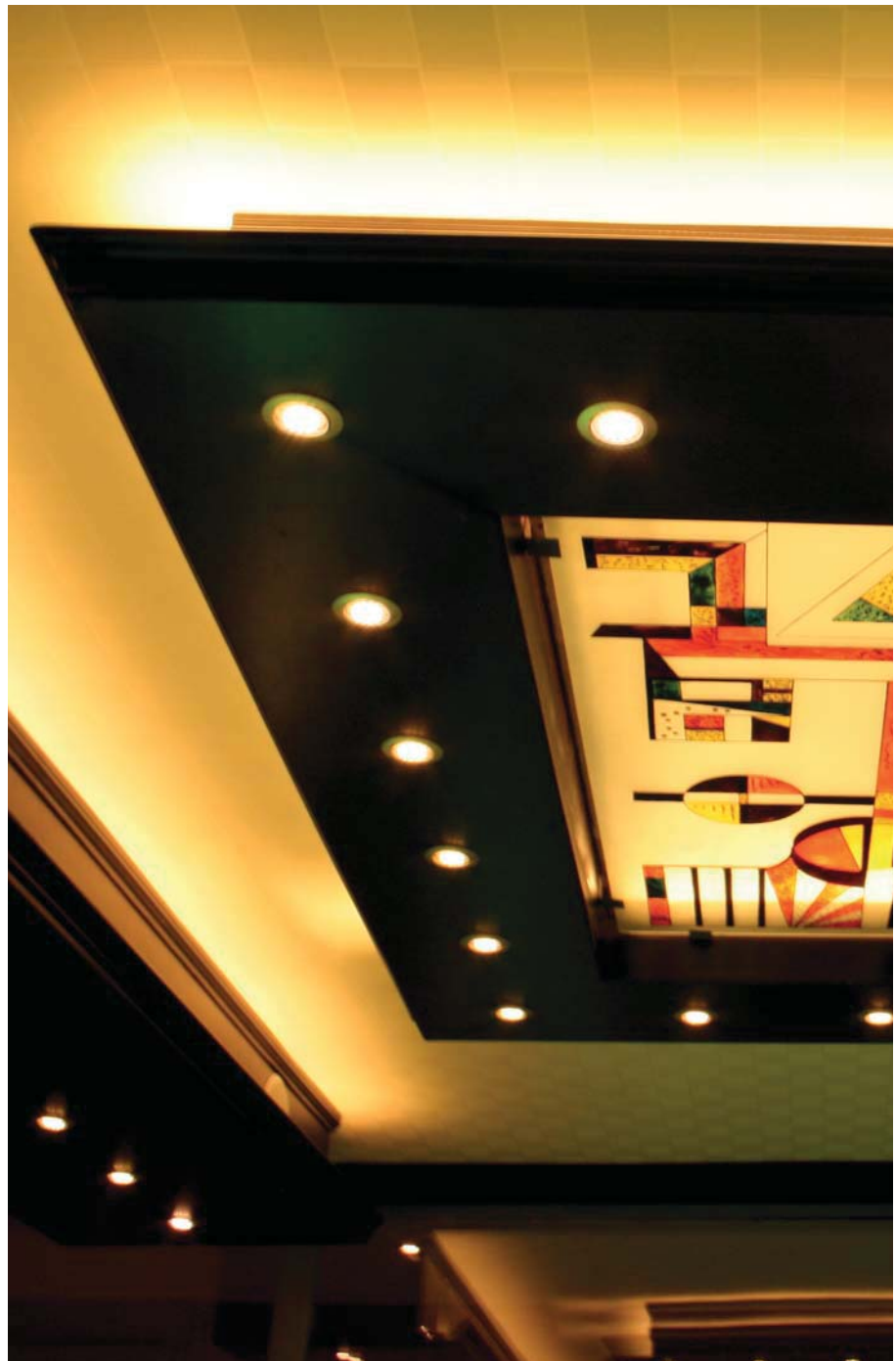
Conical Diagram

H (mt)		Ø (m)	E _{max} (lx)
0.5		0,21	2117
1.0		0,41	529
1.5		0,62	235
2.0		0,83	132
2.5		1,04	85
3.0		1,24	59

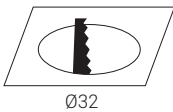
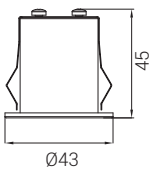
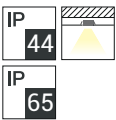
CD500 CW 25D 1.5W 220V AC IP20

Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW 						
R,G,B,A 						
RGB 						
RGBA/W 						
RGB DMX 						
WHITE DMX 						



Karmen Patisserie, Antalya



- Aluminum body
- PMMA lens
- Silicone gland
- Suitable for recessed mounting

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm/W)	Weight (kg)
CDC1	WW-NW-CW	220-240V AC	1	100	0,1
CDC1	WW-NW-CW	220-240V AC	3	240	0,1

*Power and Lumen values provided are based off of a "cold white (CW) LED".

C Light Color Options

WW: Warm White	3000K
NW: Natural White	4000K
CW: Cold White	6500K

*Different colors are optional

O Lens Options



N: Narrow Angle

I IP Protection Class



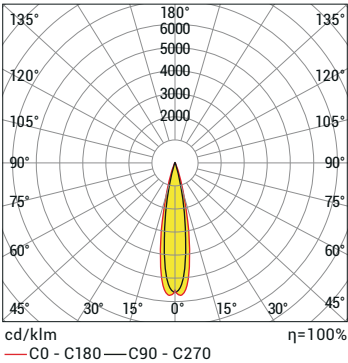
Order Code

P . W . C . O . I

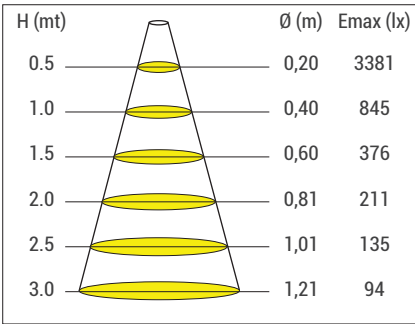


Product Diagrams

Polar Diagram



Conical Diagram

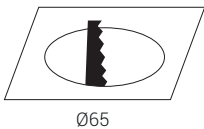
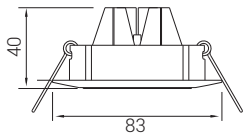


CDC1 CW DAR ACI 1,5W 220 VAC 50HZ IP44-65

Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW						
R,G,B,A						
RGB						
RGBA/W						
RGB DMX						
WHITE DMX						





- Anodized aluminum extruded housing
- Aluminum injection body
- Polycarbonate group lens
- Suitable for recessed mounting

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
CD1-3	WW-NW-CW	220-240V AC	4	405	0,2
CD1-3	WW-NW-CW	220-240V AC	6	730	0,2
CD1-8	RGB	7,5V DC	8	-	0,2

*Power and Lumen values provided are based off of a "cold white (CW) LED".

C Light Color Options

● WW: Warm White	3000K
● NW: Natural White	4000K
● CW: Cold White	6500K

*Different colors are optional

O Lens Options



N: Narrow Angle

B Body Material Options



- 21: Matte Chrome
- 22: Gloss Chrome
- 23: Satin Nickel



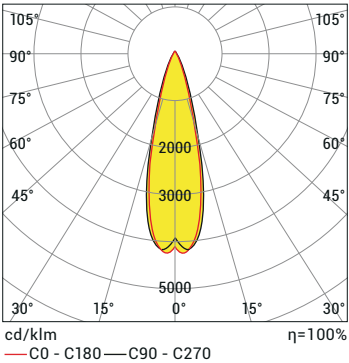
Order Code

P . W . C . O . B

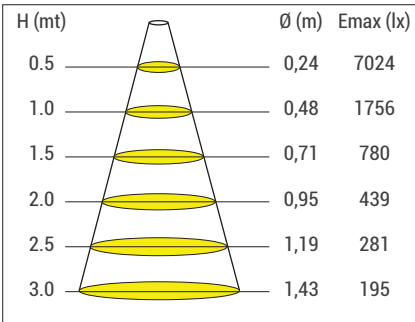


Product Diagrams

Polar Diagram



Conical Diagram

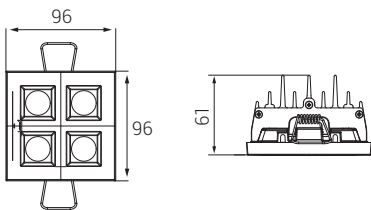


CD1 CW 25D 4.5W 220V AC IP20

Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW				•	•	•
R,G,B,A						
RGB						
RGBA/W						
RGB DMX						
WHITE DMX						





- Aluminum extrusion housing
- PC top cover
- High efficiency PMMA lens
- Stainless spring for ceiling mounting
- Recessed mounting

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Cutting Dimensions (mm)	Weight (kg)
CDLG 2x2	WW-NW-CW	220-240V AC	10	950	Ø90x90	0,3

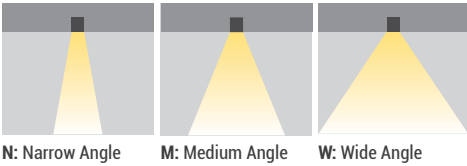
*Power and Lumen values provided are based off of a "cold white (CW) LED".

C Light Color Options

WW: Warm White	3000K	R: Red	625nm	RGB
NW: Natural White	4000K	G: Green	525nm	RGBW
CW: Cold White	6500K	B: Blue	465nm	RGBW
		A: Amber	590nm	RGBA

*Different colors are optional

O Lens Options

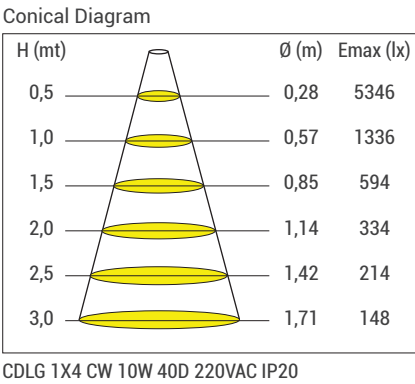
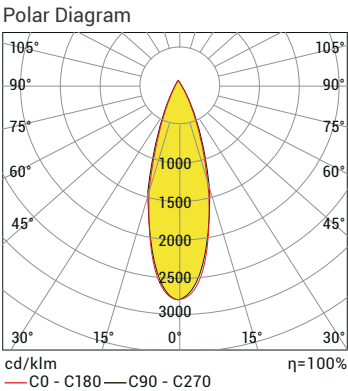


Order Code

P . W . C . O



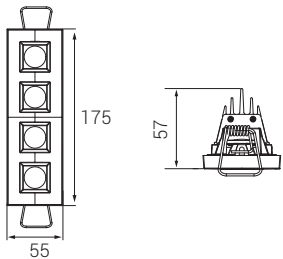
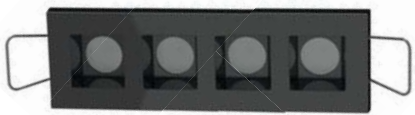
Product Diagrams



Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW				•	•	•
R,G,B,A						
RGB						
RGBA/W						
RGB DMX			•			
WHITE DMX			•			





- Aluminum extrusion housing
- PC top cover
- High efficiency PMMA lens
- Stainless spring for ceiling mounting
- Recessed mounting

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Cutting Dimensions (mm)	Weight (kg)
CDLG 1x4	WW-NW-CW	220-240V AC	10	950	Ø170x50	0,4

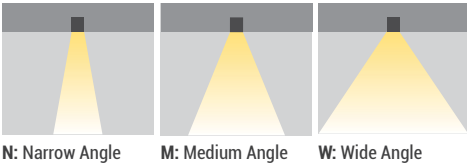
*Power and Lumen values provided are based off of a "cold white (CW) LED".

C Light Color Options

● WW: Warm White	3000K	● R: Red	625nm	● RGB
● NW: Natural White	4000K	● G: Green	525nm	● RGBW
● CW: Cold White	6500K	● B: Blue	465nm	● RGBA
		● A: Amber	590nm	

*Different colors are optional

O Lens Options



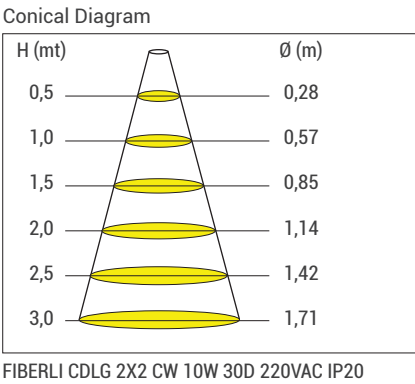
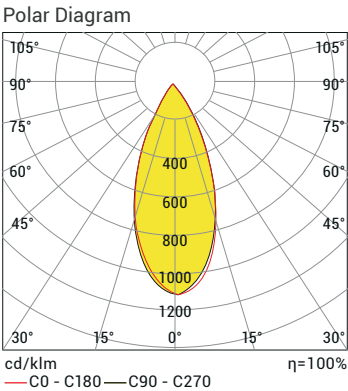
Order Code

P . W . C . O



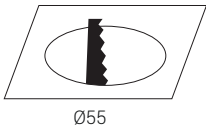
Please contact our sales representatives for special application requests other than the standard product.

Product Diagrams



Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW				•	•	•
R,G,B,A						
RGB						
RGBA/W						
RGB DMX			•			
WHITE DMX			•			



- Plastic injection rear housing
- Satin nickel coated plastic injection front frame
- Polycarbonate diffused front cover.

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
CDMS	WW-NW-CW	24V DC	2	130	0,4

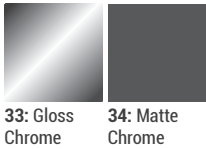
*Power and Lumen values provided are based off of a "cold white (CW) LED".

C Light Color Options

WW: Warm White	3000K
NW: Natural White	4000K
CW: Cold White	6500K

*Different colors are optional

U Upper Cover Options

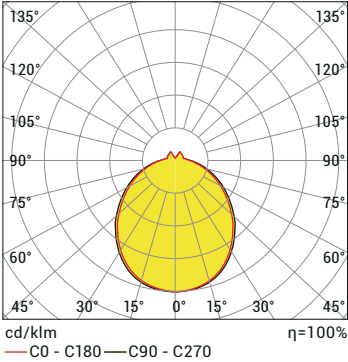


Control System Options

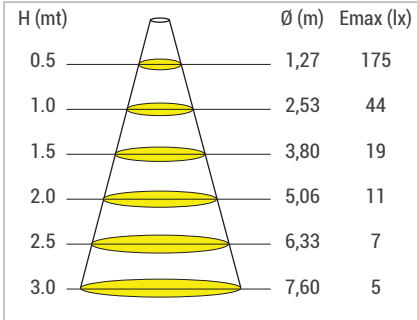
Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW	•			•	•	•
R,G,B,A	••••					
RGB	•••					
RGBA/W	•••••					
RGB DMX	•••					
WHITE DMX	•					

Product Diagrams

Polar Diagram



Conical Diagram



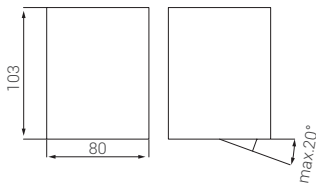
CDMS CW 120D 1.5W 24V DC IP20



Order Code

P . W . C . U





- Electrostatic powder coated aluminum injection housing
- Anodized aluminum cooler
- Impact resistant front glass
- High efficiency anodized reflector
- Suitable for surface mounting

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
CDSB80	WW-NW-CW	220-240V AC	8	680	1,2

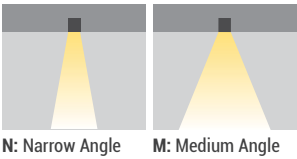
*Power and Lumen values provided are based off of a cold white (CW) LED.

C Light Color Options

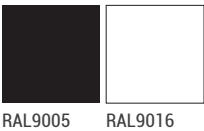
WW: Warm White	3000K
NW: Natural White	4000K
CW: Cold White	6500K

*Different colors are optional

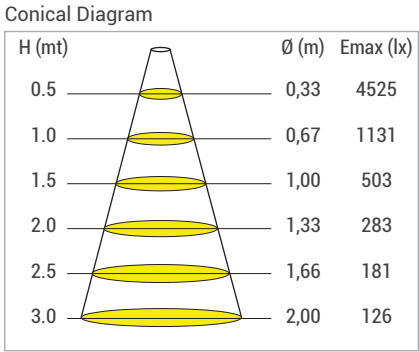
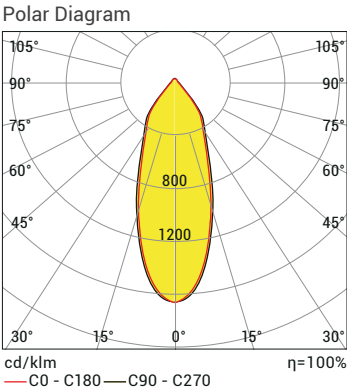
O Lens Options



G Housing Color Options



Product Diagrams



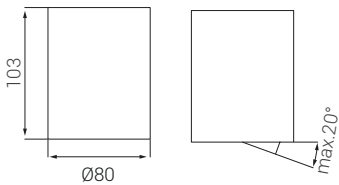
CDSB 80 CW 45D 8W 220V AC IP44



Order Code

P . W . C . O . G





- Electrostatic powder coated aluminum injection housing
- Anodized aluminum cooler
- Impact resistant front glass
- High efficiency anodized reflector
- Suitable for surface mounting

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
CDRB80	WW-NW-CW	220-240V AC	8	680	1,2

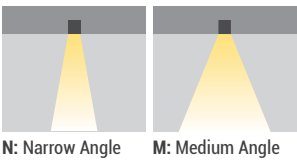
*Power and Lumen values provided are based off of a cold white (CW) LED.

C Light Color Options

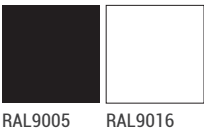
WW: Warm White	3000K
NW: Natural White	4000K
CW: Cold White	6500K

*Different colors are optional

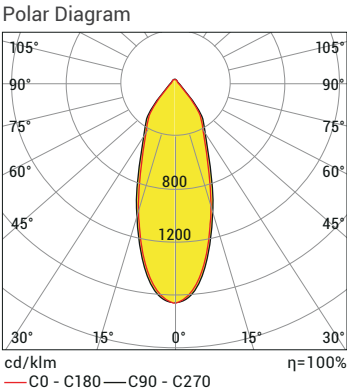
O Lens Options



G Housing Color Options



Product Diagrams



Conical Diagram

H (mt)	Ø (m)	E _{max} (lx)
0.5	0,33	4525
1.0	0,67	1131
1.5	1,00	503
2.0	1,33	283
2.5	1,66	181
3.0	2,00	126

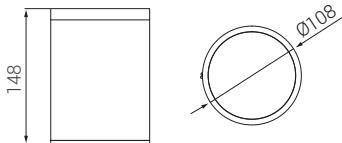
CDRB 80 CW 45D 8W 220V AC IP44



Order Code

P . W . C . O . G





- Electrostatic powder coated aluminum housing
- Polycarbonate front glass
- Suitable for surface/pendant mounting

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
CDRB150	WW-NW-CW	220-240V AC	12	1.225	1,1

*Power and Lumen values provided are based off of a cold white (CW) LED.

C Light Color Options

● WW: Warm White	3000K
● NW: Natural White	4000K
● CW: Cold White	6500K

*Different colors are optional

S Driver Options

- 01 Standard Driver
- 06 DALI Driver

O Lens Options

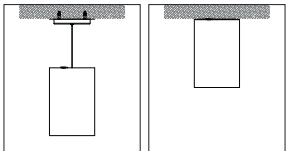


XN: Extra Narrow Angle N: Narrow Angle M: Medium Angle XW: Without Lens

G Housing Color Options



M Mounting Options



25: Pendant 26: Surface

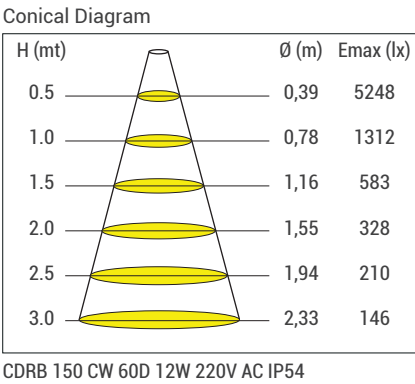
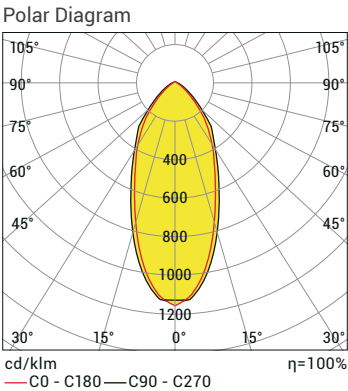


Order Code

P . W . C . S . O . G . M



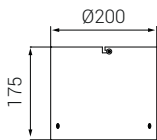
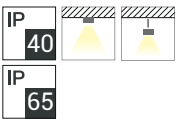
Product Diagrams



Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW				•		
R,G,B,A						
RGB						
RGBA/W						
RGB DMX						
WHITE DMX						





- Electrostatic powder coated steel housing
- Electrostatic powder coated aluminum cooler
- Polycarbonate front glass
- Suitable for surface/pendant mounting

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
CDRB175	WW-NW-CW	220-240V AC	25	2.420	2,5
CDRB175	WW-NW-CW	220-240V AC	45	4.376	2,6

*Power and Lumen values provided are based off of a cold white (CW) LED.

C Light Color Options

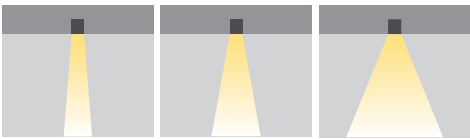
● WW: Warm White	3000K
● NW: Natural White	4000K
● CW: Cold White	6500K

*Different colors are optional

S Driver Options

01	Standard Driver
06	DALI Driver
11	Driver + Emergency Lighting Kit 1h
12	Driver + Emergency Lighting Kit 3h

O Lens Options



XN: Extra Narrow Angle N: Narrow Angle M: Medium Angle

G Housing Color Options

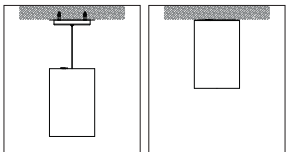


RAL9005 RAL9007 RAL9016

I IP Protection Class



M Mounting Options



25: Pendant 26: Surface

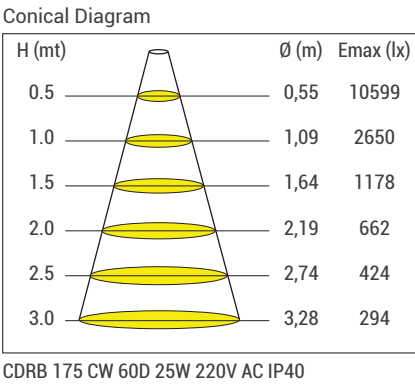
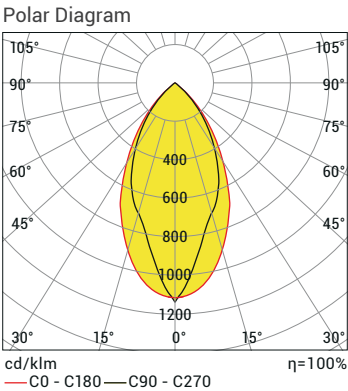


Order Code

P . W . C . S . O . G . I . M



Product Diagrams

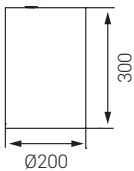
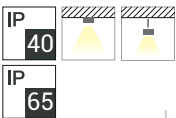


Control System Options

Color Type	PWM	INV PWM	DMX	DALI *	0-10V DC*	TRIAC
WW-NW-CW				•	•	•
R,G,B,A						
RGB						
RGBA/W						
RGB DMX						
WHITE DMX						

*Not aplicable for IP65





- Electrostatic powder coated steel housing
- Electrostatic powder coated aluminum cooler
- Polycarbonate front glass
- Suitable for surface/pendant mounting

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
CDRB300 18	WW-NW-CW	220-240V AC	25	2.302	3,8
CDRB300 18	WW-NW-CW	220-240V AC	50	4.262	4,1
CDRB300 54**	WW-NW-CW	220-240V AC	100	11.033	4,5

*Power and Lumen values provided are based off of a cold white (CW) LED.
**IP40 only

C Light Color Options

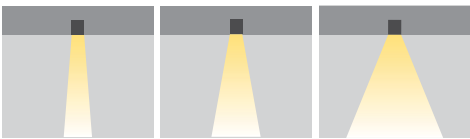
WW: Warm White	3000K
NW: Natural White	4000K
CW: Cold White	6500K

*Different colors are optional

S Driver Options

- 01 Standard Driver
- 06 DALI Driver
- 11 Driver + Emergency Lighting Kit 1h
- 12 Driver + Emergency Lighting Kit 3h

O Lens Options



XN: Extra Narrow Angle N: Narrow Angle M: Medium Angle

G Housing Color Options

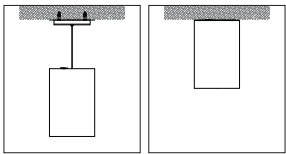


RAL9005 RAL9007 RAL9016

I IP Protection Class



M Mounting Options



25: Pendant 26: Surface

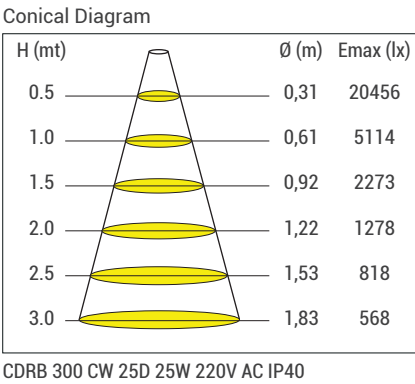
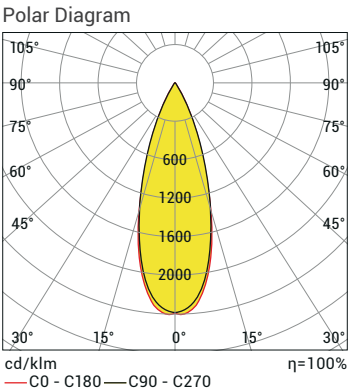


Order Code

P . W . C . S . O . G . I . M



Product Diagrams

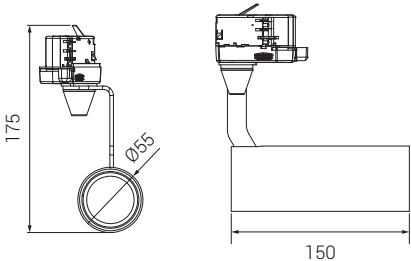


Control System Options

Color Type	PWM	INV PWM	DMX	DALI *	0-10V DC*	TRIAC
WW-NW-CW	•			•	•	•
R,G,B,A						
RGB						
RGBA/W						
RGB DMX						
WHITE DMX						

*Not aplicable for IP65





- Electrostatic powder painted aluminium body
- High efficiency aluminum reflector with polycarbonate cover
- 356° rotation range and 90°swivel range
- Multi-adaptor for 3-circuit tracks
- Perfect light quality from flicker-free, glare control and light color quality
- Below BBL (Black Body Locus) white without greenish tint brilliant white COB

P W Product & Power Options

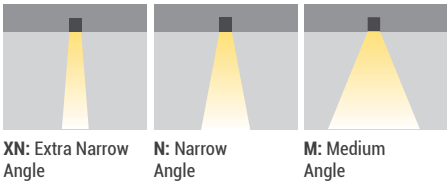
Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
Yousma-50	WW-NW	220V-240V AC	10	850	0,40

*Power and Lumen values provided are based off of a natural white (NW) LED.

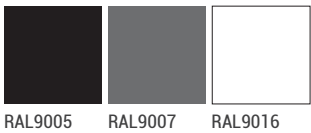
C Light Color Options

WW: Warm White	3000K
NW: Natural White	4000K

O Lens Options



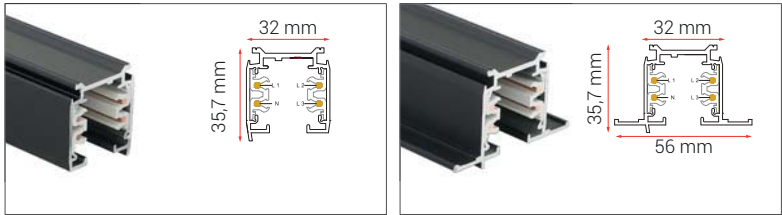
G Housing Color Options



U Upper Pieces Options



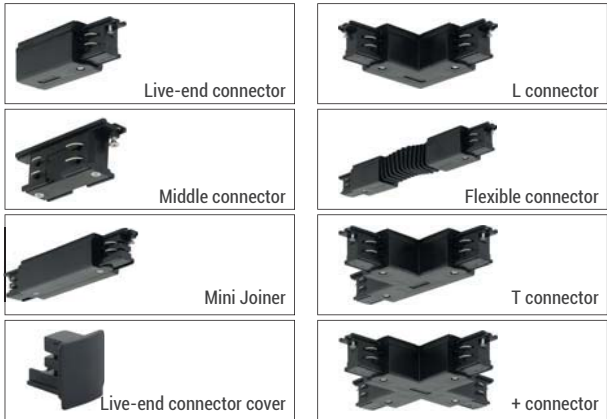
Accessories
3-phase Tracks



Surface Mounted

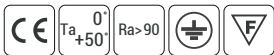
Recessed Mounted

Connections

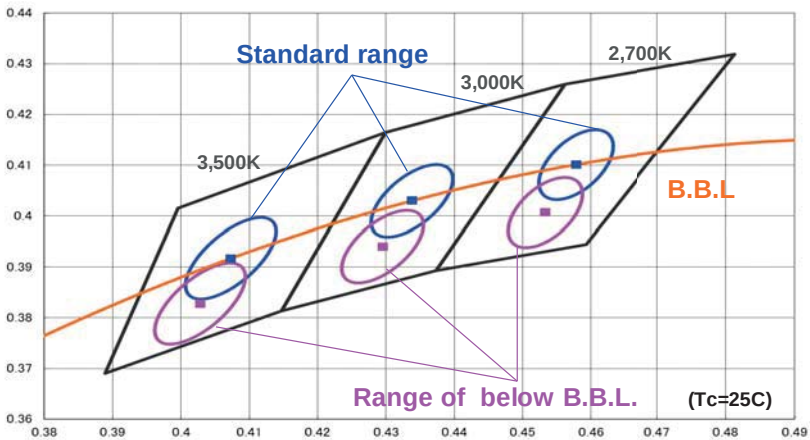
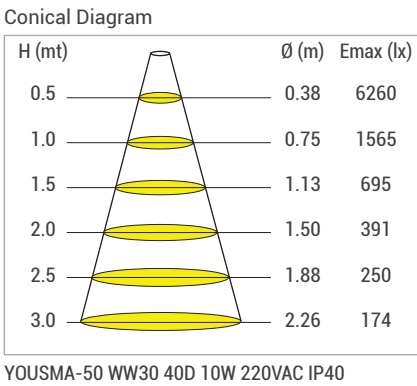
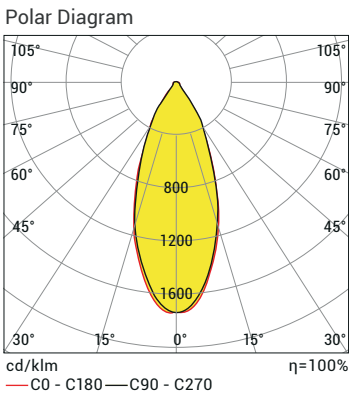


Order Code

P . W . C . O . G . U



Product Diagrams



The centers of MacAdam 3-step are below the BBL in the ANSI color bins.

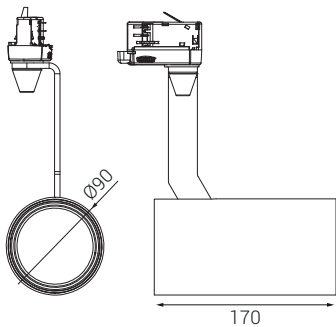


Other 90+ CRI LED

Citizen Below BBL

Downlight

YOUSMA85



- Electrostatic powder painted aluminium body
- High efficiency aluminum reflector with polycarbonate cover
- 356° rotation range and 90°swivel range
- Multi-adaptor for 3-circuit tracks
- Perfect light quality from flicker-free, glare control and light color quality
- Below BBL (Black Body Locus) white without greenish tint brilliant white COB

P W Product & Power Options

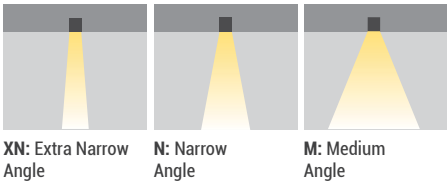
Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
Yousma-85	WW-NW	220V-240V AC	20	1.800	0,85

*Power and Lumen values provided are based off of a natural white (NW) LED.

C Light Color Options

WW: Warm White	3000K
NW: Natural White	4000K

O Lens Options



XN: Extra Narrow Angle

N: Narrow Angle

M: Medium Angle

G Housing Color Options



RAL9005

RAL9007

RAL9016

U Upper Pieces Options



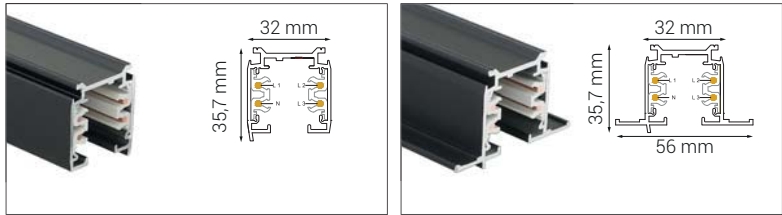
35: Black Reflector

36: Light Diffuser (Honeycomb)

37: Angled Reflector

Accessories

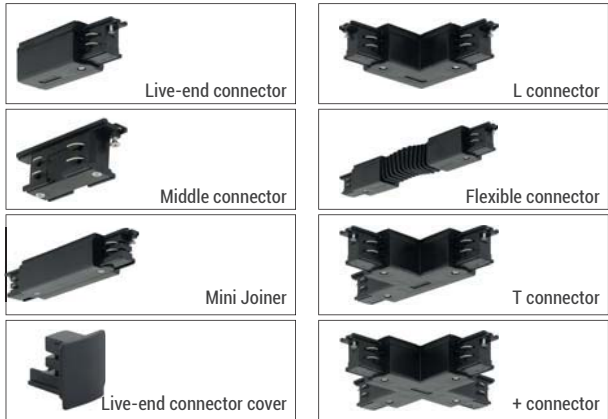
3-phase Tracks



Surface Mounted

Recessed Mounted

Connections



Live-end connector

L connector

Middle connector

Flexible connector

Mini Joiner

T connector

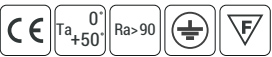
Live-end connector cover

+ connector



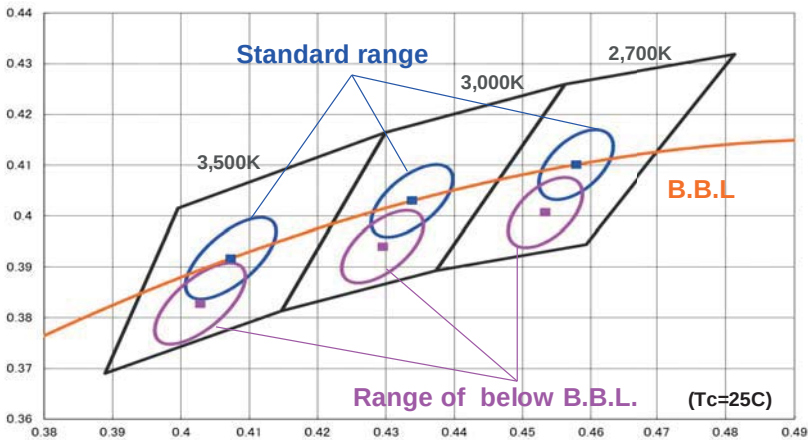
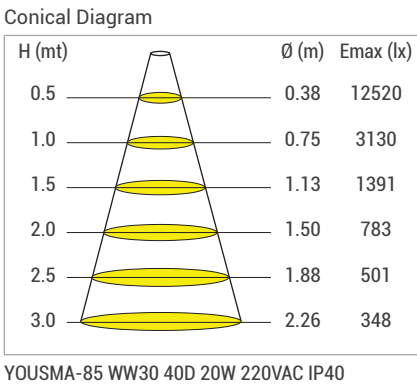
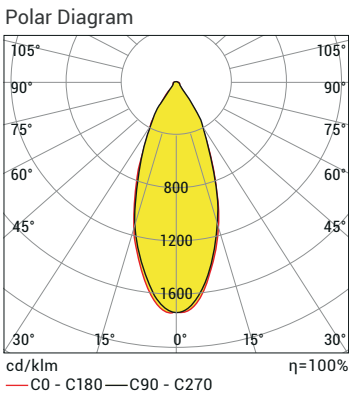
Order Code

P . W . C . O . G . U



Please contact our sales representatives for special application requests other than the standard product.

Product Diagrams

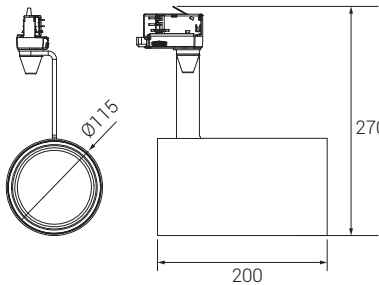


The centers of MacAdam 3-step are below the BBL in the ANSI color bins.



Other 90+ CRI LED

Citizen Below BBL



- Electrostatic powder painted aluminium body
- High efficiency aluminum reflector with polycarbonate cover
- 356° rotation range and 90°swivel range
- Multi-adapter for 3-circuit tracks
- Perfect light quality from flicker-free, glare control and light color quality
- Below BBL (Black Body Locus) white without greenish tint brilliant white COB

P W Product & Power Options

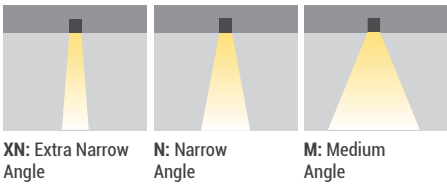
Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
Yousma-110	WW-NW	220V-240V AC	30	2.550	1,30
Yousma-110	WW-NW	220V-240V AC	40	3.200	1,45

*Power and Lumen values provided are based off of a natural white (NW) LED.

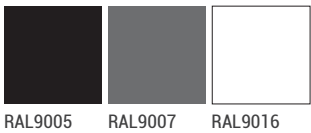
C Light Color Options

WW: Warm White	3000K
NW: Natural White	4000K

O Lens Options



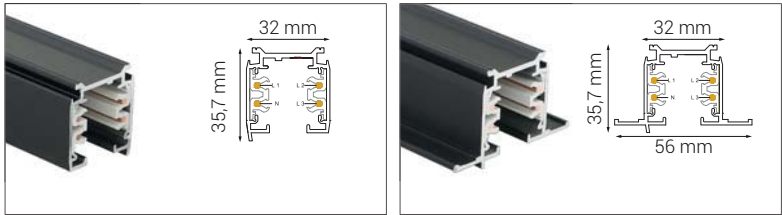
G Housing Color Options



U Upper Pieces Options



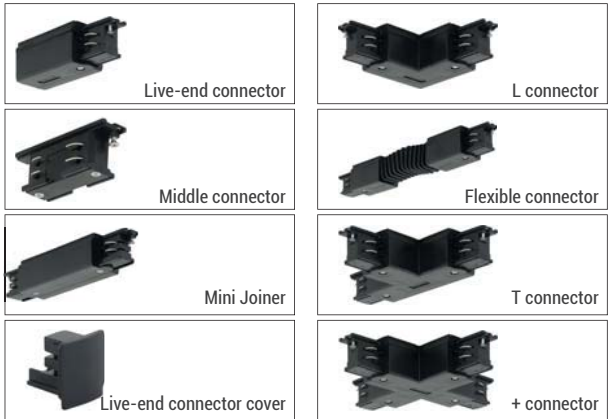
Accessories
3-phase Tracks



Surface Mounted

Recessed Mounted

Connections

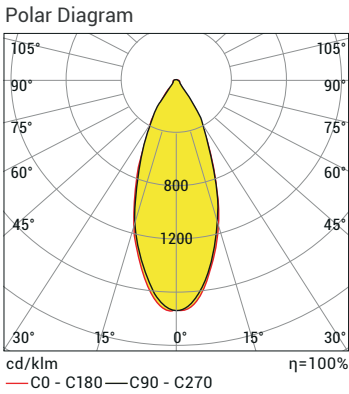


Order Code

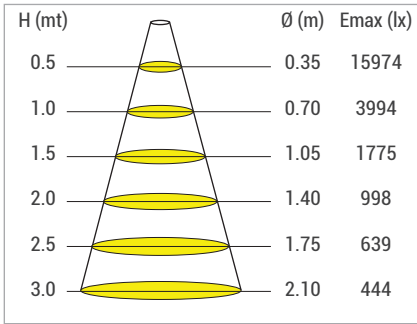
P . W . C . O . G . U



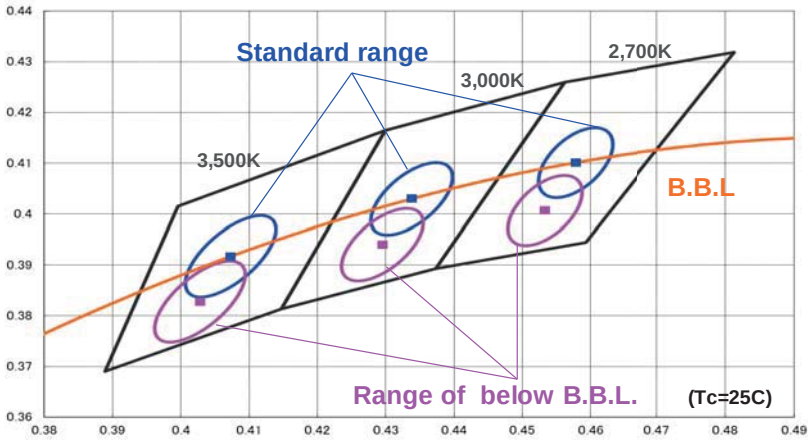
Product Diagrams



Conical Diagram



YOUSMA-110 WW30 40D 30W 220VAC IP40



The centers of MacAdam 3-step are below the BBL in the ANSI color bins.

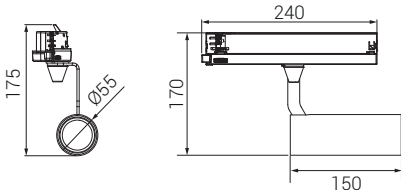


Other 90+ CRI LED

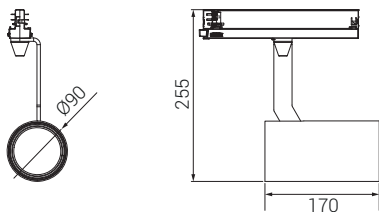
Citizen Below BBL



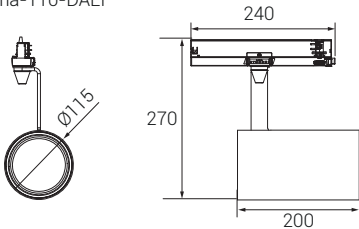
Yousma-50-DALI



Yousma-85-DALI



Yousma-110-DALI



- Electrostatic powder painted aluminium body
- High efficiency aluminum reflector with polycarbonate cover
- 356° rotation range and 90°swivel range
- Multi-adaptor for 3-circuit DALI tracks
- Perfect light quality from flicker-free, glare control and light color quality
- Below BBL (Black Body Locus) white without greenish tint brilliant white COB

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
Yousma-50-DALI	WW-NW	220V-240V AC	12	1.020	0,40
Yousma-85-DALI	WW-NW	220V-240V AC	25	2.120	0,85
Yousma-110-DALI	WW-NW	220V-240V AC	35	3.000	1,30
Yousma-110-DALI	WW-NW	220V-240V AC	45	3.800	1,45

*Power and Lumen values provided are based off of a natural white (NW) LED.

C Light Color Options

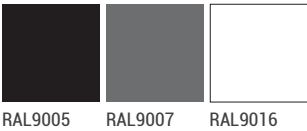
● WW: Warm White	3000K
● NW: Natural White	4000K

O Lens Options



XN: Extra Narrow Angle
N: Narrow Angle
M: Medium Angle

G Housing Color Options

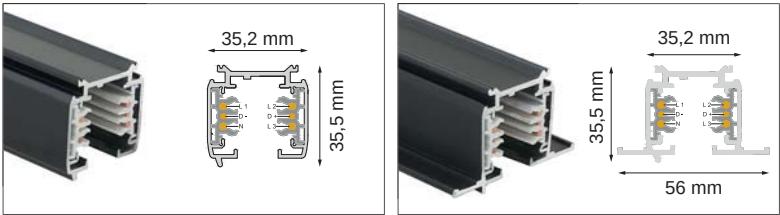


U Upper Pieces Options



35: Black Reflector
36: Light Diffuser (Honeycomb)
37: Angled Reflector

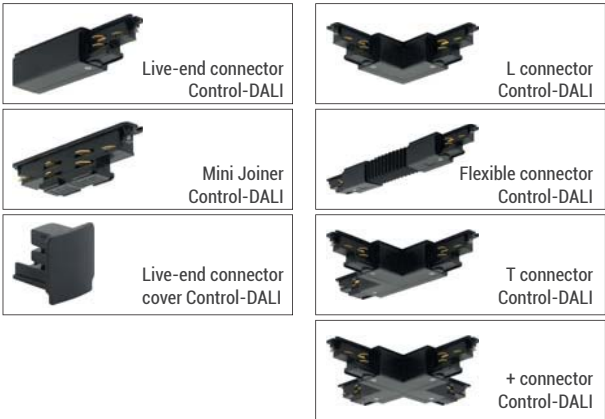
Accessories
3-phase DALI Tracks



Surface Mounted

Recessed Mounted

DALI Connections

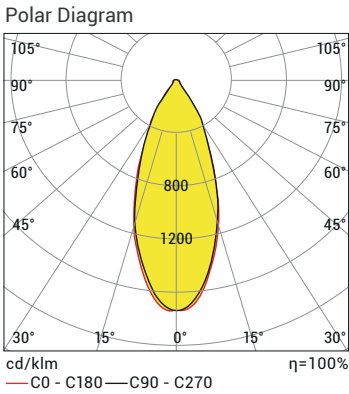


Order Code

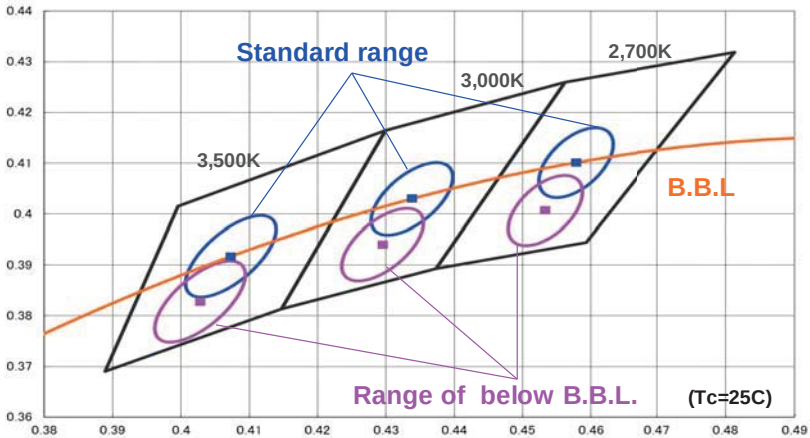
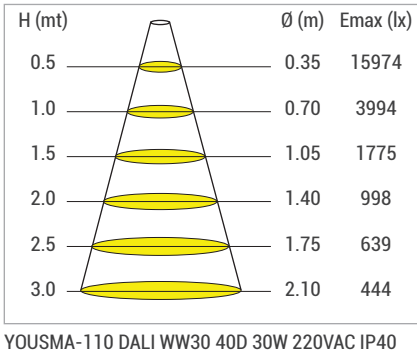
P . W . C . O . G . U



Product Diagrams



Conical Diagram

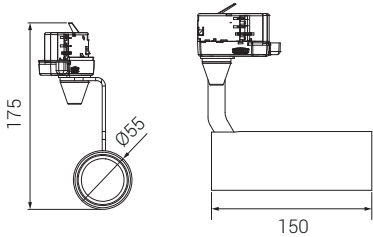


The centers of MacAdam 3-step are below the BBL in the ANSI color bins.

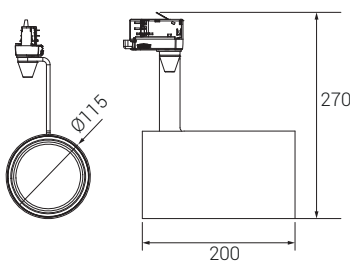




Yousma-50-ECO



Yousma-110-ECO



- Electrostatic powder painted aluminium body
- 356° rotation range and 90° swivel range
- Multi-adapter for 3-circuit tracks
- Perfect light quality from flicker-free, glare control and light color quality
- Easy changable GU10 or PAR lamp

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
Yousma-50-ECO	WW	220V-240V AC	7	560	0,40
Yousma-110-ECO	WW	220V-240V AC	11	1.100	1,10

*Power and Lumen values provided are based off of a warm white (WW) LED.

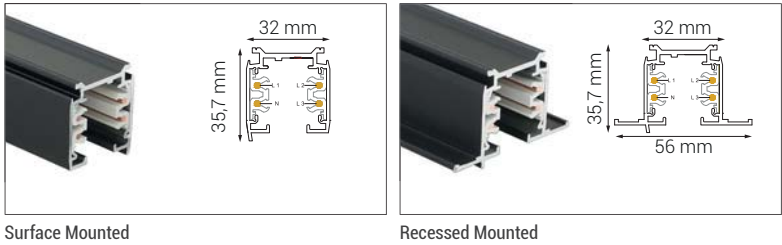
Housing Color Options



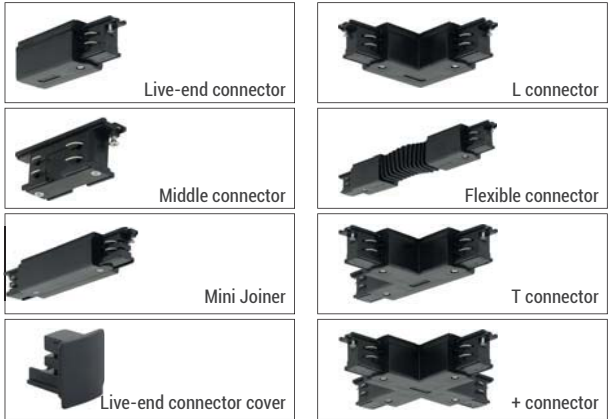
U Upper Pieces Options



Accessories
3-phase Tracks

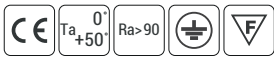


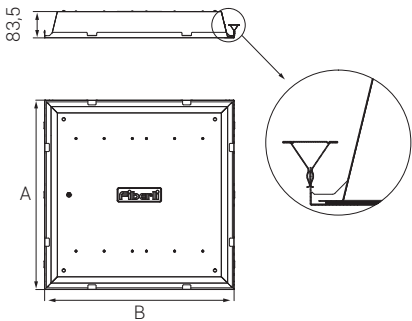
Connections



Order Code

P . W . C . O . G . U





- Electrostatic painted DKP body
- Electrostatic painted DKP frame
- High efficiency low-glare (UGR <19) homogeneous light diffuser
- Efficiency exceeding 100lm/W with backlight technology
- Suitable for recessed use (Clip In)

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Dimensions (AxB) (mm)	Weight (kg)
PNLCLIPIN-3030	WW-NW-CW	220-240V AC	15	1.353	300x300	1,1
PNLCLIPIN-6060	WW-NW-CW	220-240V AC	26	3.507	600x600	3,2
PNLCLIPIN-6060	WW-NW-CW	220-240V AC	34	4.175	600x600	3,2
PNLCLIPIN-6060	WW-NW-CW	220-240V AC	38	4.843	600x600	3,2

*Power and Lumen values provided are based off of a cold white (CW) LED.

C Light Color Options

WW: Warm White	3000K
NW: Natural White	4000K
CW: Cold White	6500K

*Different colors are optional

S Driver Options

- 01 Standard Driver
- 06 DALI Driver
- 11 Driver + Emergency Lighting Kit 1h
- 12 Driver + Emergency Lighting Kit 3h

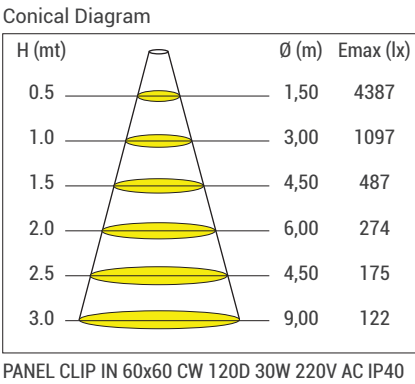
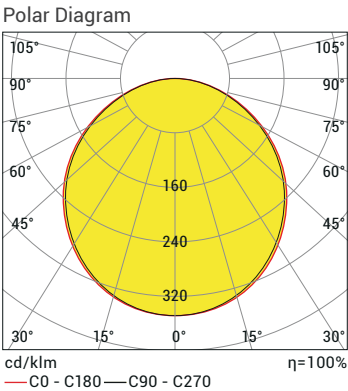


Order Code

P . W . C . S



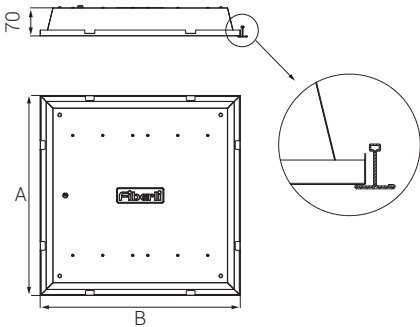
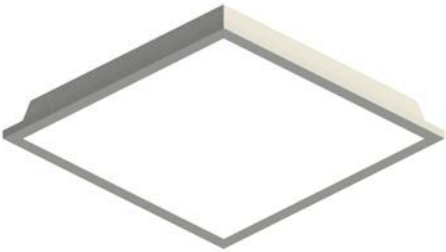
Product Diagrams



Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW				•	•	•
R,G,B,A						
RGB						
RGBA/W						
RGB DMX						
WHITE DMX						





- Electrostatic painted DKP body
- Electrostatic painted DKP frame
- High efficiency low-glare (UGR <19) homogeneous light diffuser
- Efficiency exceeding 100lm/W with backlight technology
- Suitable for recessed use (Clip In)

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Dimensions (AxB) (mm)	Weight (kg)
PNLLAYON-3030	WW-NW-CW	220-240V AC	15	1.353	300x300	1,1
PNLLAYON-3060	WW-NW-CW	220-240V AC	22	2.300	300x600	2,0
PNLLAYON-6060	WW-NW-CW	220-240V AC	26	3.507	600x600	3,2
PNLLAYON-6060	WW-NW-CW	220-240V AC	34	4.175	600x600	3,2
PNLLAYON-6060	WW-NW-CW	220-240V AC	38	4.843	600x600	3,2
PNLLAYON-30120	WW-NW-CW	220-240V AC	38	4.446	300x1200	3,3
PNLLAYON-60120	WW-NW-CW	220-240V AC	84	9.256	600x1200	6,0

*Power and Lumen values provided are based off of a cold white (CW) LED.

C Light Color Options

WW: Warm White	3000K
NW: Natural White	4000K
CW: Cold White	6500K

*Different colors are optional

S Driver Options

- 01 Standard Driver
- 06 DALI Driver
- 11 Driver + Emergency Lighting Kit 1h
- 12 Driver + Emergency Lighting Kit 3h



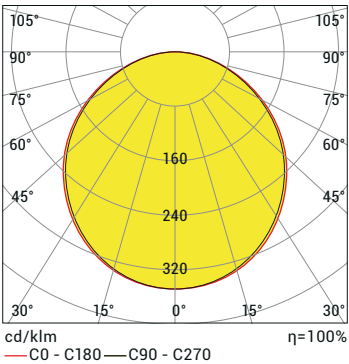
Order Code

P . W . C . S

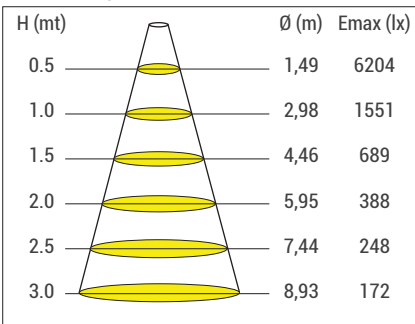


Product Diagrams

Polar Diagram



Conical Diagram

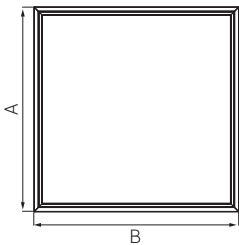
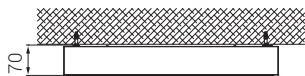
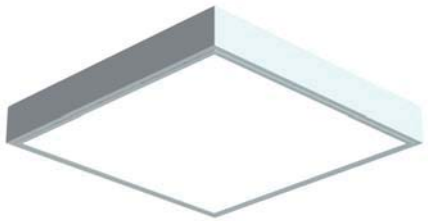


PANEL LAY ON 60x60 CW 120D 43W 220V AC IP40

Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW				•	•	•
R,G,B,A						
RGB						
RGBA/W						
RGB DMX						
WHITE DMX						





- Electrostatic painted DKP body
- Electrostatic painted DKP frame
- High efficiency low-glare (UGR <19) homogeneous light diffuser
- Efficiency exceeding 100lm/W with backlight technology
- Suitable for surface mount

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Dimensions (AxB) (mm)	Weight (kg)
PNLSURFACE-3030	WW-NW-CW	220-240V AC	15	1.014	300x300	1,3
PNLSURFACE-3060	WW-NW-CW	220-240V AC	22	1.978	300x600	2,4
PNLSURFACE-6060	WW-NW-CW	220-240V AC	30	3.160	600x600	4,0
PNLSURFACE-6060	WW-NW-CW	220-240V AC	34	4.175	600x600	4,0
PNLSURFACE-6060	WW-NW-CW	220-240V AC	42	4.236	600x600	4,0
PNLSURFACE-30120	WW-NW-CW	220-240V AC	42	4.450	300x1200	4,2
PNLSURFACE-60120	WW-NW-CW	220-240V AC	86	8.780	600x1200	7,5

*Power and Lumen values provided are based off of a cold white (CW) LED.

C Light Color Options

WW: Warm White	3000K
NW: Natural White	4000K
CW: Cold White	6500K

*Different colors are optional

S Driver Options

01	Standard Driver
06	DALI Driver
11	Driver + Emergency Lighting Kit 1h
12	Driver + Emergency Lighting Kit 3h



Order Code

P . W . C . S

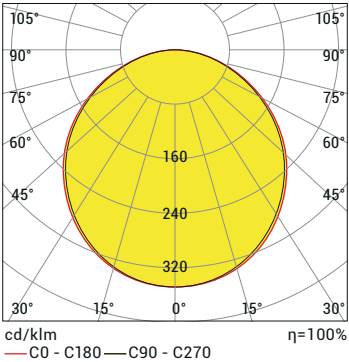


Downlight

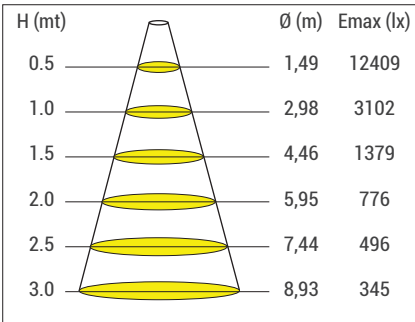
PANEL SURFACE

Product Diagrams

Polar Diagram



Conical Diagram



PANEL SURFACE 60x120 CW 120D 86W 220V AC IP40

Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW				•	•	•
R,G,B,A						
RGB						
RGBA/W						
RGB DMX						
WHITE DMX						





LL

DP

CD

WW

CS

CF

AC

CG

CB

HB

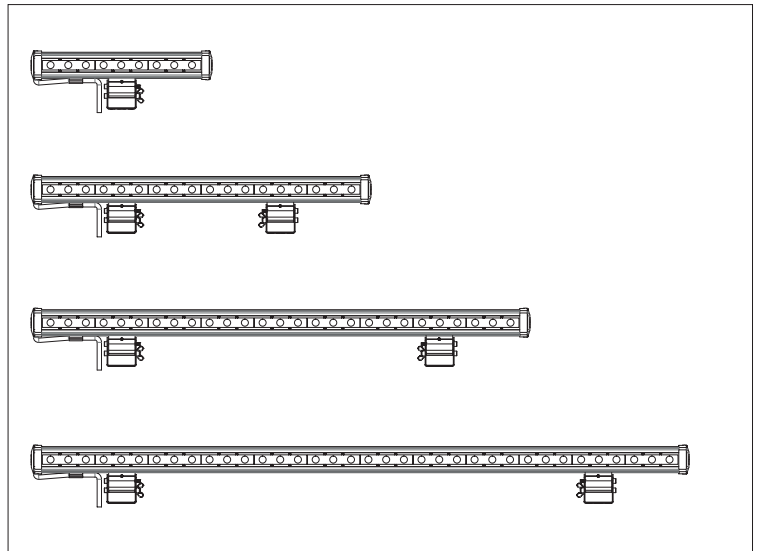
MM

RDMX

LC

FO

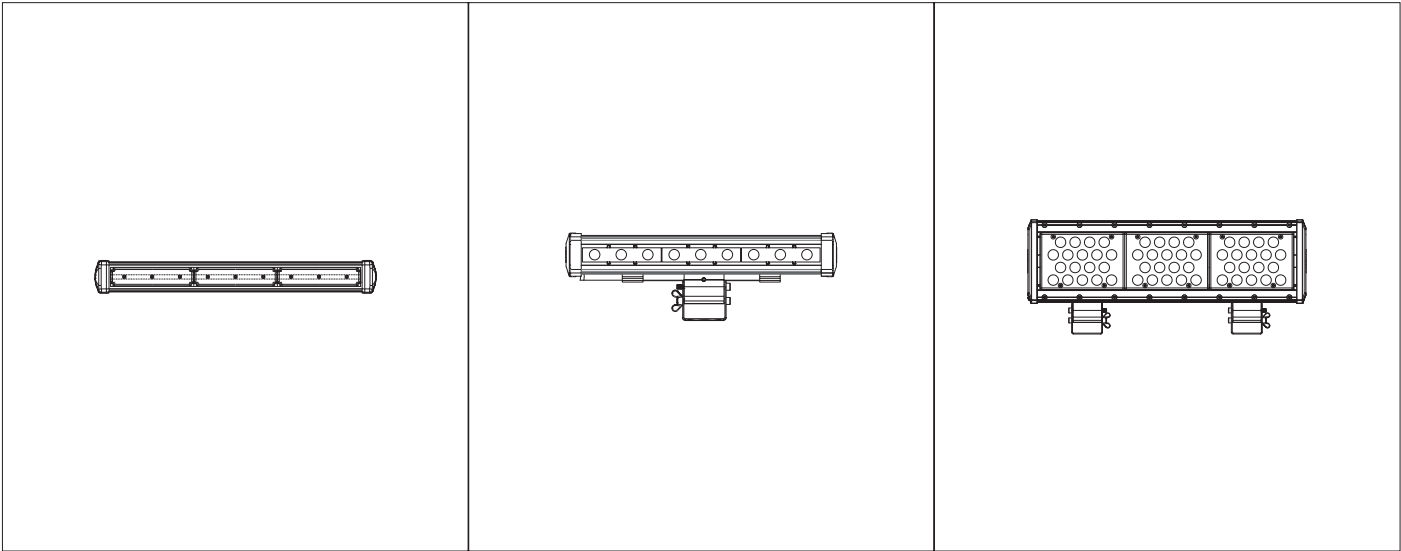
EL



• Wall Washer

The wallwasher series offers ideal lighting solutions for indoor and outdoor venues. These luminaires are utilised for the purpose of illuminating structures spread on high on capacious areas. They particularly render homogeneous and linear lighting on the surfaces of historical and modern structures such as stadiums, monuments, bridges. The luminaires provide high quality solutions and efficiency without being affected by adverse weather conditions due to their powerful technical structures. Luminaires can both be produced as mono colour or RGB, as per order. Also, they provide architects and lighting designers the opportunity to bring their creative ideas to life with a wide range of color options and capability to change colours.

LED Projectors

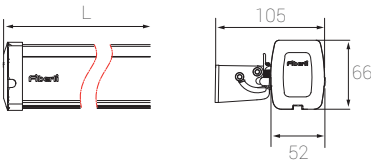


WallWasher - LED Projectors



LED Projectors

WL



- Anodized aluminum extruded profile
- Polycarbonate luminaire glass
- PVC side covers with invisible gland outlet and UV protection
- Stainless steel fixture stand
- High efficiency group lens
- IP68 air vent

P W Product & Power Options

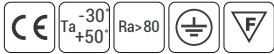
Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Length (L) (mm)	Weight (kg)
WL033	CW,NW,WW	220-240V AC	4	408	100	0,4
WL066	CW,NW,WW	220-240V AC	8	794	200	0,7
WL109	CW,NW,WW	220-240V AC	12	1.217	300	1,0
WL112	CW,NW,WW	220-240V AC	16	1.550	300	1,0
WL218	CW,NW,WW	220-240V AC	22	2.443	600	1,5
WL224	CW,NW,WW	220-240V AC	30	2.908	600	1,5
WL327	CW,NW,WW	220-240V AC	32	3.682	900	2,4
WL336	CW,NW,WW	220-240V AC	44	4.496	900	2,4
WL436	CW,NW,WW	220-240V AC	42	4.862	1.200	2,9
WL448	CW,NW,WW	220-240V AC	58	5.524	1.200	2,9
WL109 DMX	RGB	220-240V AC	16	-	300	1,0
WL112 DMX	RGB	220-240V AC	30	-	300	1,0
WL218 DMX	RGB	220-240V AC	25	-	600	1,5
WL224 DMX	RGB	220-240V AC	36	-	600	1,5
WL327 DMX	RGB	220-240V AC	36	-	900	2,4
WL336 DMX	RGB	220-240V AC	48	-	900	2,4
WL436 DMX	RGB	220-240V AC	48	-	1.200	2,9
WL448 DMX	RGB	220-240V AC	63	-	1.200	2,9
WL112 PDMX	RGB/W/A	220-240V AC	18	-	300	1,0
WL224 PDMX	RGB/W/A	220-240V AC	30	-	600	1,5
WL336 PDMX	RGB/W/A	220-240V AC	48	-	900	2,4
WL448 PDMX	RGB/W/A	220-240V AC	63	-	1.200	2,9
WL033	RGB	7,5V DC	8	-	100	0,3
WL109	RGB	12V DC	13	-	300	0,9
WL218	RGB	24V DC	26	-	600	1,4
WL327	RGB	12V DC	38	-	900	2,3
WL436	RGB	24V DC	51	-	1.200	2,8
WL112	RGB	15-24V DC	13,5	-	300	0,3
WL224	RGB	15-24V DC	31	-	600	1,4
WL336	RGB	15-24V DC	47	-	900	2,3
WL448	RGB	15-24V DC	62	-	1200	2,8

*Power and Lumen values provided are based off of a "cold white (CW) LED".



Order Code

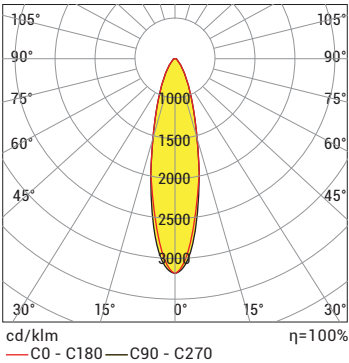
P . W . C . S . O . J . K . M



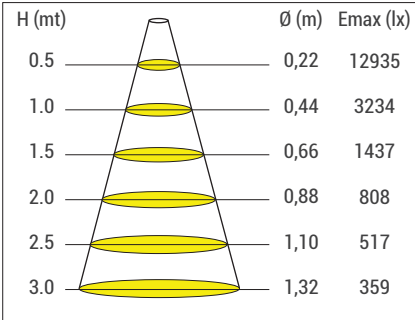
Please contact our sales representatives for special application requests other than the standard product.

Product Diagrams

Polar Diagram

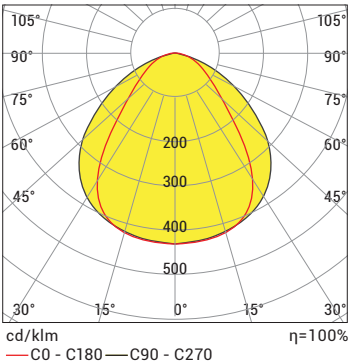


Conical Diagram

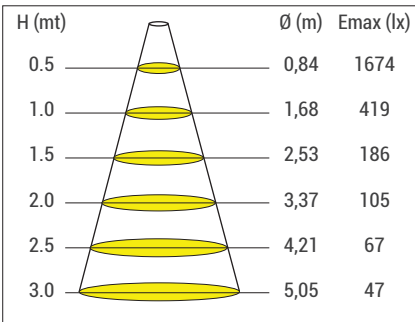


WL109 CW 10D 12 W 220V AC IP66

Polar Diagram



Conical Diagram



WL109 CW 120D 12 W 220V AC IP66



C Light Color Options

WW: Warm White	3000K	R: Red	625nm	RGB
NW: Natural White	4000K	G: Green	525nm	RGBW
CW: Cold White	6500K	B: Blue	465nm	RGBW
		A: Amber	590nm	RGBA

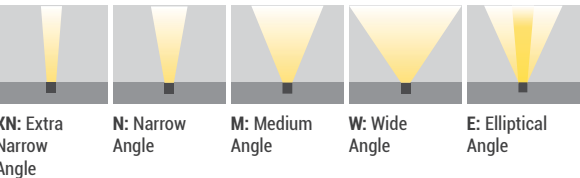
*Different colors are optional

S Driver Options

01 Standard Driver

06 DALI Driver

O Lens Options



J Junction Options

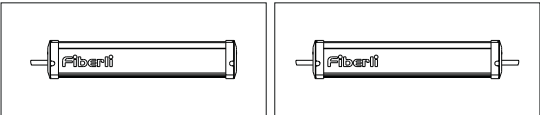


01: Cable

02: IP Socket



K Cable Direction Options



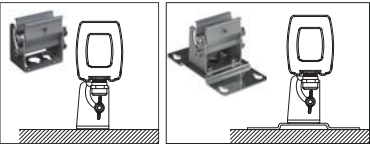
01: Single entry

03: Dual entry and exit *

**The max. junction qty may vary for the products with both entry and exit*

M Mounting Options

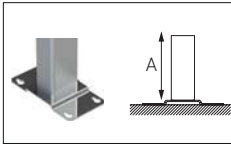
Stand connector



20: Standard Stand

21: Standard stand/
Mounting kit

Optional Accessories



34: Extension piece A=5cm

35: Extension piece A=10cm

36: Extension piece A=20cm

*Extension pieces at any desired length
are optional*

Connecting fittings



Additional Pieces Options



Dual assembly



Ternary assembly



Quaternary assembly



Merkez Efendi Complex, İstanbul

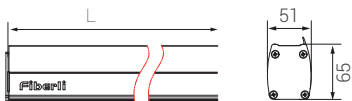
Control System Options

Color Type	PWM	INV PWM	DMX	DALI *	0-10V DC *	TRIAC
WW-NW-CW	•		•	•	•	
R,G,B,A	•		•	•	•	
RGB		•				
RGBA/W ***		•				
RGB DMX			•			
WHITE DMX			•			

Product Code	Voltage (V DC)	Control Systems	Cable Core Quantity		
			Mono	RGB	RGB W/A
WL033	7,5	PWM	-	4x	-
	12	PWM	2x	-	-
WL066	7,5	PWM	-	4x	-
	12	PWM	2x	-	-
WL109	12	PWM	2x	4x	-
	12-24	-	3x	5x	-
WL112	15-24	INV-PWM	3x	5x	6x
	15-24	ON/OFF	2x	-	-
WL218	24	PWM	2x	4x	-
	12-24	ON/OFF	2x	-	-
	12-24	INV-PWM	3x	5x	-
WL224	15-24	INV-PWM	3x	5x	6x
	15-24	ON/OFF	2x	-	-
WL327	12	PVM	2x	4x	-
	12-24	ON/OFF	2x	-	-
	12-24	INV-PWM	3x	5x	-
WL336	15-24	INV-PWM	3x	5x	6x
	15-24	ON/OFF	2x	-	-
WL436	24	PWM	2x	4x	-
	12-24	ON/OFF	2x	-	-
	12-24	INV-PWM	3x	5x	-
WL448	15-24	INV-PWM	3x	5x	6x
	15-24	ON/OFF	2x	-	-



La Sagrada Hotel, İstanbul



- Anodized aluminum extruded profile
- Stainless steel fixture stand
- Tempered luminaire glass
- 316 L chrome side covers
- IP68 air vent

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Length (L) (mm)	Weight (kg)
WLT112	WW-NW-CW	220-240V AC	20	2.424	330	1,2
WLT224	WW-NW-CW	220-240V AC	35	4.335	625	2,0
WLT336	WW-NW-CW	220-240V AC	50	6.322	920	2,7
WLT448	WW-NW-CW	220-240V AC	65	8.023	1215	3,4
WLT112 DMX	RGB	220-240V AC	30	-	330	1,2
WLT224 DMX	RGB	220-240V AC	36	-	625	2,0
WLT336 DMX	RGB	220-240V AC	48	-	920	2,7
WLT448 DMX	RGB	220-240V AC	63	-	1215	3,4
WLT112 PDMX	RGB/W/A	220-240V AC	18	-	330	1,2
WLT224 PDMX	RGB/W/A	220-240V AC	30	-	625	2,0
WLT336 PDMX	RGB/W/A	220-240V AC	48	-	920	2,7
WLT448 PDMX	RGB/W/A	220-240V AC	63	-	1215	3,4
WLT112	RGB	15-24V DC	13,5	-	330	1,0
WLT224	RGB	15-24V DC	31	-	625	1,8
WLT336	RGB	15-24V DC	47	-	920	2,5
WLT448	RGB	15-24V DC	62	-	1215	3,0

*Power and Lumen values provided are based off of a "cold white (CW) LED".

C Light Color Options

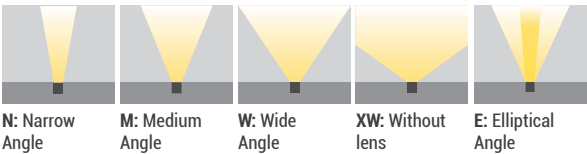
WW: Warm White 3000K	R: Red 625nm	RGB
NW: Natural White 4000K	G: Green 525nm	RGBW
CW: Cold White 6500K	B: Blue 465nm	RGBA
	A: Amber 590nm	

*Different colors are optional

S Driver Options

- 01 Standard Driver
- 06 DALI Driver

O Lens Options



Order Code

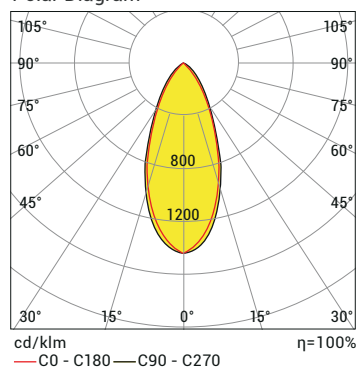
P . W . C . S . O . J . K . U . M



Please contact our sales representatives for special application requests other than the standard product.

Product Diagrams

Polar Diagram

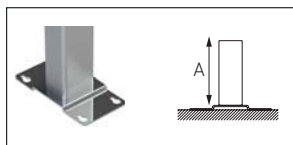


Conical Diagram

H (mt)	$\varnothing$ (m)	E _{max} (lx)
0.5	0,22	33782
1.0	0,44	8446
1.5	0,65	3754
2.0	0,87	2111
2.5	1,09	1351
3.0	1,31	938

WLT224 CW65 60D 35W 220VAC IP66

Optional Accessories



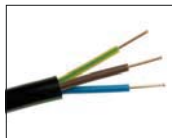
34: Extension piece $A=5\text{cm}$

35: Extension piece A=10cm

36: Extension piece A=20cm

Extension pieces at any desired length are optional

J Junction Options

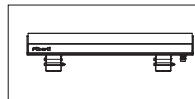


01: Cable

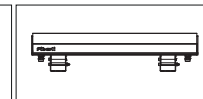


02: IP Socket

K Cable Direction Options

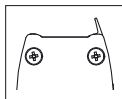


01: Single entry

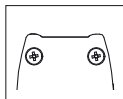


03: Dual entry and exit

U Upper Cover Options

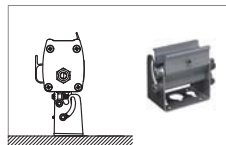


With Glare
Shield

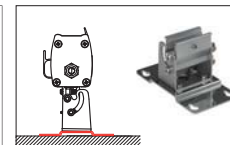


Without Glare
Shield

M Mounting Options



20: Standard Stand



21: Standard stand/
Mounting kit

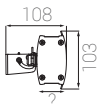
Control System Options

Color Type	PWM	INV PWM	DMX	DALI *	0-10V DC*	TRIAC
WW-NW-CW 	●		●	●	●	
R,G,B,A 	●		●	●	●	
RGB* 	●	●				
RGBA/W*** 		●				
RGB DMX 			●			
WHITE DMX 			●			

Product Code	Voltage (V DC)	Control Systems	Cable Core Quantity		
			Mono	RGB	RGB W/A
WLT112	15-24	INV-PWM	3x	5x	6x
	15-24	ON/OFF	2x	-	-
WLT224	15-24	INV-PWM	3x	5x	6x
	15-24	ON/OFF	2x	-	-
WLT336	15-24	INV-PWM	3x	5x	6x
	15-24	ON/OFF	2x	-	-
WLT448	15-24	INV-PWM	3x	5x	6x
	15-24	ON/OFF	2x	-	-



Irgandı, Bursa



- Anodized aluminum extrusion profile
- Body design with two-way light output
- Tempered armature glass
- Chrome luminare stand with adjustable angle
- High-strength metal gland outlet
- High efficiency lens
- 316 L chrome side covers

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Length (L) (mm)	Weight (kg)
WLTC006	WW-NW-CW	220-240V AC	8	880	110	0,6
WLTC012	WW-NW-CW	220-240V AC	15	1.650	183	0,9
WLTC124	WW-NW-CW	220-240V AC	30	3.300	330	1,6
WLTC248	WW-NW-CW	220-240V AC	55	6.050	625	2,7
WLTC372	WW-NW-CW	220-240V AC	75	8.250	920	3,8
WLTC496	WW-NW-CW	220-240V AC	100	11.000	1215	4,9

*Power and Lumen values provided are based off of a "cold white (CW) LED".

C Light Color Options

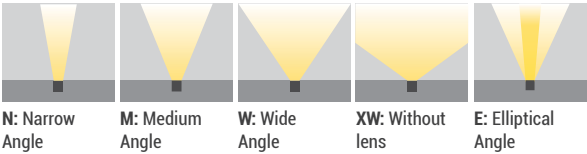
● WW: Warm White	3000K	● R: Red	625nm	● RGB
● NW: Natural White	4000K	● G: Green	525nm	● RGBW
● CW: Cold White	6500K	● B: Blue	465nm	● RGBA
		● A: Amber	590nm	

*Different colors are optional

S Driver Options

- STD Standard Driver
- SDA DALI Driver
- DMX

O Lens Options

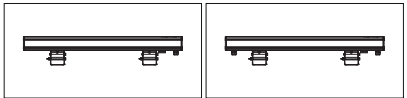


J Junction Options



01: Cable 02: IP Socket

K Cable Direction Options

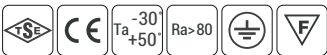


01: Single entry 03: Dual entry and exit

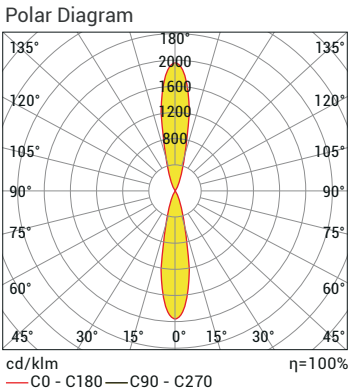


Order Code

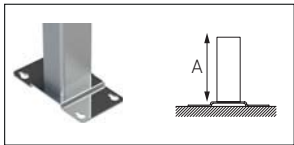
P . W . C . S . O . J . K . U . M



Product Diagrams

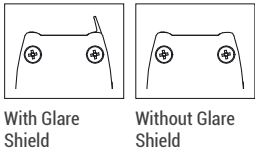


Optional Accessories

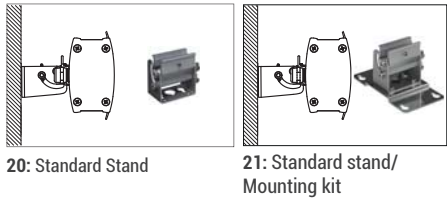


- 34: Extension piece A=5cm
 - 35: Extension piece A=10cm
 - 36: Extension piece A=20cm
- Extension pieces at any desired length are optional

U Upper Cover Options



M Mounting Options

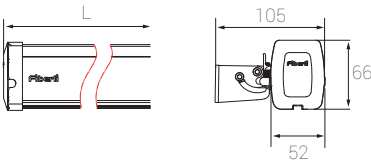


Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW	•		•	•	•	
R,G,B,A	•		•	•	•	
RGB	•	•				
RGBA/W		•				
RGB DMX			•			
WHITE DMX			•			

Product Code	Voltage (V DC)	Control Systems	Cable Core Quantity		
			Mono	RGB	RGB W/A
WLTC124	15-24	INV-PWM	3x	5x	6x
	15-24	ON/OFF	2x	-	-
WLTC248	15-24	INV-PWM	3x	5x	6x
	15-24	ON/OFF	2x	-	-
WLTC372	15-24	INV-PWM	3x	5x	6x
	15-24	ON/OFF	2x	-	-
WLTC496	15-24	INV-PWM	3x	5x	6x
	15-24	ON/OFF	2x	-	-





- Anodized aluminum extruded profile
- Polycarbonate luminaire glass
- PVC side covers with invisible gland outlet and UV protection
- Stainless steel fixture stand
- High efficiency group lens
- IP68 air vent

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Length (L) (mm)	Weight (kg)
WLG2-30	WW-NW-CW	220-240V AC	10	1.012	345	0,94
WLG2-60	WW-NW-CW	220-240V AC	20	2.072	635	1,43
WLG2-90	WW-NW-CW	220-240V AC	28	3.056	630	2,02
WLG2-120	WW-NW-CW	220-240V AC	36	4.081	1220	2,46

*Power and Lumen values provided are based off of a "cold white (CW) LED".

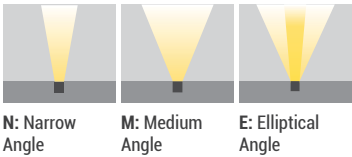
C Light Color Options

● WW: Warm White	3000K
● NW: Natural White	4000K
● CW: Cold White	6500K
● A: Amber	590nm

S Driver Options

- 01 Standard Driver
- 06 DALI Driver

O Lens Options



J Junction Options



01: Cable 02: IP Socket



Order Code

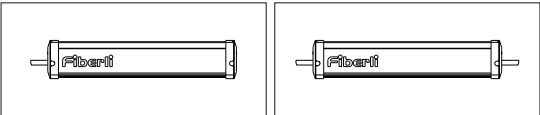
P . W . C . S . O . J . K . M





Sepetçiler Pavilion, İstanbul

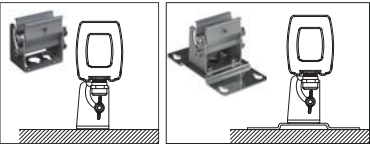
K Cable Direction Options



01: Single entry 03: Dual entry and exit *
*The max. junction qty may vary for the products with both entry and exit

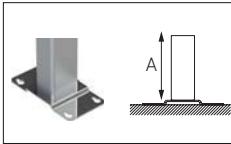
M Mounting Options

Stand connector



20: Standard Stand 21: Standard stand/
Mounting kit

Optional Accessories



34: Extension piece A=5cm
35: Extension piece A=10cm
36: Extension piece A=20cm
Extension pieces at any desired length
are optional

Connecting fittings



Additional Pieces Options



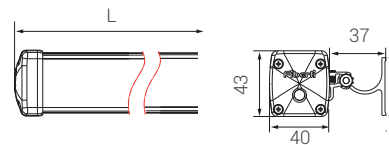
Dual assembly



Ternary assembly



Quaternary assembly



- Anodized aluminum extruded profile
- Anodized aluminum extruded fixture stand
- Polycarbonate luminaire glass
- PVC side covers with invisible gland outlet and UV protection
- High efficiency group lens

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Length (L) (mm)	Weight (kg)
WLM109-DOB	WW-NW-CW	220-240V AC DOB	8	542	300	0,6
WLM218-DOB	WW-NW-CW	220-240V AC DOB	16	1.055	600	0,9
WLM327-DOB	WW-NW-CW	220-240V AC DOB	24	1.572	900	1,4
WLM436-DOB	WW-NW-CW	220-240V AC DOB	36	2.037	1200	1,7
WLM109	RGB,R,G,B,A	24V DC	8	-	300	0,6
WLM218	RGB,R,G,B,A	24V DC	16	-	600	0,9
WLM327	RGB,R,G,B,A	24V DC	24	-	900	1,4
WLM436	RGB,R,G,B,A	24V DC	36	-	1200	1,7
WLMS50-DMX	RGB	24V DC	9	-	500	0,8
WLMS100-DMX	RGB	24V DC	17	-	1000	1,5

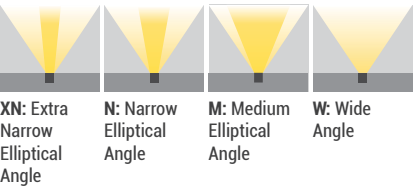
*Power and Lumen values provided are based off of a "cold white (CW) LED".

C Light Color Options

WW: Warm White 3000K	R: Red 625nm
NW: Natural White 4000K	G: Green 525nm
CW: Cold White 6500K	B: Blue 465nm
RGB	A: Amber 590nm

Color alternatives are not available with DOB option.

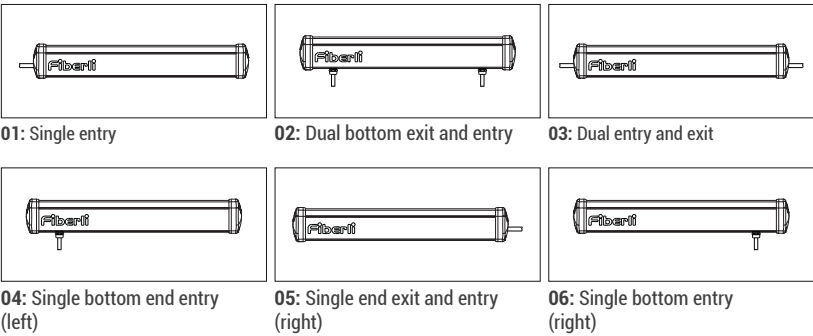
O Lens Options



J Junction Options



K Cable Direction Options*

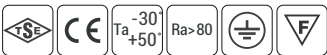


* The max. junction qty may vary for the products with both entry and exit



Order Code

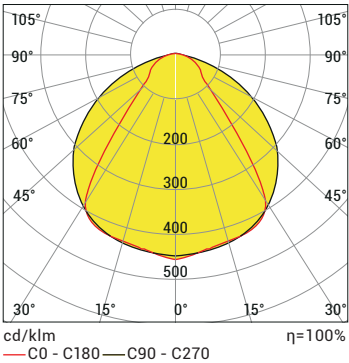
P . W . C . O . J . K



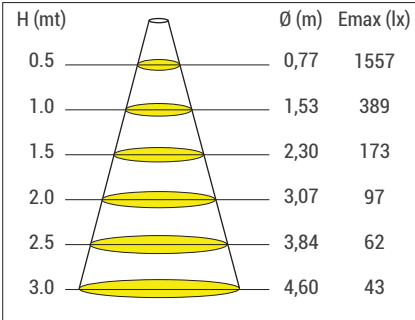
Please contact our sales representatives for special application requests other than the standard product.

Product Diagrams

Polar Diagram

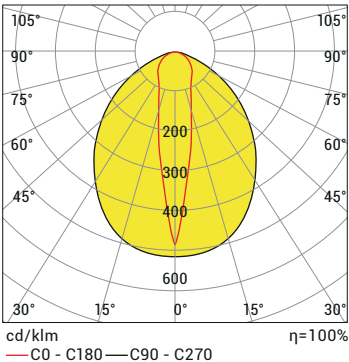


Conical Diagram

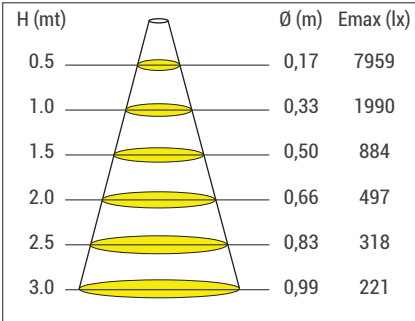


WLM 1 MP12 CW 120D 8W 220V AC IP66

Polar Diagram



Conical Diagram



WLM 4 MP48 CW 10D 36W 220V AC IP66

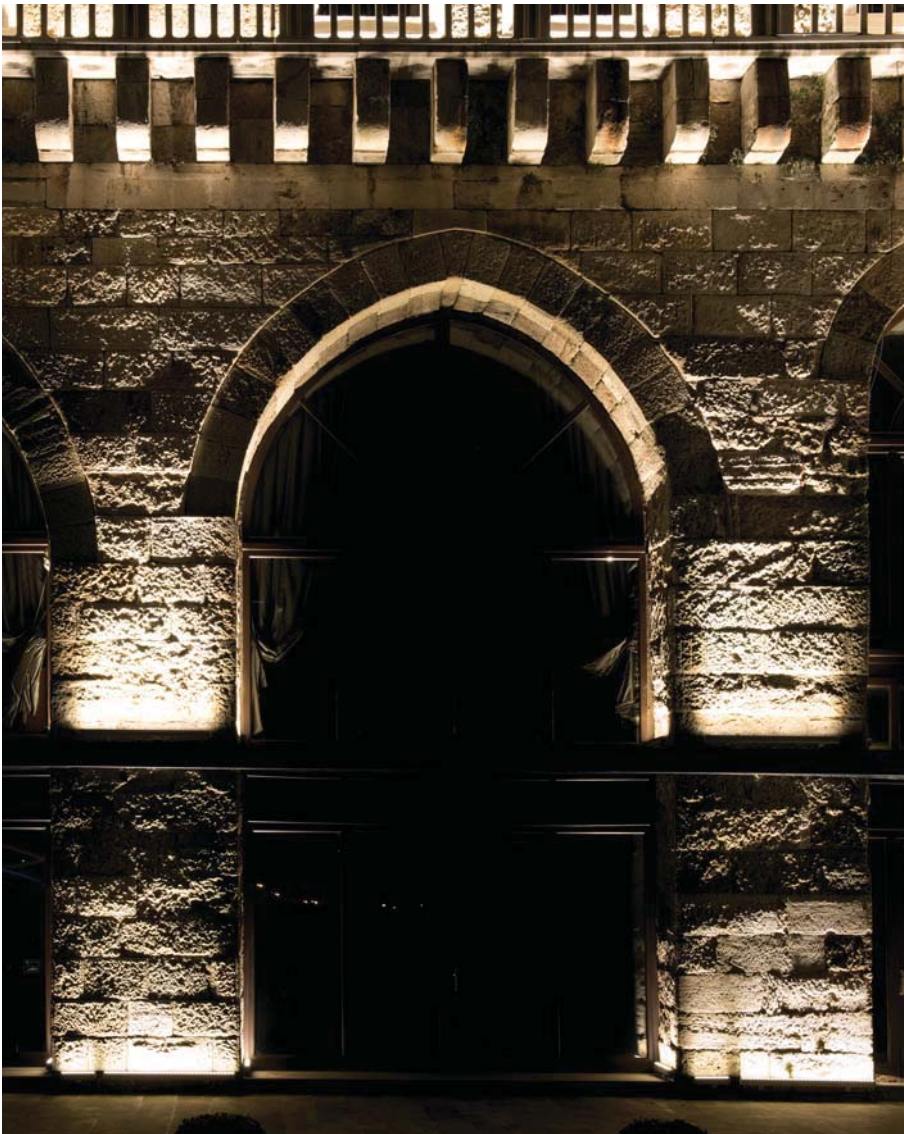


Control System Options

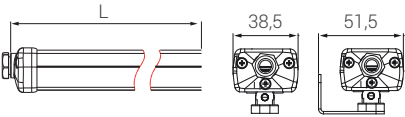
Color Type	PWM	INV PWM	DMX	DALI *	0-10V DC *	TRIAC
WW-NW-CW	•			•	•	
R,G,B,A	•			•	•	
RGB	•					
RGBA/W	•					
RGB DMX			•			
WHITE DMX						

*Only for 24V DC

Product Code	Voltage (V DC)	Control Systems	Cable Core Quantity		
			Mono	RGB	RGB W/A
WLM 109	24	PWM	2x	4x	-
WLM 218	24	PWM	2x	4x	-
WLM 327	24	PWM	2x	4x	-
WLM 436	24	PWM	2x	4x	-



Sepetçiler Pavilion, İstanbul



- Min. 20 micron anodized aluminum extruded profile
- Anodized aluminum extruded fixture stand
- Polycarbonate luminaire glass
- PVC side covers with UV protection
- High efficiency group lens

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Length (L) (mm)	Weight (kg)
WLMS1	WW-NW-CW	24V DC	8	820	300	0,30
WLMS2	WW-NW-CW	24V DC	16	1.640	600	0,50
WLMS3	WW-NW-CW	24V DC	24	2.460	900	0,80
WLMS4	WW-NW-CW	24V DC	36	3.280	1200	1,10
WLMS50-DMX	RGB	24V DC	9	-	500	0,40
WLMS100-DMX	RGB	24V DC	17	-	1000	0,80

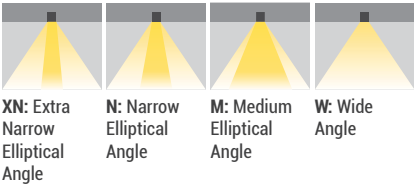
*Power and Lumen values provided are based off of a "cold white (CW) LED".

C Light Color Options

WW: Warm White 3000K	R: Red 625nm
NW: Natural White 4000K	G: Green 525nm
CW: Cold White 6500K	B: Blue 465nm
RGB	A: Amber 590nm

Color alternatives are not available with DOB option.

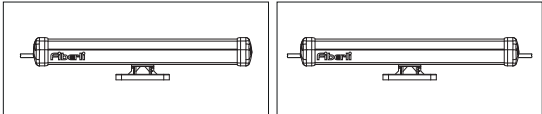
O Lens Options



J Junction Options

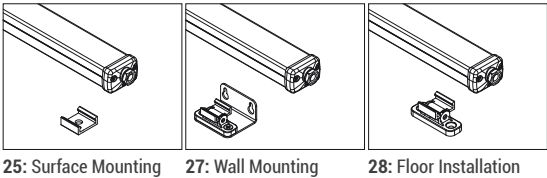


K Cable Direction Options*

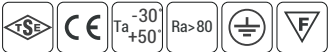


* The max. junction qty may vary for the products with both entry and exit

M Mounting Options

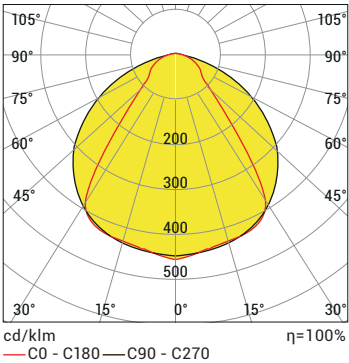


Order Code
P . W . C . O . J . K . M

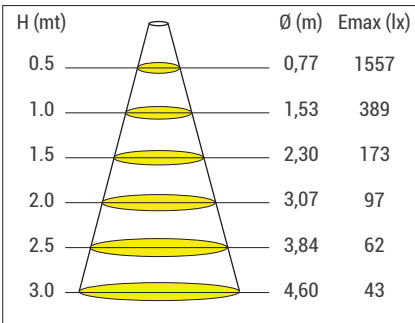


Product Diagrams

Polar Diagram

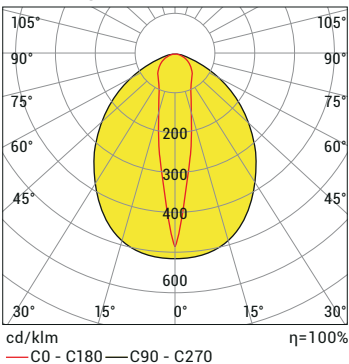


Conical Diagram

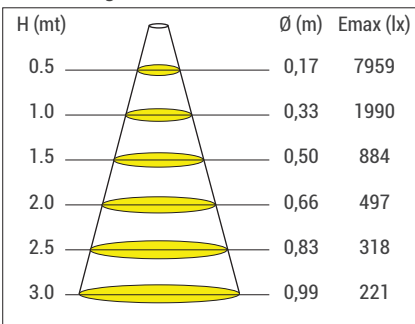


WLMS 1 MP12 CW 120D 8W 220V AC IP66

Polar Diagram



Conical Diagram



WLMS 4 MP48 CW 10D 36W 220V AC IP66



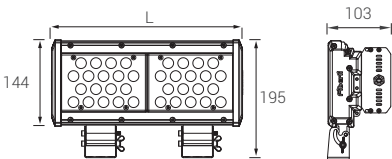
Control System Options

Color Type	PWM	INV PWM	DMX	DALI *	0-10V DC*	TRIAC
WW-NW-CW	•			•	•	
R,G,B,A	•			•	•	
RGB	•					
RGBA/W	•					
RGB DMX			•			
WHITE DMX						

*Only for 24V DC

Product Code	Voltage (V DC)	Control Systems	Cores of Cables Count		
			Mono	RGB	RGB W/A
WLMS 109	24	PWM	2x	4x	-
WLMS 218	24	PWM	2x	4x	-
WLMS 327	24	PWM	2x	4x	-
WLMS 436	24	PWM	2x	4x	-





- Anodized aluminum extruded profile
- Electrostatic powder coated, aluminum injection end cap
- Stainless steel fixture stand
- Polycarbonate luminaire glass
- High efficiency group lens

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Length (L) (mm)	Weight (kg)
WS118	WW-NW-CW	220-240V AC	22	2.399	170	1,8
WS236	WW-NW-CW	220-240V AC	42	4.894	320	2,9
WS354	WW-NW-CW	220-240V AC	62	8.155	480	4,3
WS336	WW-NW-CW	220-240V AC	90	8.642	480	4,3
WS472	WW-NW-CW	220-240V AC	85	11.145	610	5,3
WS118	RGB	24V DC	26	-	170	1,1
WS236	RGB	24V DC	50	-	320	2,0
WS354	RGB	24V DC	75	-	480	3,2
WS472	RGB	24V DC	95	-	610	4,5
WS118-DMX	RGB	220-240V AC	25	-	170	1,8
WS236-DMX	RGB	220-240V AC	48	-	320	2,9
WS354-DMX	RGB	220-240V AC	70	-	480	4,3
WS336-MX	RGB	220-240V AC	85	--	480	4,3
WS472-DMX	RGB	220-240V AC	95	-	610	5,3
WS232-DMX	RGBW/A	220-240V AC	60	-	320	2,9
WS348-DMX	RGBW/A	220-240V AC	95	-	480	4,3
WS464-DMX	RGBW/A	220-240V AC	120	-	610	5,3

*Power and Lumen values provided are based off of a "cold white (CW) LED".

C Light Color Options

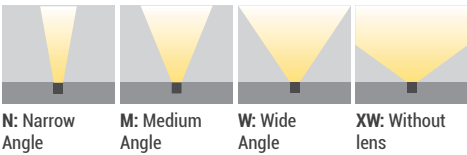
WW: Warm White	3000K	R: Red	625nm	RGB
NW: Natural White	4000K	G: Green	525nm	RGBW
CW: Cold White	6500K	B: Blue	465nm	RGBA
		A: Amber	590nm	

*Different colors are optional

S Driver Options

- 01 Standard Driver
- 06 DALI Driver

O Lens Options

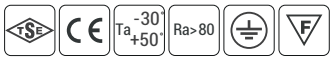


J Junction Options



Order Code

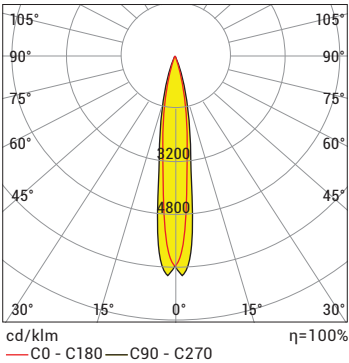
P . W . C . S . O . J . M



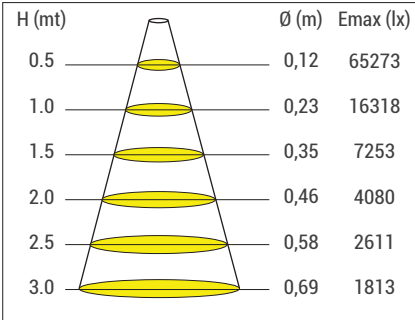
Please contact our sales representatives for special application requests other than the standard product.

Product Diagrams

Polar Diagram

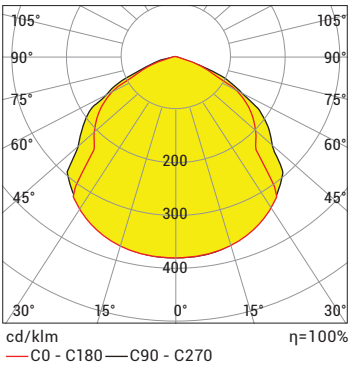


Conical Diagram

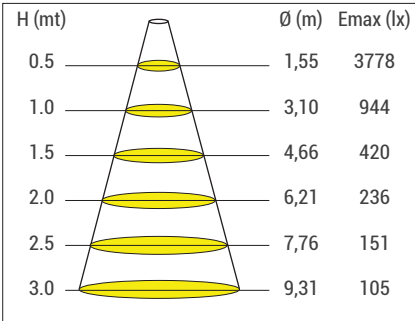


WS118 CW 10D 22W 220V AC IP66

Polar Diagram



Conical Diagram



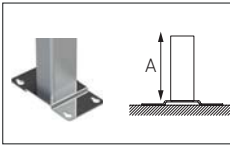
WS118 CW 120D 22W 220V AC IP66

M Mounting Options



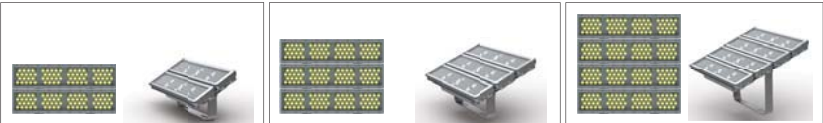
20: Standard Stand 21: Standard stand/ Mounting kit

Optional Accessories



34: Extension piece A=5cm
35: Extension piece A=10cm
36: Extension piece A=20cm
Extension pieces at any desired length are optional

Additional Pieces Options



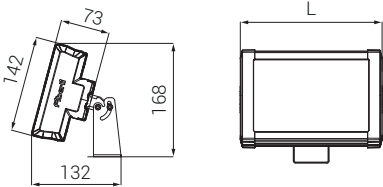
Control System Options

Color Type	PWM	INV PWM	DMX	DALI *	0-10V DC *	TRIAC
WW-NW-CW	•		•	•	•	
R,G,B,A	•		•	•	•	
RGB	•					
RGBA/W **	•		•			
RGB DMX			•			
WHITE DMX			•			

*Only for 24V DC
** Produced as RGBW 16 LED and the multiples.

Product Code	Voltage (V DC)	Control Systems	Cable Core Quantity		
			Mono	RGB	RGB W/A
WS118	24	PWM	2x	4x	-
	15-24	INV-PWM	-	-	6x
WS236	24	PWM	2x	4x	-
	15-24	INV-PWM	-	-	6x
WS336	24	PWM	2x	4x	-
WS354	24	PWM	2x	4x	-
	15-24	INV-PWM	-	-	6x
WS472	24	PWM	2x	4x	-
	15-24	INV-PWM	-	-	6x





- Anodized aluminum extruded profile
- Stainless steel fixture stand
- Polycarbonate luminaire glass
- PC side covers with invisible gland outlet and UV protection.
- High efficiency group lens

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Length (L) (mm)	Weight (kg)
WS1-SMALL	WW-NW-CW	220-240V AC	25	3.068	210	1,8
WS2-SMALL	WW-NW-CW	220-240V AC	50	6.273	361	2,7
WS3-SMALL	WW-NW-CW	220-240V AC	75	9.821	515	3,6
WS4-SMALL	WW-NW-CW	220-240V AC	100	12.973	668	4,7

*Power and Lumen values provided are based off of a lensless product with cold white (CW) LED.

C Light Color Options

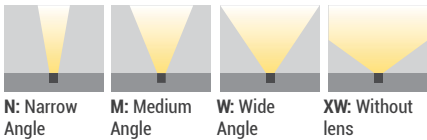
WW: Warm White	3000K
NW: Natural White	4000K
CW: Cold White	6500K
A: Amber	590nm

*Different colors are optional

S Driver Options

- 01 Standard Driver
- 06 DALI Driver

O Lens Options



G Housing Color Options



J Junction Options



Order Code

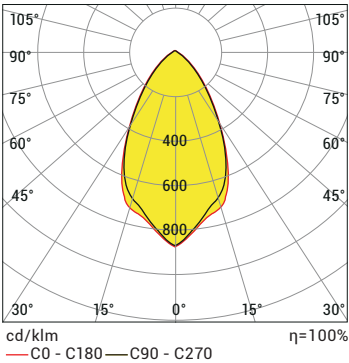
P . W . C . S . O . G . J



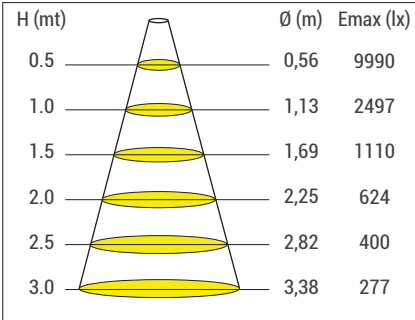
Please contact our sales representatives for special application requests other than the standard product.

Product Diagrams

Polar Diagram



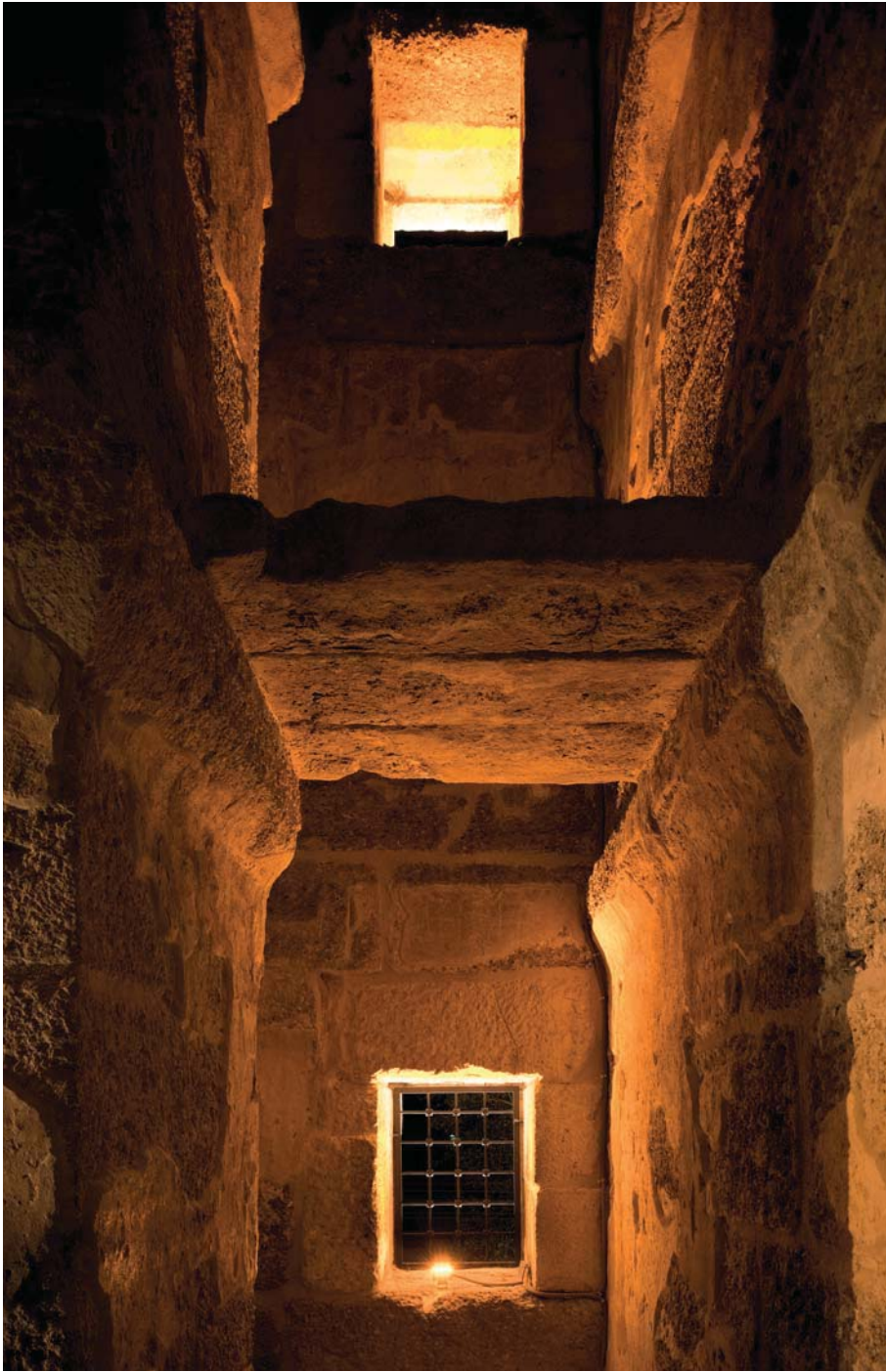
Conical Diagram

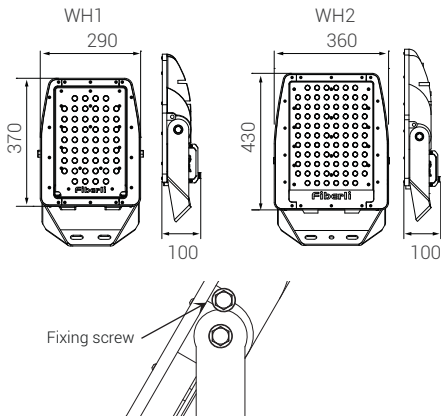


WSSM 72LED CW 60D 25W 220V AC IP66

Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW				•		
R,G,B,A				•		
RGB						
RGBA/W						
RGB DMX						
WHITE DMX						





- Electrostatic powder coated aluminum injection housing
- High cooling capacity body design
- 4mm tempered luminaire glass
- Aluminum injection side covers
- Stainless fittings and clips
- Electrostatic painted DKP / Galvanized mounting feet

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
WH148	WW-NW-CW	220-240V AC	85	9.260	7,5
WH148	WW-NW-CW	220-240V AC	120	13.440	7,7
WH154	WW-NW-CW	220-240V AC	130	12.787	7,7
WH284	WW-NW-CW	220-240V AC	190	21.441	7,7
WH2112	WW-NW-CW	220-240V AC	250	30.000	7,9
WH2228	WW-NW-CW	220-240V AC	300	35.725	7,7
WH154	RGB	220-240V AC	94	-	7,9
WH284	RGB	220-240V AC	147	-	10,3
WH284 DMX	RGB	220-240V AC	160	-	10,7
WH284-DMX	RGBW/A	220-240V AC	220	-	13,0

*Power and Lumen values provided are based off of a "cold white (CW) LED".

C Light Color Options

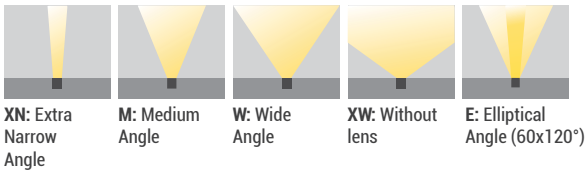
WW: Warm White 3000K	R: Red 625nm	RGB
NW: Natural White 4000K	G: Green 525nm	RGBW
CW: Cold White 6500K	B: Blue 465nm	RGBW
	A: Amber 590nm	RGBA

*Different colors are optional

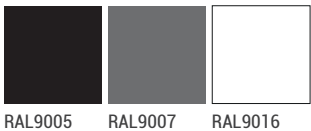
S Driver Options

- 01 Standard Driver
- 06 DALI Driver

O Lens Options



G Housing Color Options



J Junction Options



Order Code

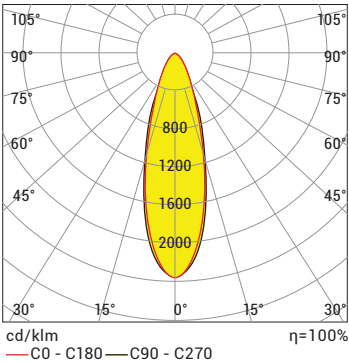
P . W . C . S . O . G . J



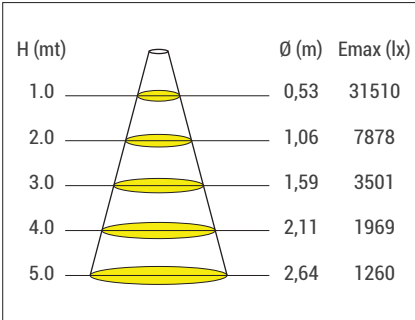
Please contact our sales representatives for special application requests other than the standard product.

Product Diagrams

Polar Diagram

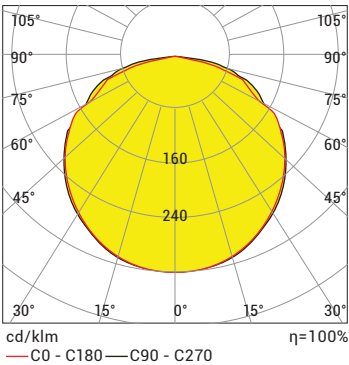


Conical Diagram

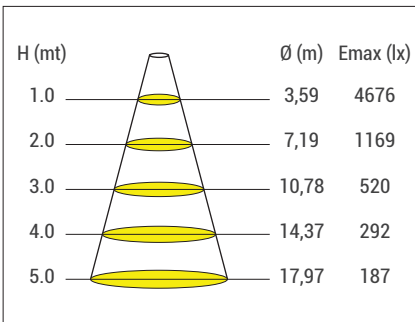


WH154 CW 25D 130W 220V AC IP66

Polar Diagram



Conical Diagram



WH154 CW 120D 130W 220V AC



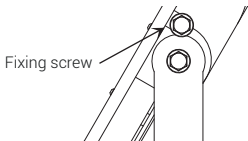
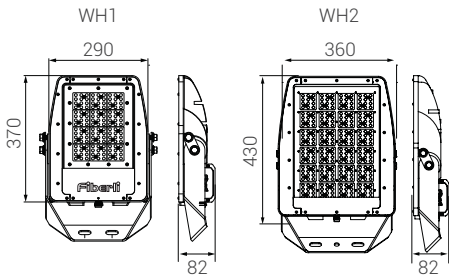
Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW	•		•	•	•	
R,G,B,A	•		•	•	•	
RGB	•					
RGBA/W	•		•			
RGB DMX			•			
WHITE DMX			•			

Product Code	Voltage (V DC)	Control Systems	Cable Core Quantity		
			Mono	RGB	RGB W/A
WH136	24	INV-PWM	3x	5x	-
WH154	24	INV-PWM	3x	5x	-
WH284	24	INV-PWM	3x	5x	6x



Aspendos Antique Theater, Antalya



- Electrostatic powder coated aluminum injection housing
- High cooling capacity body design
- 4mm tempered luminaire glass
- Aluminum injection side covers
- Stainless fittings and clips
- Electrostatic painted DKP / Galvanized mounting feet

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
WH196	WW-NW-CW	220-240V AC	85	10.834	9,4
WH196	WW-NW-CW	220-240V AC	100	12.200	9,5
WH1144	WW-NW-CW	220-240V AC	110	14.528	9,5
WH1144	WW-NW-CW	220-240V AC	150	18.500	9,5
WH2192	WW-NW-CW	220-240V AC	200	23.397	11,0
WH2288	WW-NW-CW	220-240V AC	300	34.271	13,0

*Power and Lumen values provided are based off of a "cold white (CW) LED".

C Light Color Options

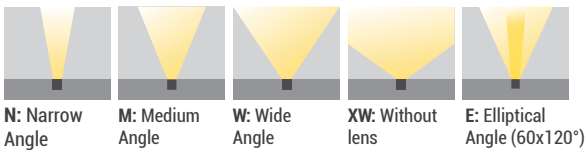
● WW: Warm White	3000K
● NW: Natural White	4000K
● CW: Cold White	6500K

*Different colors are optional

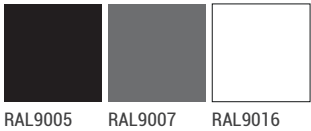
S Driver Options

- 01 Standard Driver
- 06 DALI Driver

O Lens Options



G Housing Color Options

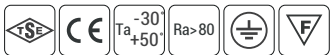


J Junction Options



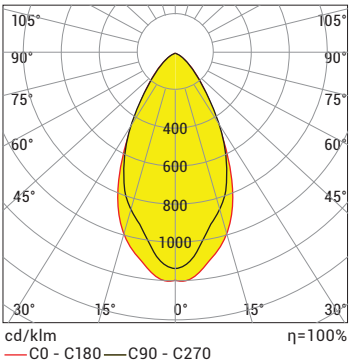
Order Code

P . W . C . S . O . G . J

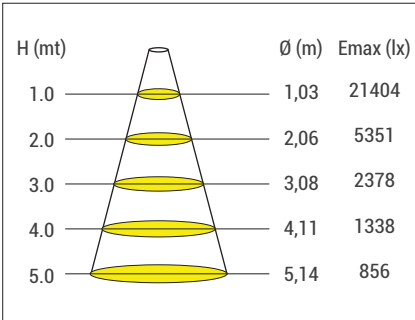


Product Diagrams

Polar Diagram

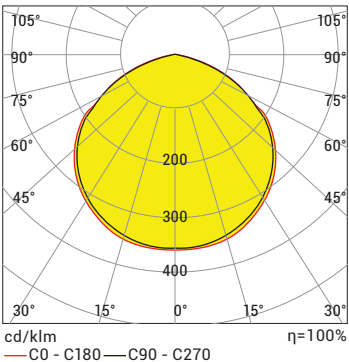


Conical Diagram

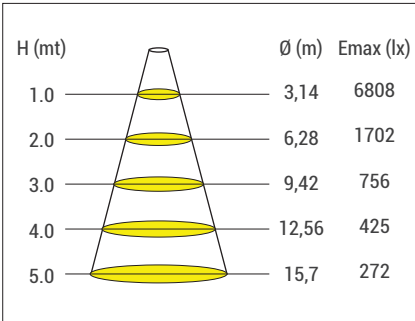


WH1 ECO 144 CW 60D 150 W 220V AC

Polar Diagram



Conical Diagram



WH1 ECO 144 CW 120D 150 W 220V AC

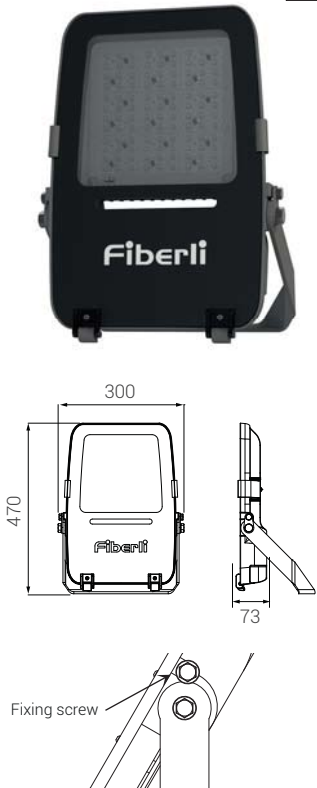


Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW				•	•	
R,G,B,A						
RGB						
RGBA/W						
RGB DMX						
WHITE DMX						



Mardan Palace Hotel, Antalya



- Electrostatic powder coated aluminum injection housing
- High cooling capacity body design
- 4mm, tempered luminaire glass
- Aluminum injection side covers
- Stainless fittings and clips
- Electrostatic painted DKP / Galvanized mounting feet
- 10kV lightning protection circuit

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
WH9	WW-NW-CW	220-240V AC	30	3.724	5,20
WH9	WW-NW-CW	220-240V AC	60	8.420	5,20
WH9	WW-NW-CW	220-240V AC	80	10.829	5,20

*Power and Lumen values provided are based off of a "cold white (CW) LED".

C Light Color Options

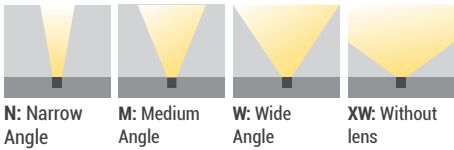
WW: Warm White	3000K
NW: Natural White	4000K
CW: Cold White	6500K

*Different colors are optional

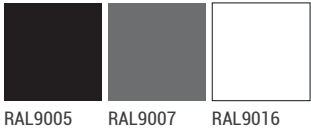
S Driver Options

- 01 Standard Driver
- 06 DALI Driver

O Lens Options



G Housing Color Options



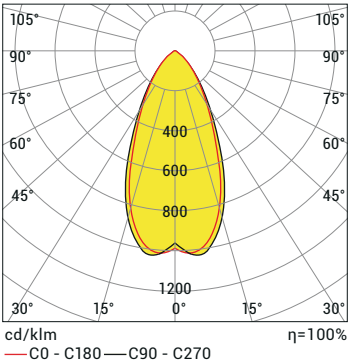
Order Code

P . W . C . S . O . G

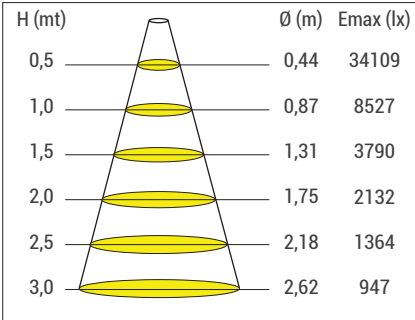


Product Diagrams

Polar Diagram



Conical Diagram

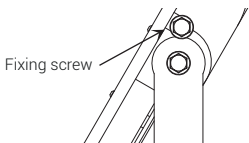
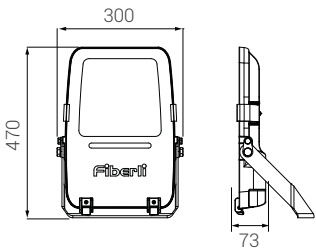


WH9 108 CW 30D 60W 220V AC IP66

Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW				•	•	
R,G,B,A						
RGB						
RGBA/W						
RGB DMX						
WHITE DMX						





- Electrostatic powder coated aluminum injection housing
- High cooling capacity body design
- 4mm tempered luminaire glass
- Aluminum injection side covers
- Stainless fittings and clips
- Electrostatic painted DKP / Galvanized mounting feet

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
WH9-TECO	WW-NW-CW	220-240V AC	30	3.660	5,20
WH9-TECO	WW-NW-CW	220-240V AC	50	6.100	5,20
WH9-TECO	WW-NW-CW	220-240V AC	75	9.150	5,20
WH9-TECO	WW-NW-CW	220-240V AC	100	12.200	5,20
WH9-TECO	WW-NW-CW	220-240V AC	125	15.250	5,20

*Power and Lumen values provided are based off of a "cold white (CW) LED".

C Light Color Options

WW: Warm White	3000K
NW: Natural White	4000K
CW: Cold White	6500K

*Different colors are optional

G Housing Color Options

RAL9005	RAL9007	RAL9016

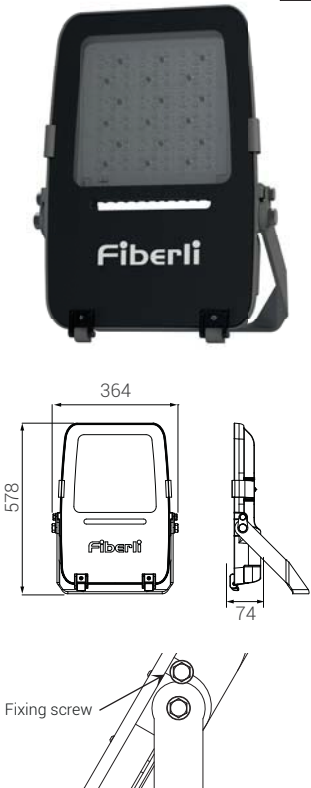


Order Code

P . W . C . G



Please contact our sales representatives for special application requests other than the standard product.



- Electrostatic powder coated aluminum injection housing
- High cooling capacity body design
- 4mm, tempered luminaire glass
- Aluminum injection side covers
- Stainless fittings and clips
- Electrostatic painted DKP / Galvanized mounting feet

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
WH16	WW-NW-CW	220-240V AC	100	15.018	6,9
WH16	WW-NW-CW	220-240V AC	150	20.000	6,9
WH16	WW-NW-CW	220-240V AC	200	24.957	6,9

*Power and Lumen values provided are based off of a "cold white (CW) LED".

C Light Color Options

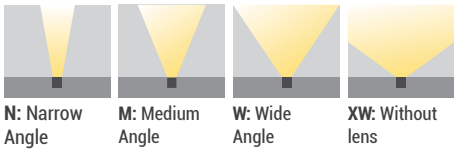
WW: Warm White	3000K
NW: Natural White	4000K
CW: Cold White	6500K

*Different colors are optional

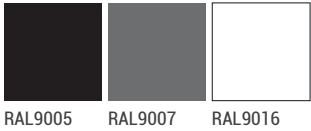
S Driver Options

- 01 Standard Driver
- 06 DALI Driver

O Lens Options



G Housing Color Options



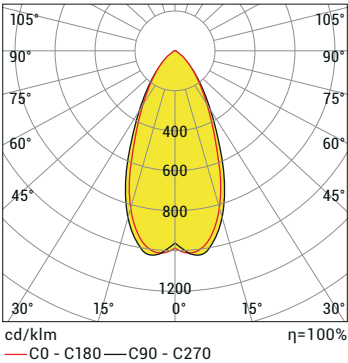
Order Code

P . W . C . S . O . G

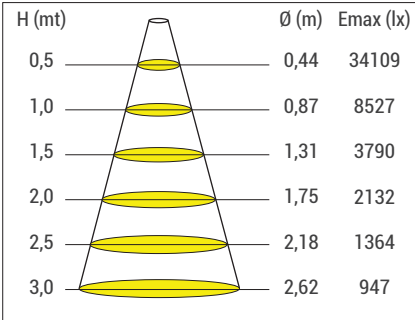


Product Diagrams

Polar Diagram



Conical Diagram



WH9 108 CW 30D 60W 220V AC IP66

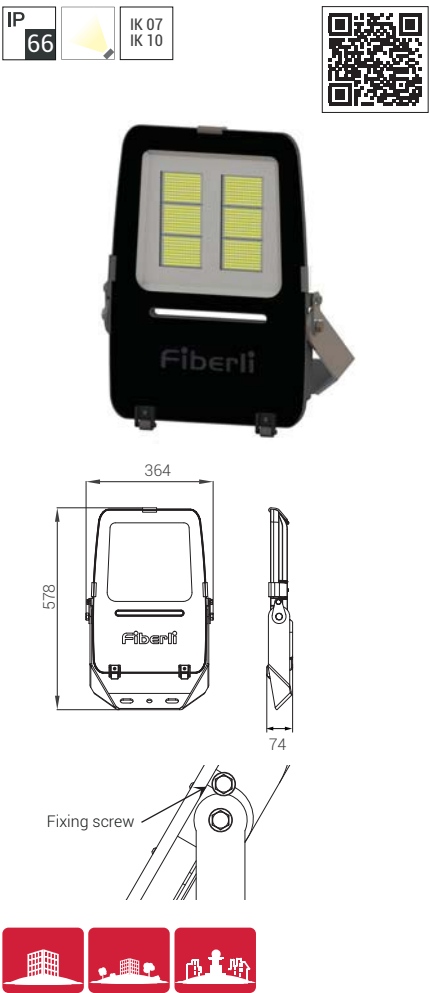
Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW				•	•	
R,G,B,A						
RGB						
RGBA/W						
RGB DMX						
WHITE DMX						



Langirt Sports Facilities, İzmir





- Electrostatic powder coated aluminum injection housing
- High cooling capacity body design
- 4mm tempered luminaire glass
- Aluminum injection side covers
- Stainless fittings and clips
- Electrostatic painted DKP / Galvanized mounting feet

PW

Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
WH16-TECO	WW-NW-CW	220-240V AC	150	18.300	6,90
WH16-TECO	WW-NW-CW	220-240V AC	200	24.400	6,90
WH16-TECO	WW-NW-CW	220-240V AC	250	30.500	6,90

*Power and Lumen values provided are based off of a "cold white (CW) LED".

C

Light Color Options

WW: Warm White	3000K
NW: Natural White	4000K
CW: Cold White	6500K

*Different colors are optional

G

Housing Color Options

RAL9005	RAL9007	RAL9016

Order Code

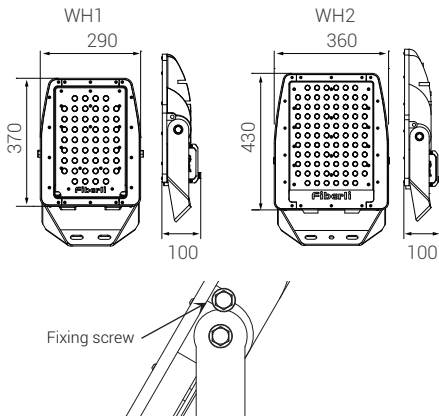
P

W

C

G





- Electrostatic powder coated aluminum injection housing
- 4mm, tempered luminaire glass
- Aluminum injection side covers
- Stainless connectors
- Electrostatic painted DKP / Galvanized mounting feet
- Gas explosion protection: II 3G Ex nR IIC T4 Gc
- Dust explosion protection: II 2D Ex tb IIIC T95° CMax Db
- Conformity to standards: EN 60079-0: 2013, EN 60079-15: 2010, EN 60079-31: 2014
- Certificate number: IEP 15 ATEX 0349

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
WH136-EX	WW-NW-CW	220-240V AC	65	7.100	7,8
WH148-EX	WW-NW-CW	220-240V AC	85	9.260	7,8
WH154-EX	WW-NW-CW	220-240V AC	130	12.787	7,8
WH260-EX	WW-NW-CW	220-240V AC	150	30.000	10,7
WH284-EX	WW-NW-CW	220-240V AC	190	21.441	10,7

*Power and Lumen values provided are based off of a "cold white (CW) LED".

C Light Color Options

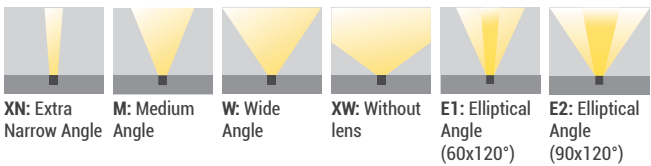
● WW: Warm White	3000K	● R: Red	625nm
● NW: Natural White	4000K	● G: Green	525nm
● CW: Cold White	6500K	● B: Blue	465nm
		● A: Amber	590nm

*Different colors are optional

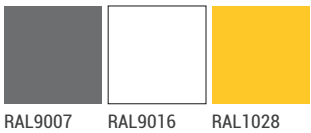
S Driver Options

- 01 Standard Driver
- 06 DALI Driver

O Lens Options



G Housing Color Options



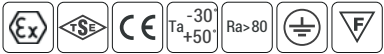
J Junction Options



Order Code

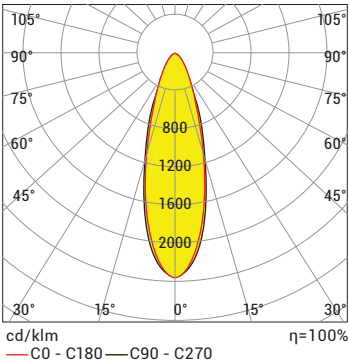
P . W . C . S . O . G . J . M

Please contact our sales representatives for special application requests other than the standard product.

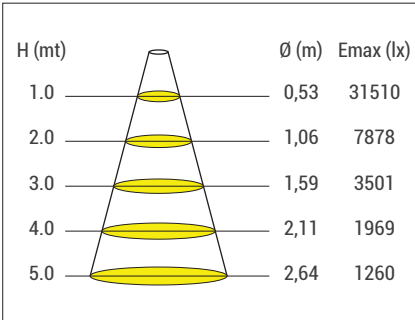


Product Diagrams

Polar Diagram

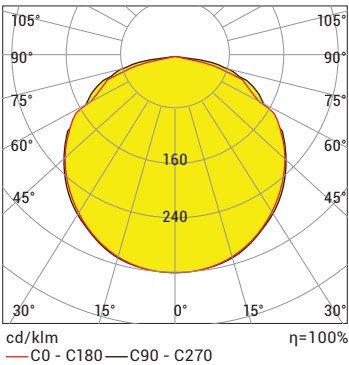


Conical Diagram

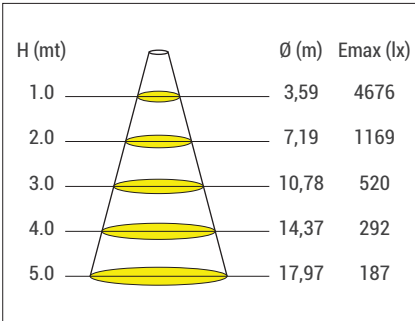


WH154 Ex CW 25D 135W 220V AC IP66

Polar Diagram



Conical Diagram



WH154 Ex CW 120D 128W 220V AC



M Mounting Options



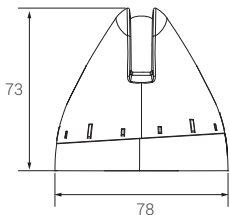
20: Standard Stand 21: Direct mounting kit (optional)
Extension pieces at any desired length are optional

Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW				•		
R,G,B,A				•		
RGB						
RGBA/W						
RGB DMX						
WHITE DMX						



Shipyard lighting



- Electrostatic powder coated aluminum injection housing
- Ultra elliptical 3,8°x116° lens
- Integrated mechanism adjustable up to 7.0 degrees
- Internal drive
- Used on specially designed inclined windows
- Linear lighting effect

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
CD-IZ	WW-NW-CW	220-240V AC	5	400	0,5

*Power and Lumen values provided are based off of a "cold white (CW) LED".

C Light Color Options

WW: Warm White	3000K
NW: Natural White	4000K
CW: Cold White	6500K
A: Amber	590nm

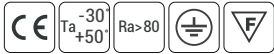
G Housing Color Options

RAL9005	RAL9007	RAL9016



Order Code

P . W . C . G





Aspendos Theatre, Antalya



LL

DP

CD

WW

CS

CF

AC

CG

CB

HB

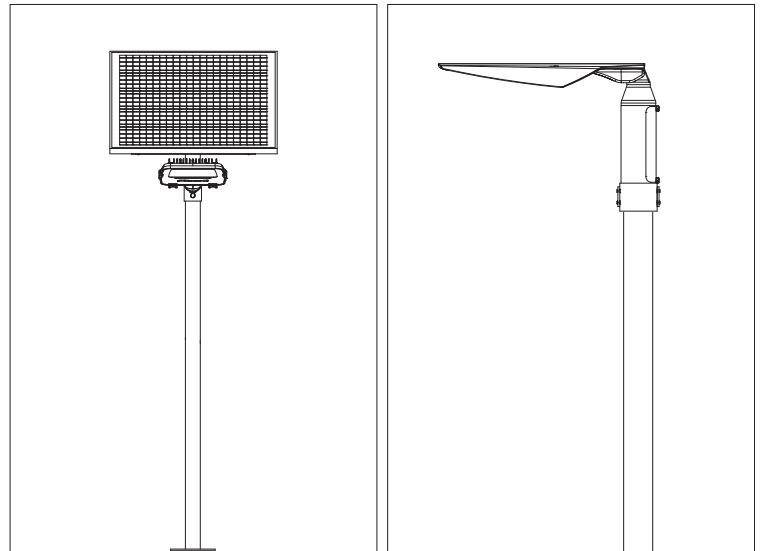
MM

RDMX

LC

FO

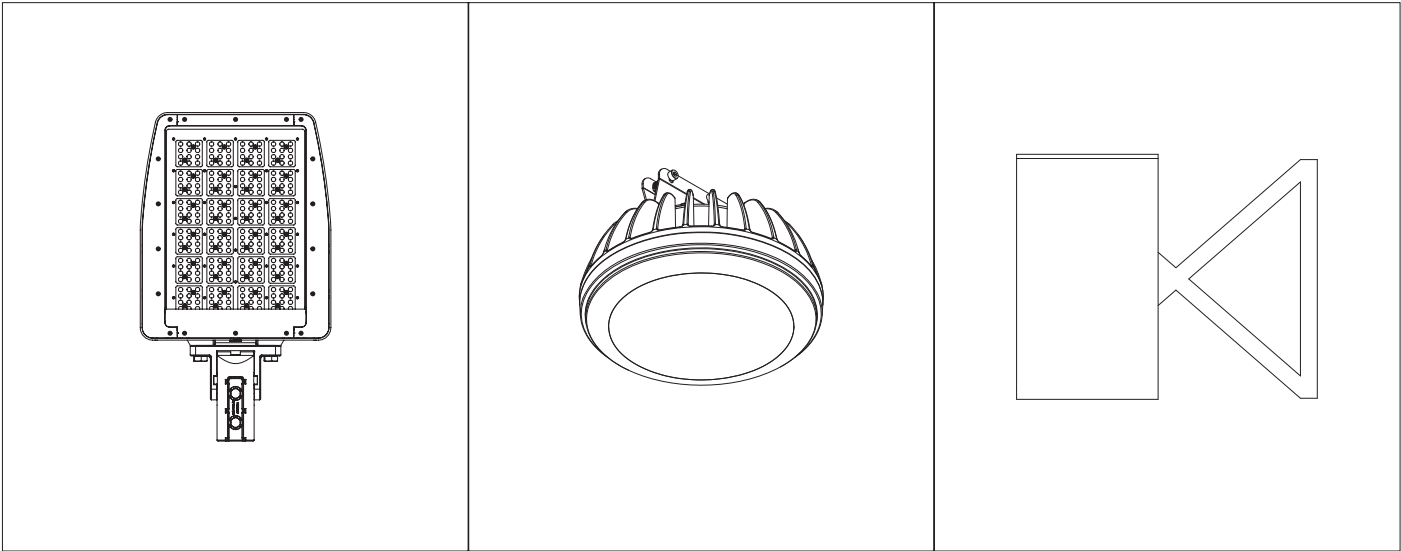
EL



Croma Street

Croma Street is the LED street luminaire, designed to be used on avenues, highways, streets, squares and walking trails. The luminaires are manufactured in three different shades of white; warm white, natural white and cool white. It is an ideal lighting solution, which contributes to a sustainable environment, due to its long lifetime and energy saving conservation.

Street Luminaires

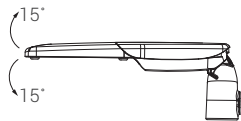
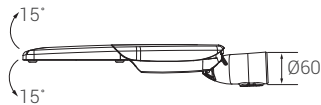
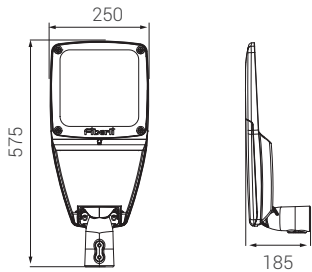


CromaStreet - Street Lighting



Road Lighting Luminaire

AYDAN9



- Electrostatic powder coating or anodized aluminum housing
- 4mm tempered glass
- Silicone seal with high protection level
- Aluminum injection molding covers
- Stainless fitting and clips
- Electrostatic painted aluminum injection assembly foot (adjustable for vertical-horizontal-angled mounting)
- 10kV lighting projection circuit
- NEMA Socket Infrastructure
- Light distribution options suitable for all road conditions
- Power and angle options for all pole types

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
AYDAN9	WW-NW-CW	220-240V AC	30	3.600	4,4
AYDAN9	WW-NW-CW	220-240V AC	60	7.200	4,4
AYDAN9	WW-NW-CW	220-240V AC	83	9.960	4,4
AYDAN9-PRO	WW-NW-CW	220-240V AC	60	8.700	4,4
AYDAN9-PRO	WW-NW-CW	220-240V AC	85	12.325	4,4

*Power and Lumen values provided are based off of a "cold white (CW) LED".

C Light Color Options

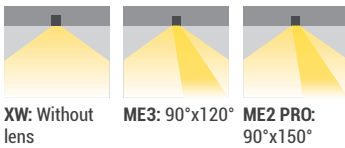
WW: Warm White	3000K
NW: Natural White	4000K
CW: Cold White	6500K

*Different colors are optional

S Driver Options

- 01 Standard Driver
- 06 DALI Driver
- 27 Programmable LED Driver

O Lens Options

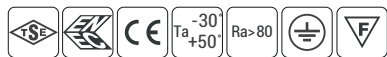


G Housing Color Options



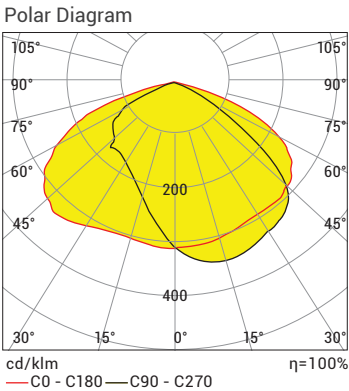
Order Code

P . W . C . S . O . G



Please contact our sales representatives for special application requests other than the standard product.

Product Diagrams



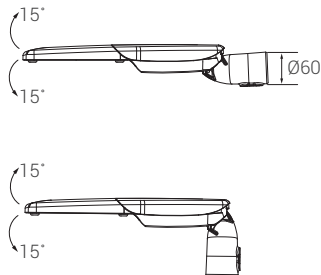
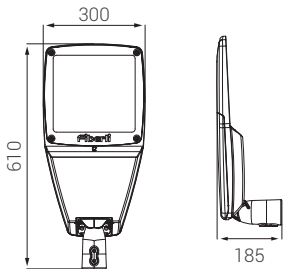
Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW				•	•	
R,G,B,A						
RGB						
RGBA/W						
RGB DMX						
WHITE DMX						



Salaris Mall, Russia





- Electrostatic powder coating or anodized aluminum housing
- 4mm tempered, polyurethane seal glass
- Silicone seal with high protection level
- Aluminum injection molding covers
- Stainless fitting and clips
- Electrostatic painted aluminum injection assembly foot (adjustable for vertical-horizontal-angled mounting)
- 10kV lighting projection circuit
- NEMA Socket Infrastructure
- Light distribution options suitable for all road conditions
- Power and angle options for all pole types

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
AYDAN16	WW-NW-CW	220-240V AC	100	12.000	6,8
AYDAN16	WW-NW-CW	220-240V AC	120	14.400	6,8
AYDAN16	WW-NW-CW	220-240V AC	150	18.000	7,3
AYDAN16-PRO	WW-NW-CW	220-240V AC	100	14.500	6,8
AYDAN16-PRO	WW-NW-CW	220-240V AC	120	17.400	6,8
AYDAN16-PRO	WW-NW-CW	220-240V AC	150	21.750	7,3

*Power and Lumen values provided are based off of a "cold white (CW) LED".

C Light Color Options

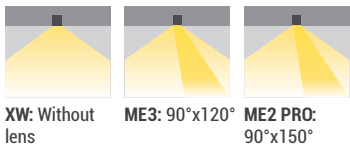
WW: Warm White	3000K
NW: Natural White	4000K
CW: Cold White	6500K

*Different colors are optional

S Driver Options

- 01 Standard Driver
- 06 DALI Driver
- 27 Programmable LED Driver

O Lens Options

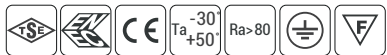


G Housing Color Options



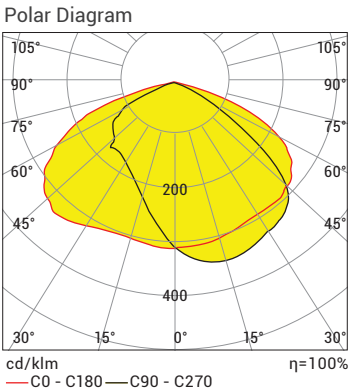
Order Code

P . W . C . S . O . G



Please contact our sales representatives for special application requests other than the standard product.

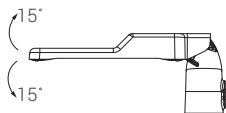
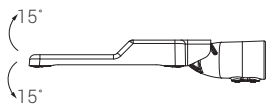
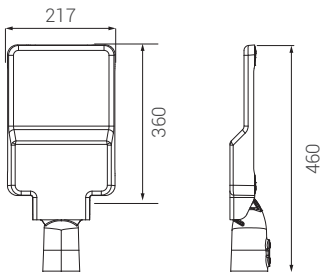
Product Diagrams



Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW				•	•	
R,G,B,A						
RGB						
RGBA/W						
RGB DMX						
WHITE DMX						





- Electrostatic powder coated, die-cast aluminum body and spigot
- 4mm tempered glass
- Ø60mm spigot adaptor can be fitted post-top or lateral entry +15°/-15° tilt angle
- Standard surge protection 10kV
- ENEC certificated, 50.000h life time constant current driver

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
AYFER4	WW-NW-CW	220-240V AC	30	3.930	2,6
AYFER4	WW-NW-CW	220-240V AC	40	5.125	2,7
AYFER4	WW-NW-CW	220-240V AC	50	6.000	2,9

*Power and Lumen values provided are based off of a "cold white (CW) LED".

C Light Color Options

WW: Warm White	3000K
NW: Natural White	4000K
CW: Cold White	6500K

*Different colors are optional

S Driver Options

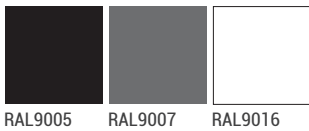
- 01 Standard Driver
- 06 DALI Driver

O Lens Options



XW: Without lens M3: 90x120°

G Housing Color Options

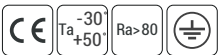


RAL9005 RAL9007 RAL9016

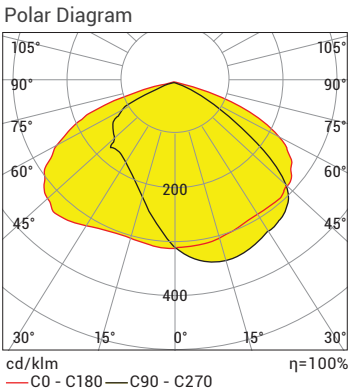


Order Code

P . W . C . S . O . G



Product Diagrams



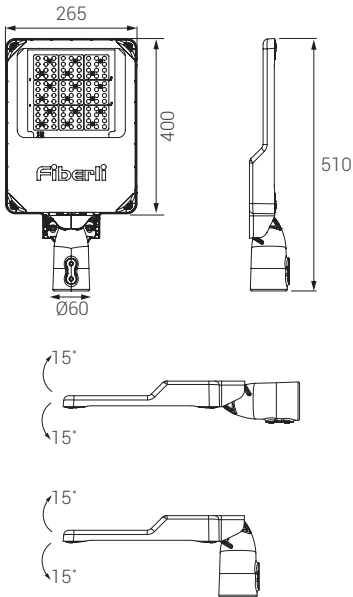
Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW				•		
R,G,B,A						
RGB						
RGBA/W						
RGB DMX						
WHITE DMX						



Road Lighting Luminaire

AYFER9



- Electrostatic powder coated, die-cast aluminum body and spigot
- 4mm tempered glass
- Ø60mm spigot adaptor can be fitted post-top or lateral entry +15°/-15° tilt angle
- Standard surge protection 10kV
- ENEC certificated, 50.000h life time constant current driver

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
AYFER9	WW-NW-CW	220-240V AC	60	7.740	3,5
AYFER9	WW-NW-CW	220-240V AC	70	8.900	3,6
AYFER9	WW-NW-CW	220-240V AC	80	10.000	3,6
AYFER9	WW-NW-CW	220-240V AC	90	11.100	3,7

*Power and Lumen values provided are based off of a "cold white (CW) LED".

C Light Color Options

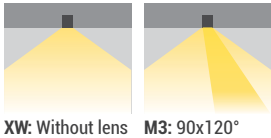
WW: Warm White	3000K
NW: Natural White	4000K
CW: Cold White	6500K

*Different colors are optional

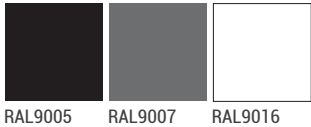
S Driver Options

- 01 Standard Driver
- 06 DALI Driver

O Lens Options



G Housing Color Options



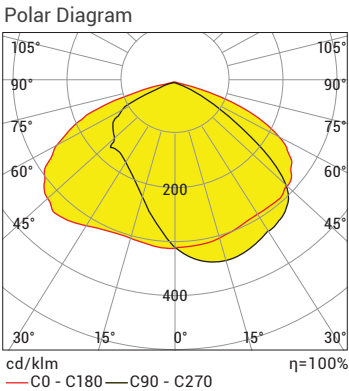
Order Code

P . W . C . S . O . G



Please contact our sales representatives for special application requests other than the standard product.

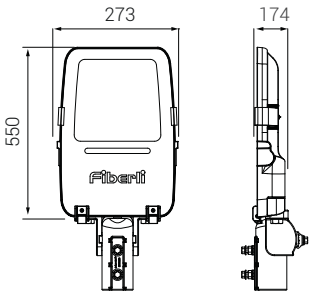
Product Diagrams



Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW				•		
R,G,B,A						
RGB						
RGBA/W						
RGB DMX						
WHITE DMX						





- Electrostatic powder coated aluminum injection body and spigot
- Tempered glass
- Aluminum injection side covers
- Stainless connectors
- Electrostatic powder coated connection pipe
- 10 kV surge protection

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
SWH9	WW-NW-CW	220-240V AC	30	3.725	5,90
SWH9	WW-NW-CW	220-240V AC	60	8.420	5,90
SWH9	WW-NW-CW	220-240V AC	80	10.829	5,90

*Power and Lumen values provided are based off of a "cold white (CW) LED".

C Light Color Options

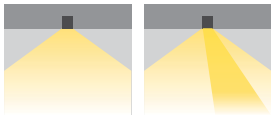
WW: Warm White	3000K
NW: Natural White	4000K
CW: Cold White	6500K

*Different colors are optional

S Driver Options

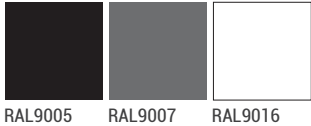
- 01 Standard Driver
- 06 DALI Driver

O Lens Options



XW: Without lens M3: 90°x120°

G Housing Color Options

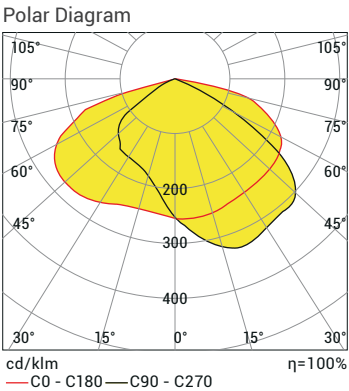


Order Code

P . W . C . S . O . G



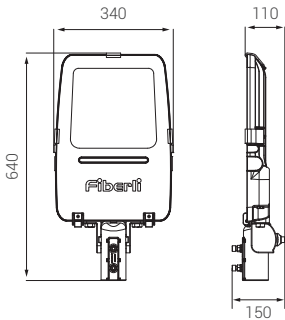
Product Diagrams



Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW				•	•	
R,G,B,A						
RGB						
RGBA/W						
RGB DMX						
WHITE DMX						





- Electrostatic powder coated aluminum injection body and spigot
- 4mm tempered glass
- Aluminum injection side covers
- Stainless connectors
- Electrostatic powder coated connection pipe
- 10 kV surge protection

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
SWH16	WW-NW-CW	220-240V AC	100	13.500	7,6
SWH16	WW-NW-CW	220-240V AC	120	15.600	7,6
SWH16	WW-NW-CW	220-240V AC	150	19.200	7,6
SWH16	WW-NW-CW	220-240V AC	200	25.000	7,6

*Power and Lumen values provided are based off of a "cold white (CW) LED".

C Light Color Options

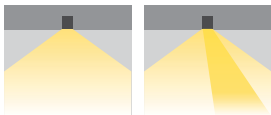
WW: Warm White	3000K
NW: Natural White	4000K
CW: Cold White	6500K

*Different colors are optional

S Driver Options

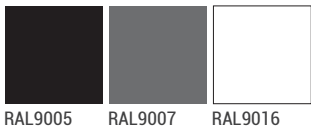
- 01 Standard Driver
- 06 DALI Driver

O Lens Options



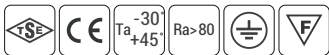
XW: Without lens M3: 90°x120°

G Housing Color Options

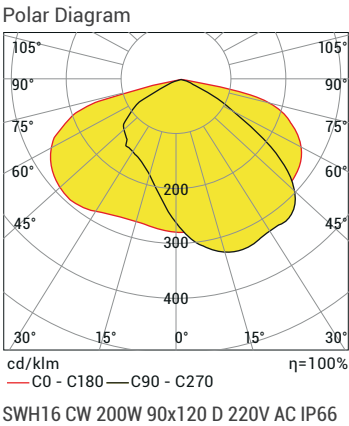


Order Code

P . W . C . S . O . G

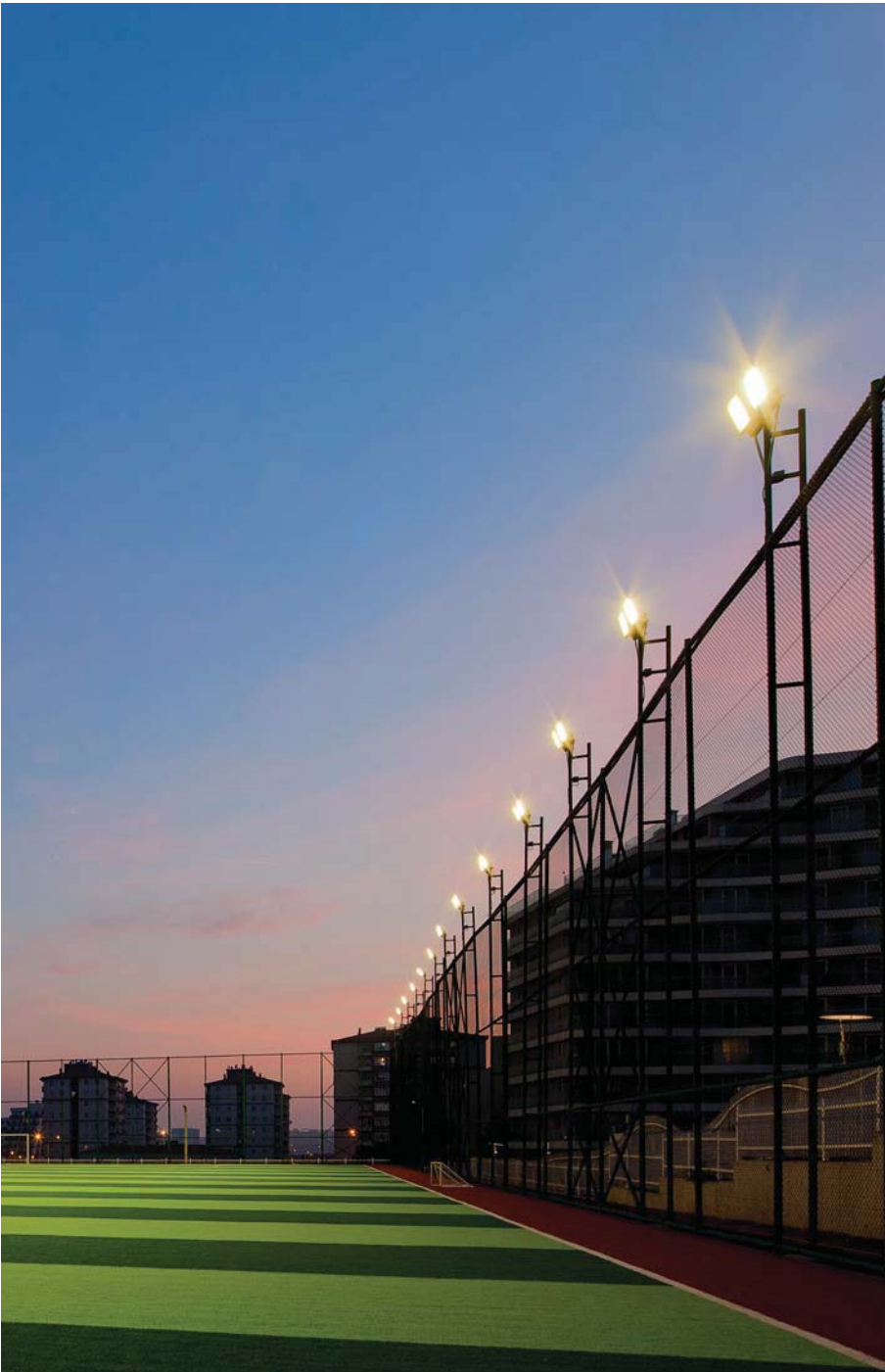


Product Diagrams

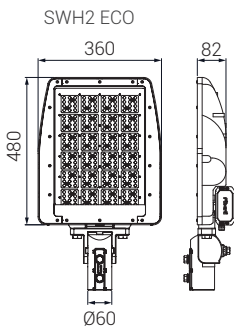
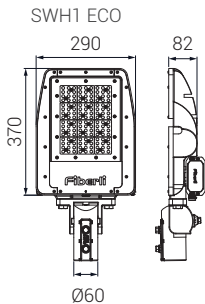


Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW				•	•	
R,G,B,A						
RGB						
RGBA/W						
RGB DMX						
WHITE DMX						



Pendik Sport Complex, İstanbul



- Electrostatic powder coated aluminum injection body and spigot
- 4mm tempered glass
- Aluminum injection side covers
- Stainless connectors
- Electrostatic powder coated connection pipe
- 10 kV surge protection

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
SWH196	WW-NW-CW	220-240V AC	85	10.500	8,7
SWH196	WW-NW-CW	220-240V AC	100	12.200	8,7
SWH1144	WW-NW-CW	220-240V AC	110	14.200	8,7
SWH1144	WW-NW-CW	220-240V AC	150	18.500	8,7
SWH2192	WW-NW-CW	220-240V AC	200	25.000	11,1

*Power and Lumen values provided are based off of a "cold white (CW) LED".

C Light Color Options

WW: Warm White	3000K
NW: Natural White	4000K
CW: Cold White	6500K

*Different colors are optional

S Driver Options

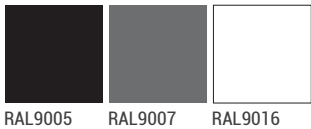
- 01 Standard Driver
- 06 DALI Driver

O Lens Options



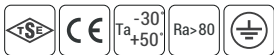
XW: Without lens M3: 90x120°

G Housing Color Options

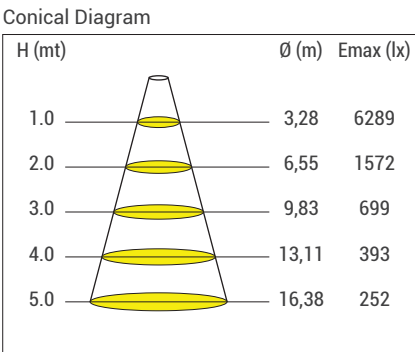
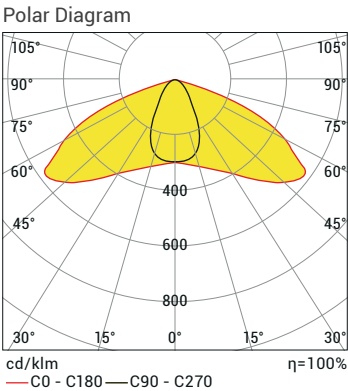


Order Code

P . W . C . S . O . G



Product Diagrams

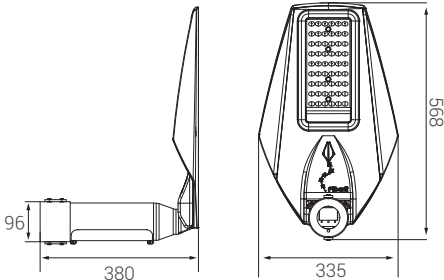


SWH1144 ECO CW 120D 150W 220V AC IP66

Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW	•			•	•	
R,G,B,A						
RGB						
RGBA/W						
RGB DMX						
WHITE DMX						





- 2,5 mm wall thickness electrostatic powder coated aluminum injection profile
- Stainless fittings
- Wide angle asymmetric lens
- Originally wide design of the product allows the fixture to cool effectively without any cooling fins

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight** (kg)
KITE	WW-NW-CW	220-240V AC	40	4.910	3,9
KITE	WW-NW-CW	220-240V AC	60	7.654	4,0
KITE	WW-NW-CW	220-240V AC	80	9.934	4,0
KITE	WW-NW-CW	220-240V AC	100	12.100	4,0
KITE-DOB	WW-NW-CW	220-240V AC DOB	50	5.300	3,0

*Power and Lumen values provided are based off of a "cold white (CW) LED".
**Product weights are provided without the weight of the pole

C Light Color Options

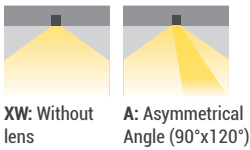
WW: Warm White	3000K
NW: Natural White	4000K
CW: Cold White	6500K

*Different colors are optional

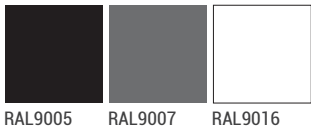
S Driver Options

01	Standard Driver
06	DALI Driver

O Lens Options



G Housing Color Options

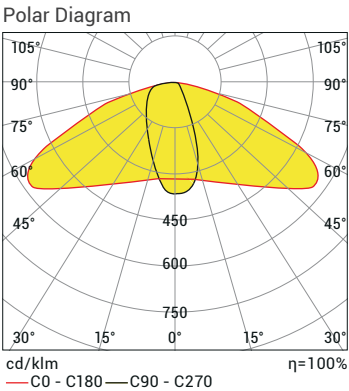


Order Code

P . W . C . S . O . G



Product Diagrams



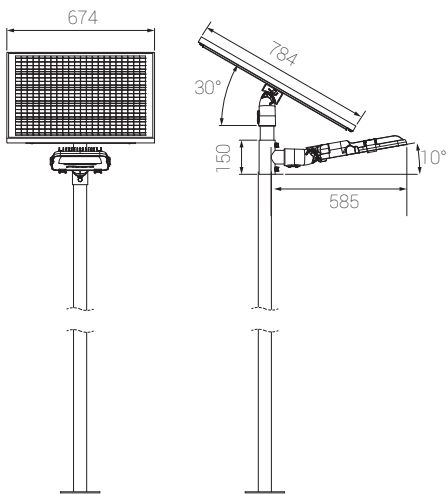
Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW				•	•	
R,G,B,A						
RGB						
RGBA/W						
RGB DMX						
WHITE DMX						



Road Lighting Luminaire

SWH9 Solar



- Electrostatic coated aluminum injection body
- 4mm, tempered, polyurethane gasket armature glass
- Aluminum injection maintenance covers
- Stainless steel fittings and clips
- Electrostatic coated aluminum injection assembly stand (adjustable for vertical-horizontal-angle mounting)
- Durable and highly efficient Li-ion battery

PW

Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
SWH9 Solar	WW-NW-CW	220-240V AC	30	3.450	5,90

*Power and Lumen values provided are based off of a cold white (CW) LED.

Solar Panel

- Product name
- : Solar Panel
- Explanation
- : 20V / 80Wp 4A Polycrystal
- Charging Time
- : 4 hours
- Autonomous Time
- : 8 hours Full Capacity / 2 days Sensor Mode
- Battery Capacity
- : 14450 mAh
- Battery Voltage
- : 14.2 V/ 4S
- Sensor Distance
- : 4m
- Panel Dimensions
- : 674x784x37mm

C

Light Color Options

WW: Warm White	3000K	R: Red	625nm
NW: Natural White	4000K	G: Green	525nm
CW: Cold White	6500K	B: Blue	465nm
		A: Amber	590nm

*Different colors are optional

O

Lens Options

W: Wide Angle	XW: Without Lens	NE: Narrow Angle Elliptical	ME: Medium Angle Elliptical	M3: Asymmetric Elliptical Angle

J

Connection Options



J01 Cable



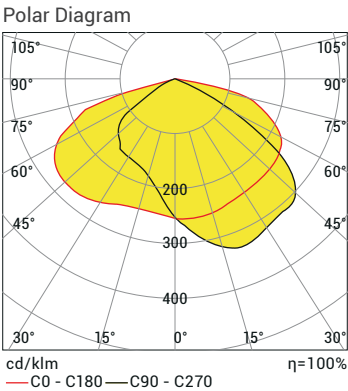
Order code

P.C.O.J



Please contact our sales representatives for special application requests other than the standard product.

Product Diagrams



Control System Options

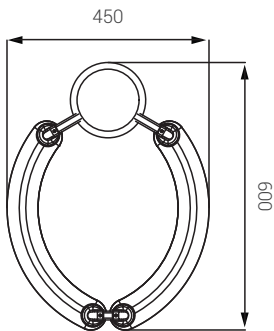
Color Type	PWM	INV PWM	DMX	DALI *	0-10V DC *	TRIAC
WW-NW-CW				•	•	
R,G,B,A				•	•	
RGB						
RGBA/W						
RGB DMX						
WHITE DMX						

*Specific products only.



Park & Garden Lighting Luminaire

ARC SINGLE



- 2,5 mm wall thickness electrostatic powder coated aluminum injection body
- Polycarbonate injection PC diffuse cover
- Stainless fittings
- Standard surge protection 10kV

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight** (kg)
ARC SINGLE	WW-NW-CW	220-240V AC	40	3.300	3,2

*Power and Lumen values provided are based off of a "cold white (CW) LED".
**Product weights are provided without the weight of the pole

C Light Color Options

WW: Warm White	3000K
NW: Natural White	4000K
CW: Cold White	6500K

*Different colors are optional

S Driver Options

- 01 Standard Driver
- 06 DALI Driver

G Housing Color Options

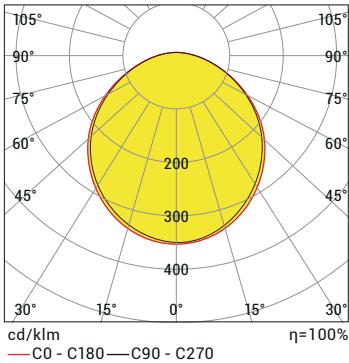
RAL9005	RAL9007	RAL9016
---------	---------	---------

Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW				•	•	
R,G,B,A						
RGB						
RGBA/W						
RGB DMX						
WHITE DMX						

Product Diagrams

Polar Diagram



Conical Diagram

H (mt)	Ø (m)	Emax (lx)
0.5	1.31	4810
1.0	2.62	1203
1.5	3.92	534
2.0	5.23	301
2.5	6.54	192
3.0	7.85	134

ARC SINGLE NW40 40W 220VAC IP65

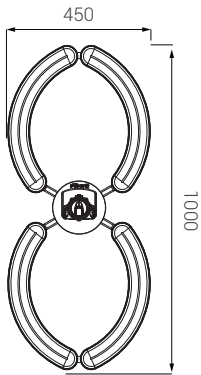


Order Code

P . W . C . S . G



Please contact our sales representatives for special application requests other than the standard product.



- 2,5 mm wall thickness electrostatic powder coated aluminum injection body
- Polycarbonate injection PC diffuse cover
- Stainless fittings
- Standard surge protection 10kV

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight** (kg)
ARC DOUBLE	WW-NW-CW	220-240V AC	80	6.600	5,8

*Power and Lumen values provided are based off of a "cold white (CW) LED".
**Product weights are provided without the weight of the pole

C Light Color Options

WW: Warm White	3000K
NW: Natural White	4000K
CW: Cold White	6500K

*Different colors are optional

S Driver Options

- 01 Standard Driver
- 06 DALI Driver

G Housing Color Options

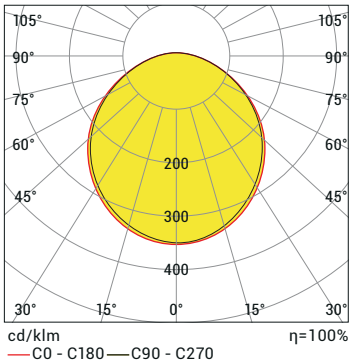
RAL9005	RAL9007	RAL9016

Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW				•	•	
R,G,B,A						
RGB						
RGBA/W						
RGB DMX						
WHITE DMX						

Product Diagrams

Polar Diagram



Conical Diagram

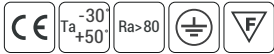
H (mt)	Ø (m)	Emax (lx)
0.5	1.36	9446
1.0	2.72	2362
1.5	4.08	1050
2.0	5.45	590
2.5	6.81	378
3.0	8.17	262

ARC DOUBLE NW40 80W 220V AC IP65



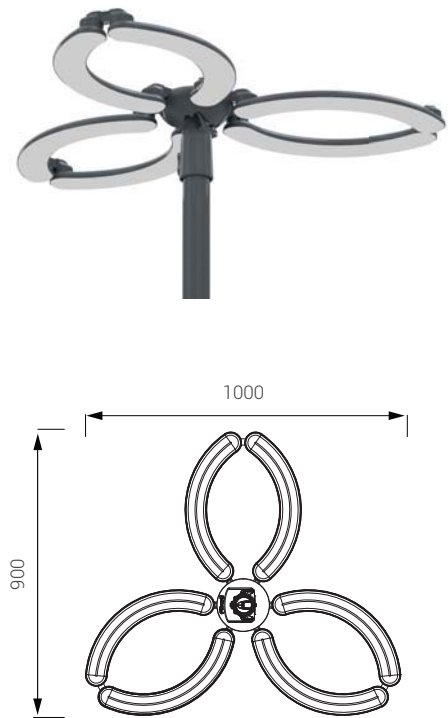
Order Code

P . W . C . S . G



Park & Garden Lighting Luminaire

ARC TRIPLE



- 2,5 mm wall thickness electrostatic powder coated aluminum injection body
- Polycarbonate injection PC diffuse cover
- Stainless fittings
- Standard surge protection 10kV

PW

Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight** (kg)
ARC TRIPLE	WW-NW-CW	220-240V AC	120	10.000	7,0

*Power and Lumen values provided are based off of a "cold white (CW) LED".
**Product weights are provided without the weight of the pole

C

Light Color Options

	WW: Warm White	3000K
	NW: Natural White	4000K
	CW: Cold White	6500K

*Different colors are optional

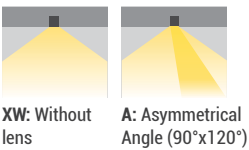
S

Driver Options

01	Standard Driver
06	DALI Driver

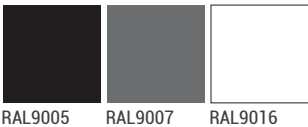
O

Lens Options



G

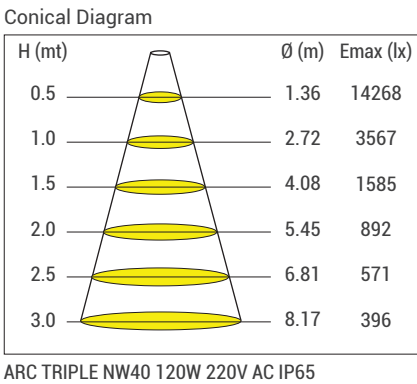
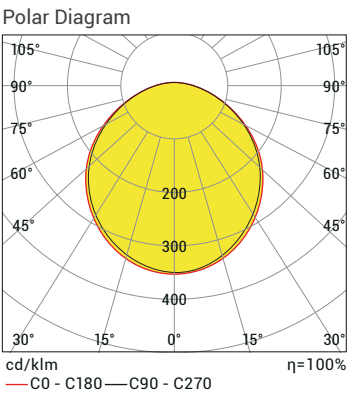
Housing Color Options



Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW				•	•	
R,G,B,A						
RGB						
RGBA/W						
RGB DMX						
WHITE DMX						

Product Diagrams



Order Code

P

W

C

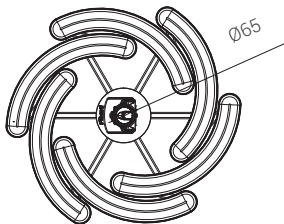
S

O

G



Please contact our sales representatives for special application requests other than the standard product.



- 2,5 mm wall thickness electrostatic powder coated aluminum injection body
- Polycarbonate injection PC diffuse cover
- Stainless fittings
- Standard surge protection 10kV

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight** (kg)
ARC SPIRAL	WW-NW-CW	220-240V AC	120	10.000	8,5

*Power and Lumen values provided are based off of a "cold white (CW) LED".
**Product weights are provided without the weight of the pole

C Light Color Options

WW: Warm White	3000K
NW: Natural White	4000K
CW: Cold White	6500K

*Different colors are optional

S Driver Options

- 01 Standard Driver
- 06 DALI Driver

G Housing Color Options

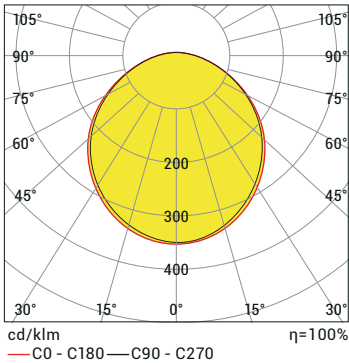
RAL9005	RAL9007	RAL9016

Control System Options

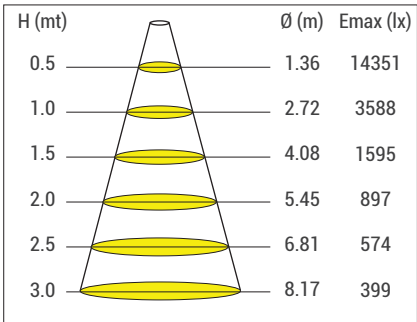
Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW				•	•	
R,G,B,A						
RGB						
RGBA/W						
RGB DMX						
WHITE DMX						

Product Diagrams

Polar Diagram



Conical Diagram



ARC SPIRAL NW40 120W 220V AC IP65



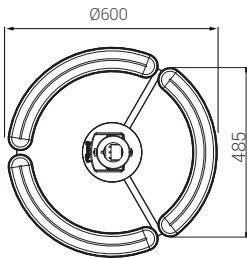
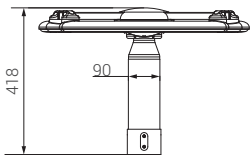
Order Code

P . W . C . S . G



Park & Garden Lighting Luminaire

ARC CIRCO



- 2,5 mm wall thickness electrostatic powder coated aluminum injection body
- Polycarbonate injection PC diffuser cover
- Stainless fittings
- Standard surge protection 10kV

PW

Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight** (kg)
ARC CIRCO	WW-NW-CW	220-240V AC	60	5.000	4,8
ARC CIRCO-DOB	WW-NW-CW	220-240V AC DOB	60	4.850	4,6

*Power and Lumen values provided are based off of a "cold white (CW) LED".
**Product weights are provided without the weight of the pole

C

Light Color Options

WW: Warm White	3000K
NW: Natural White	4000K
CW: Cold White	6500K

*Different colors are optional

S

Driver Options

- 01 Standard Driver
- 06 DALI Driver

G

Housing Color Options

RAL9005	RAL9007	RAL9016



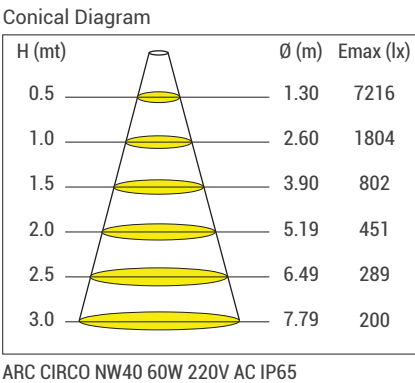
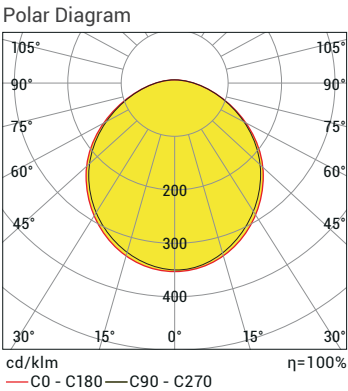
Order Code

P . W . C . S . G



Please contact our sales representatives for special application requests other than the standard product.

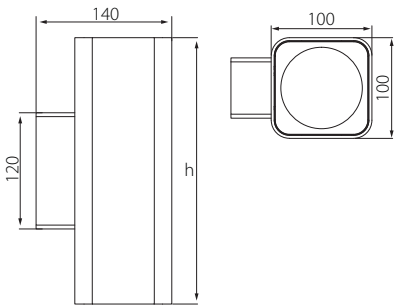
Product Diagrams



Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW				•	•	
R,G,B,A						
RGB						
RGBA/W						
RGB DMX						
WHITE DMX						





- Electrostatic powder coated aluminum body
- Electrostatic powder coated aluminum injection cooler
- Tempered glass
- Stainless connectors

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Height (h) (mm)	Weight (kg)
SSA100-SINGLE	WW-NW-CW	220-240V AC	8	980	200	1,2
SSA100-DOUBLE	WW-NW-CW	220-240V AC	18	2.160	200	1,5
SSA100-DOUBLE	WW-NW-CW	220-240V AC	18	2.160	275	1,7

*Power and Lumen values provided are based off of a "cold white (CW) LED".

C Light Color Options

WW: Warm White	3000K
NW: Natural White	4000K
CW: Cold White	6500K
A: Amber	590nm

*Different colors are optional

S Driver Options

- 01 Standard Driver
- 06 DALI Driver

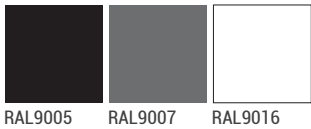
O Lens Options



XN: Extra Narrow Angle
M: Medium Angle
W: Wide Angle

Lower and upper direction light angles can be selected separately.

G Housing Color Options

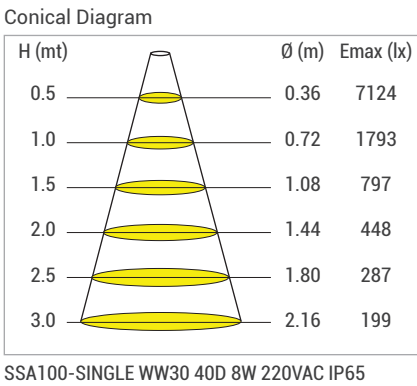
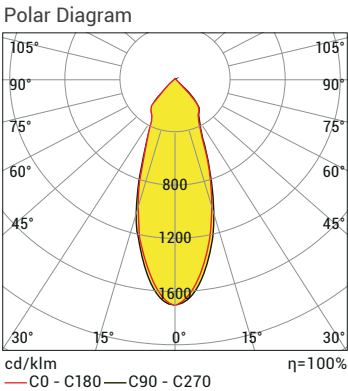


Order Code

P . W . C . S . O . G



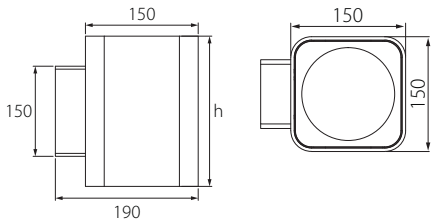
Product Diagrams



Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW				•	•	
R,G,B,A				•	•	
RGB						
RGBA/W						
RGB DMX						
WHITE DMX						





- Electrostatic powder coated aluminum body
- Electrostatic powder coated aluminum injection cooler
- Tempered glass
- Stainless connectors

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Height (h) (mm)	Weight (kg)
SSA150-SINGLE	WW-NW-CW	220-240V AC	13	1.590	200	2,6
SSA150-DOUBLE	WW-NW-CW	220-240V AC	26	3.120	275	2,9
SSA150-DOUBLE	WW-NW-CW	220-240V AC	26	3.120	275	2,9

*Power and Lumen values provided are based off of a "cold white (CW) LED".

C Light Color Options

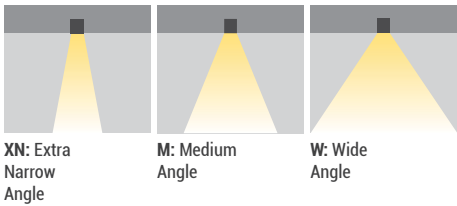
WW: Warm White	3000K
NW: Natural White	4000K
CW: Cold White	6500K
A: Amber	590nm

*Different colors are optional

S Driver Options

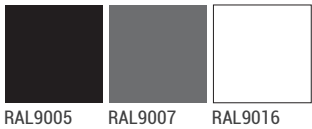
- 01 Standard Driver
- 06 DALI Driver

O Lens Options



Lower and upper direction light angles can be selected separately.

G Housing Color Options



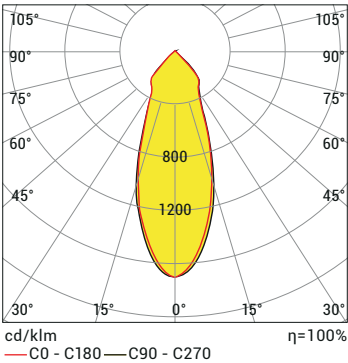
Order Code

P . W . C . S . O . G

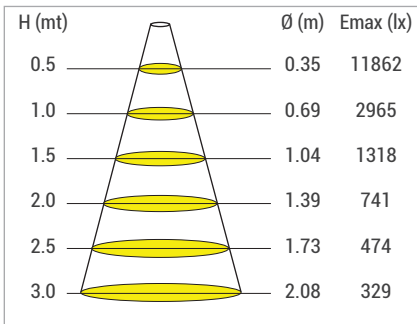


Product Diagrams

Polar Diagram



Conical Diagram

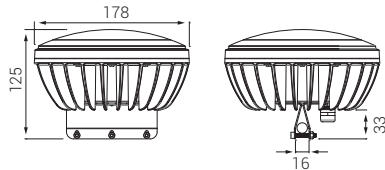


SSA150-SINGLE WW30 40D 13W 220VAC IP65

Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW				•	•	
R,G,B,A				•	•	
RGB						
RGBA/W						
RGB DMX						
WHITE DMX						





- Electrostatic powder coated steel body
- Aluminum cooler
- Polycarbonate front cover
- Stainless connectors

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
SCG5	WW-NW-CW	220-240V AC	25	2.375	1,9
SCG5	RGB	24V DC	25	-	1,75

*Power and Lumen values provided are based off of a lensless product with cold white (CW) LED.

C Light Color Options

WW: Warm White	3000K	R: Red	625nm
NW: Natural White	4000K	G: Green	525nm
CW: Cold White	6500K	B: Blue	465nm
RGB		A: Amber	590nm

*Different colors are optional

S Driver Options

- 01 Standard Driver
- 06 DALI Driver

O Lens Options



W: Wide Angle XW: Without lens



Order Code

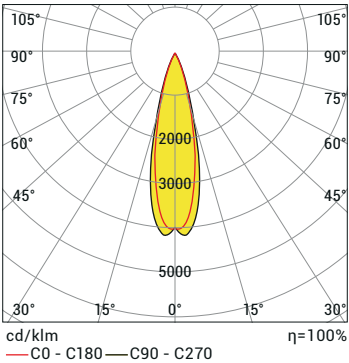
P . W . C . S . O



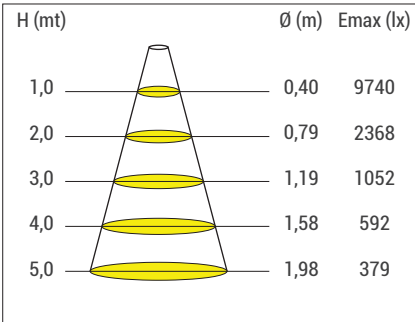
Please contact our sales representatives for special application requests other than the standard product.

Product Diagrams

Polar Diagram



Conical Diagram



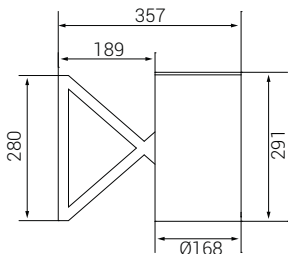
SCG5 18 CW 25D 25W 220V AC IP65

Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW						
R,G,B,A						
RGB						
RGBA/W						
RGB DMX						
WHITE DMX						

*Avaiable with only 24V





- Electrostatic powder coated aluminum body
- Electrostatic powder coated aluminum injection cooler
- Polycarbonate front cover
- Stainless connectors

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
SRB9	WW-NW-CW	220-240V AC	10	1.150	3,3
SRB9	WW-NW-CW	220-240V AC	22	2.110	3,3
SRB12	WW-NW-CW	220-240V AC	28	2.685	3,4

*Power and Lumen values provided are based off of a lensless product with cold white (CW) LED.

C Light Color Options

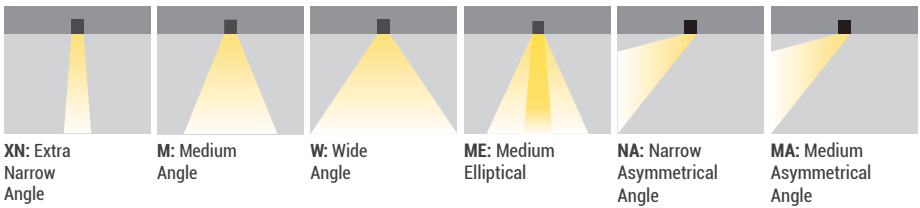
WW: Warm White	3000K	R: Red	625nm
NW: Natural White	4000K	G: Green	525nm
CW: Cold White	6500K	B: Blue	465nm
RGB		A: Amber	590nm

*Different colors are optional

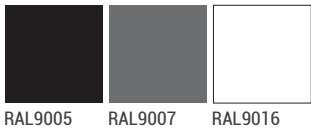
S Driver Options

- 01 Standard Driver
- 06 DALI Driver

O Lens Options

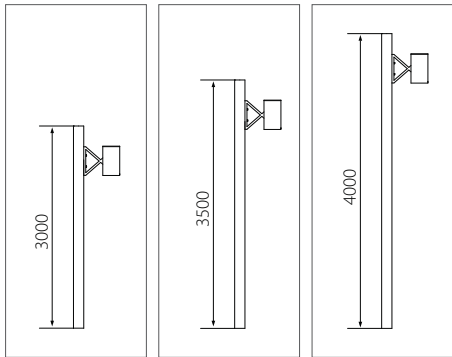


G Housing Color Options



M Mounting Options

Pole length options



31: 3,0 meter

32: 3,5 meter

33: 4,0 meter



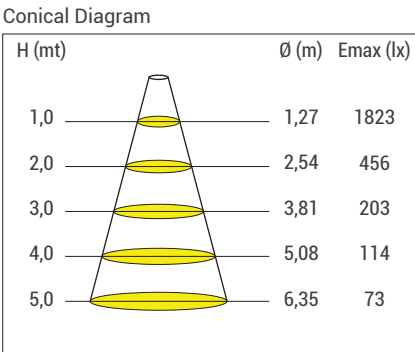
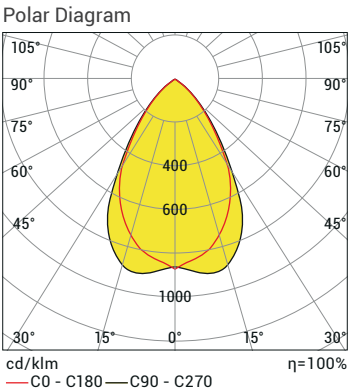
Order Code

P . W . C . S . O . G . M



Please contact our sales representatives for special application requests other than the standard product.

Product Diagrams

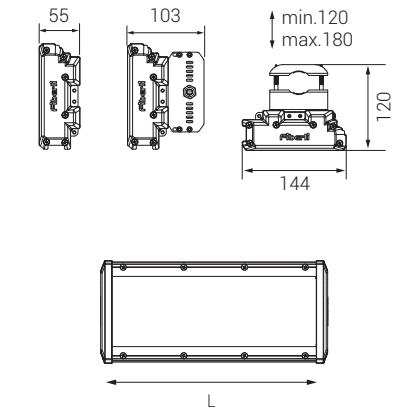


SRB 9 CW 60D 22W 220V AC IP65

Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW	•			•	•	
R,G,B,A	•			•	•	
RGB	•					
RGBA/W						
RGB DMX						
WHITE DMX						





- Min. 20 micron anodized aluminum extruded profile
- Stainless stand
- Polycarbonate glass
- Electrostatic powder coated aluminum injection side cover
- High efficiency group lens

PW

Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Length (L) (mm)	Weight (kg)
SWS36	WW-NW-CW	220-240V AC	36	4.000	320	2,9
SWS54	WW-NW-CW	220-240V AC	54	6.000	480	4,3
SWS72	WW-NW-CW	220-240V AC	72	8.000	610	5,3
SWS36	WW-NW-CW	220-240V AC DOB	36	4.000	320	2,3
SWS54	WW-NW-CW	220-240V AC DOB	54	6.000	480	3,5
SWS72	WW-NW-CW	220-240V AC DOB	72	8.000	610	4,2
SWS36	WW-NW-CW	24V DC	36	3.900	320	2,3
SWS54	WW-NW-CW	24V DC	54	5.900	480	3,5
SWS72	WW-NW-CW	24V DC	72	7.900	610	4,2

*Power and Lumen values provided are based off of a cold white (CW) LED.

C

Light Color Options

WW: Warm White	3000K	R: Red	625nm
NW: Natural White	4000K	G: Green	525nm
CW: Cold White	6500K	B: Blue	465nm
		A: Amber	590nm

*Different colors are optional

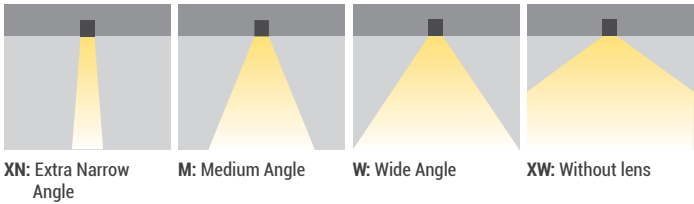
S

Driver Options

- 01 Standard Driver
- 06 DALI Driver

O

Lens Options



M

Mounting Options



22: Pole

23: Steel rope

23: Steel rope*
*Steel rope for 220V AC DOB and 24V DC



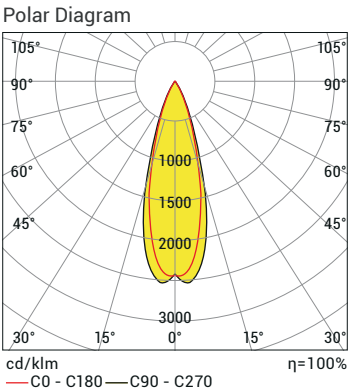
Order Code

P . W . C . S . O . M

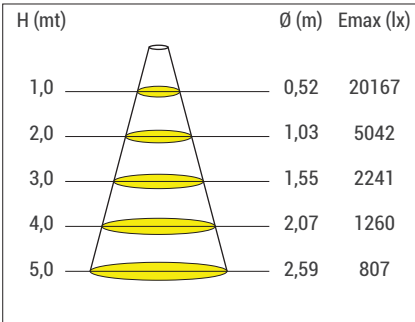


Please contact our sales representatives for special application requests other than the standard product.

Product Diagrams



Conical Diagram



SWS72 CW 25D 72W 220V AC IP66

Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW	•				•	
R,G,B,A	•				•	
RGB	•					
RGBA/W						
RGB DMX						
WHITE DMX						

*Available with only 24V





Floor Illumination

LL

DP

CD

WW

CS

CF

AC

CG

CB

HB

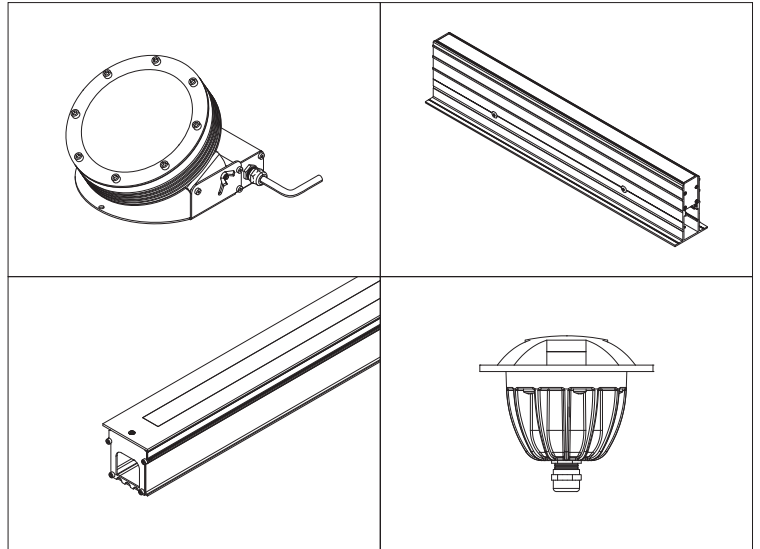
MM

RDMX

LC

FO

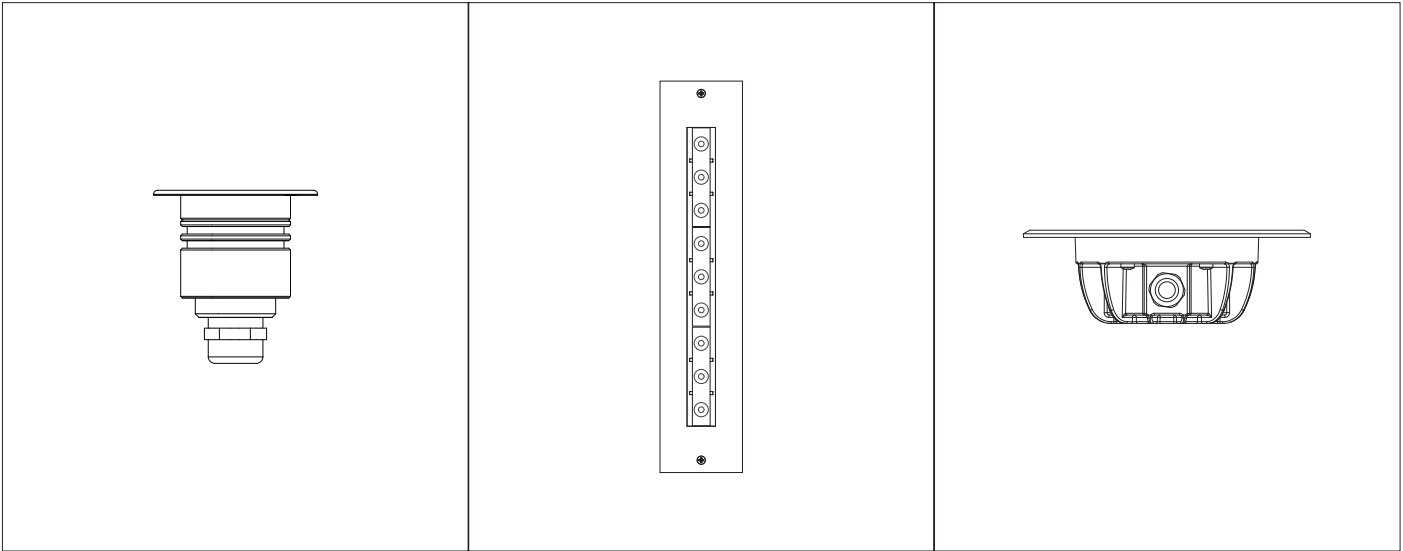
EL



• Croma Floor

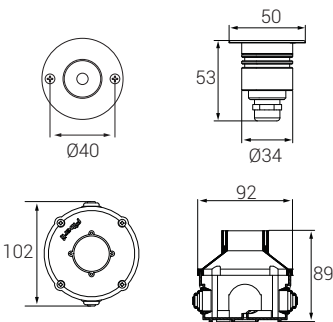
The CromaFloor provides ideal lighting solutions for both indoor and outdoor venues. These are LED luminaires which are recessed to the ground or mounted on the ground surface. They are particularly preferred for the illumination of parks, gardens and staircases. This luminaire does not harm the human skin with the low spot temperature, thus rendering the ground safe to walk around barefoot. Various light combinations can be achieved through its wide range of color options and color changing feature. Thus, the products provide architects and lighting designers the opportunity to bring their creative ideas to life.

Floor Illumination



CromaFloor - Floor Lighting





- 316 L chrome body and chrome flange
- Polycarbonate luminaire glass
- Plastic injection installation box
- Underwater cable joint
- H07RNF rubber cable

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
CF500	WW-NW-CW	220-240V AC	2	155	0,5
CF500	WW-NW-CW	12-24V DC	2	155	0,5
CF500	WW-NW-CW	12-24V DC	3	310	0,5
CF500	RGB	7,5V DC	8	-	0,5

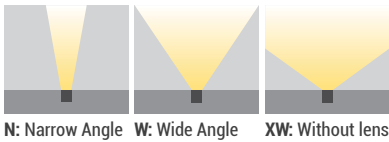
*Power and Lumen values provided are based off of a "cold white (CW) LED".

C Light Color Options

WW: Warm White	3000K	R: Red	625nm
NW: Natural White	4000K	G: Green	525nm
CW: Cold White	6500K	B: Blue	465nm
RGB		A: Amber	590nm

*Different colors are optional

O Lens Options



M Mounting Options



29: With Screw 30: Without Screw



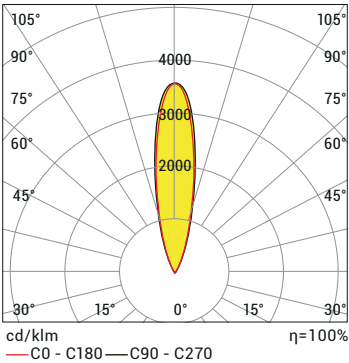
Order Code

P . W . C . O . M

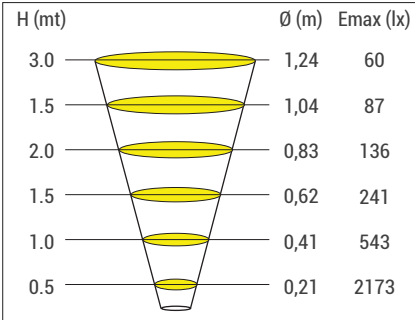


Product Diagrams

Polar Diagram

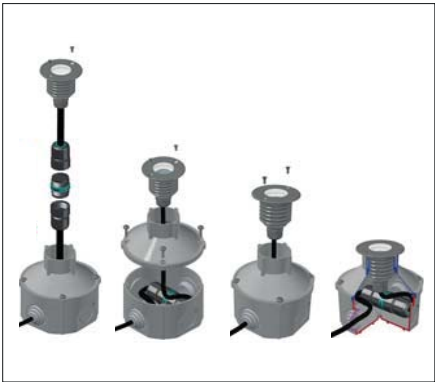


Conical Diagram



CF500 CW 25D 1.5W 220V AC IP67

Mounting



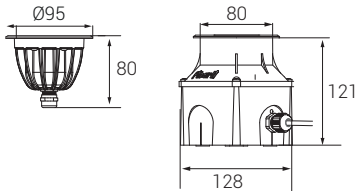
Control System Options

Color Type	PWM	INV PWM	DMX*	DALI*	0-10V DC*	TRIAC
WW-NW-CW	•			•	•	
R,G,B,A	•			•	•	
RGB	•					
RGBA/W	•					
RGB DMX			•			
WHITE DMX			•			

*Specific products only

Product Code	Voltage (V DC)	Control Systems	Cores of Cables Count		
			Mono	RGB	RGB W/A
CF500	5	PVM	2x	-	-
	7,5	PVM	-	4x	-
	12-24	ON/OFF	2x	-	-





- 316 L chrome flange
- Electrostatic powder coated aluminum injection body
- 8 mm tempered glass
- Plastic injection installation box
- Underwater cable joint
- H07RNF rubber cable

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
CF103	WW-NW-CW	220-240V AC	4	480	1,3
CF103	WW-NW-CW	12-24V DC	4	425	1,1
CF103	RGB	7,5V DC	8	-	1,1

*Power and Lumen values provided are based off of a "cold white (CW) LED".

C Light Color Options

WW: Warm White	3000K	R: Red	625nm
NW: Natural White	4000K	G: Green	525nm
CW: Cold White	6500K	B: Blue	465nm
RGB		A: Amber	590nm

*Different colors are optional

O Lens Options

***XN: Extra Narrow Angle**

M: Medium Angle

W: Wide Angle

XW: Without lens

***ME: Medium Elliptical**

***NA: Narrow Asymmetrical Angle**

***MA: Medium Asymmetrical Angle**

**Only for 220V AC*

U Upper Piece Options

23: Square Satin Nickel

21: Round Satin Nickel



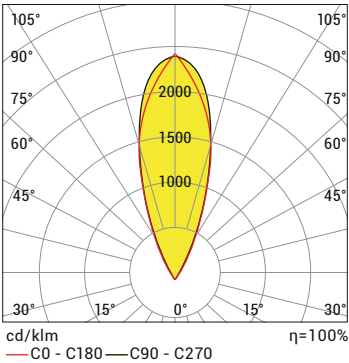
Order Code

P . W . C . O . U

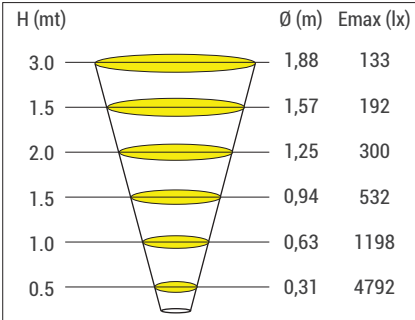


Product Diagrams

Polar Diagram



Conical Diagram



CF1 P3 CW 25D 4.5 W 220V AC IP67

Control System Options

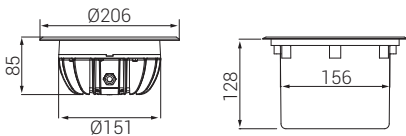
Color Type	PWM	INV PWM	DMX*	DALI*	0-10V DC*	TRIAC
WW-NW-CW	•			•	•	
R,G,B,A	•			•	•	
RGB	•					
RGBA/W						
RGB DMX			•			
WHITE DMX			•			

*Only for 24V DC

Product Code	Voltage (V DC)	Control Systems	Cores of Cables Count		
			Mono	RGB	RGB W/A
CF103	7,5	PVM	-	4x	-
	12	PVM	2x	-	-
	12-24	ON/OFF	2x	-	-



Kahverengi Cafe, Antalya



- 5 mm 316 L chrome flange
- Electrostatic powder coated aluminum injection body
- 12 mm tempered glass
- Plastic injection installation box
- Underwater cable joint
- H07RNF rubber cable
- IP68 air vent

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
CF309	WW-NW-CW	220-240V AC	8	650	2,8
CF309	WW-NW-CW	220-240V AC	10	1.000	2,8
CF309	RGB	12V DC	13	-	2,6

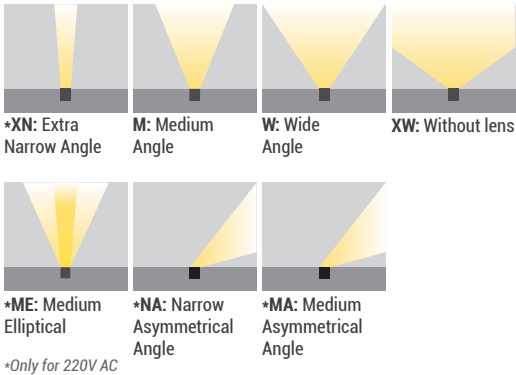
*Power and Lumen values provided are based off of a "cold white (CW) LED".

C Light Color Options

● WW: Warm White	3000K	● R: Red	625nm
● NW: Natural White	4000K	● G: Green	525nm
● CW: Cold White	6500K	● B: Blue	465nm
		● A: Amber	590nm

*Different colors are optional

O Lens Options



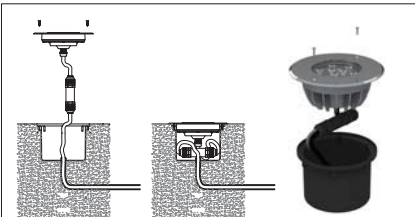
*Only for 220V AC

K Cable Direction Options



09: Single entry underneath the housing
10: Entry and exit on the cover*
*Only 24V DC

Mounting

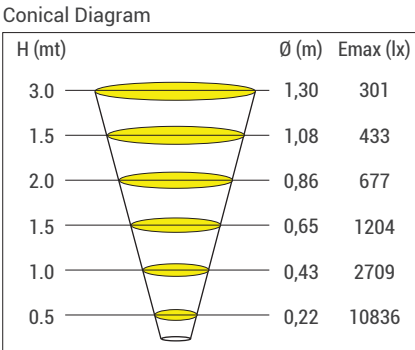
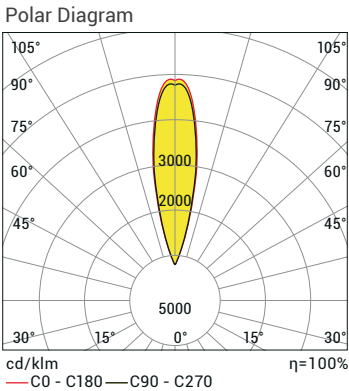


Order Code

P . W . C . O . K



Product Diagrams



CF3 P6 CW 25D 8W 220V AC IP67



Mardan Palace Hotel, Antalya

Control System Options

Color Type	PWM	INV PWM	DMX*	DALI*	0-10V DC*	TRIAC
WW-NW-CW	•			•	•	
R,G,B,A	•			•	•	
RGB	•					
RGBA/W	•					
RGB DMX			•			
WHITE DMX			•			

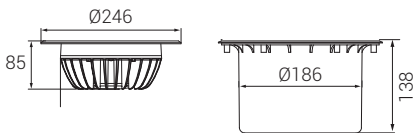
*Only for 24V DC

Product Code	Voltage (V DC)	Control Systems	Cores of Cables Count		
			Mono	RGB	RGB W/A
CF309	12	PWM	2x	4x	-
	12-24	ON/OFF	2x	-	-



Merkez Efendi Complex, İstanbul





- 5 mm 316 L chrome flange
- Electrostatic powder coated aluminum injection body
- 12 mm tempered glass
- Plastic injection installation box
- Underwater cable joint
- H07RNF rubber cable
- IP68 air vent

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
CF518	WW-NW-CW	220-240V AC	21	650	3,8
CF518	RGB	24V DC	25	650	3,5
CF518	RGBA/W	24V DC	26	-	3,5

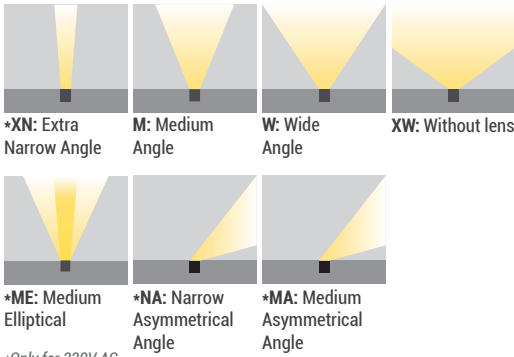
*Power and Lumen values provided are based off of a "cold white (CW) LED".

C Light Color Options

● WW: Warm White	3000K	● R: Red	625nm	● RGB
● NW: Natural White	4000K	● G: Green	525nm	● RGBW
● CW: Cold White	6500K	● B: Blue	465nm	● RGBW
		● A: Amber	590nm	● RGBA

*Different colors are optional.

O Lens Options



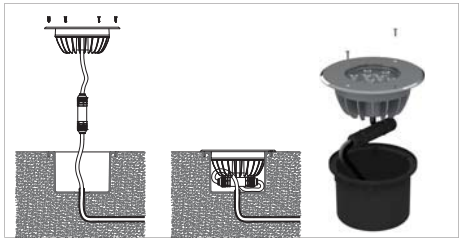
*Only for 220V AC

K Cable Direction Options



*Only 24V DC

Mounting



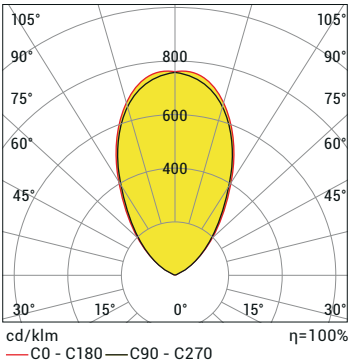
Order Code

P . W . C . O . K

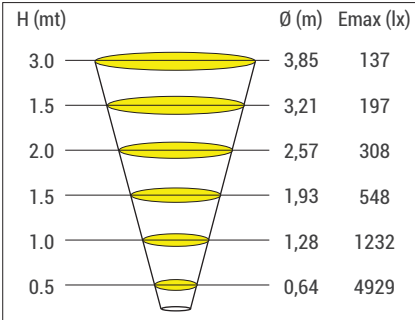


Product Diagrams

Polar Diagram



Conical Diagram



CF5 P18 CW 60D 20W 220V AC IP67

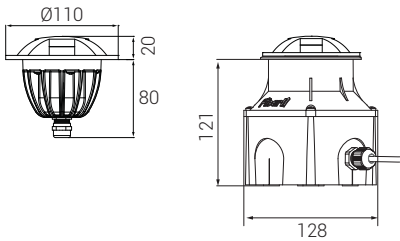
Control System Options

Color Type	PWM	INV PWM	DMX*	DALI*	0-10V DC*	TRIAC
WW-NW-CW	•			•	•	
R,G,B,A	•			•	•	
RGB	•					
RGBA/W						
RGB DMX			•			
WHITE DMX			•			

*Only for 24V DC

Product Code	Voltage (V DC)	Control Systems	Cores of Cables Count		
			Mono	RGB	RGB W/A
CF518	24	PWM	2x	4x	-
	12-24	ON/OFF	2x	-	-
	12-24	INV-PWM	3x	-	-





- Corrosion protection by double layered electrostatic powder coated body
- Aluminum injection body
- Plastic injection blind casing
- Underwater cable joint
- H07RNF rubber cable

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
CF1Y03	WW-NW-CW	220-240V AC	4	430	1,1
CF1Y03	RGB	7,5V DC	8	-	0,9

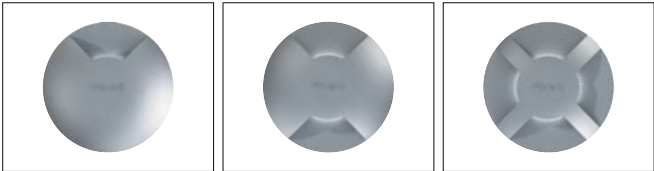
*Power and Lumen values provided are based off of a "cold white (CW) LED".

C Light Color Options

WW: Warm White	3000K	R: Red	625nm
NW: Natural White	4000K	G: Green	525nm
CW: Cold White	6500K	B: Blue	465nm
		A: Amber	590nm

*Different colors are optional.

E Additional Piece Options

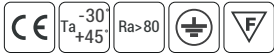


01: Single sided 02: Double sided 04: Four sided

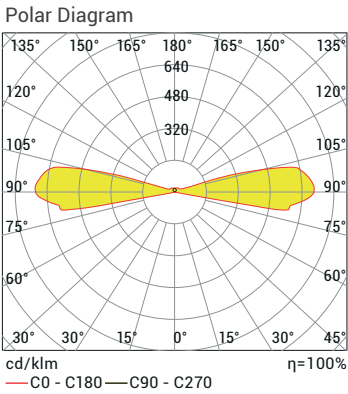


Order Code

P . W . C . E

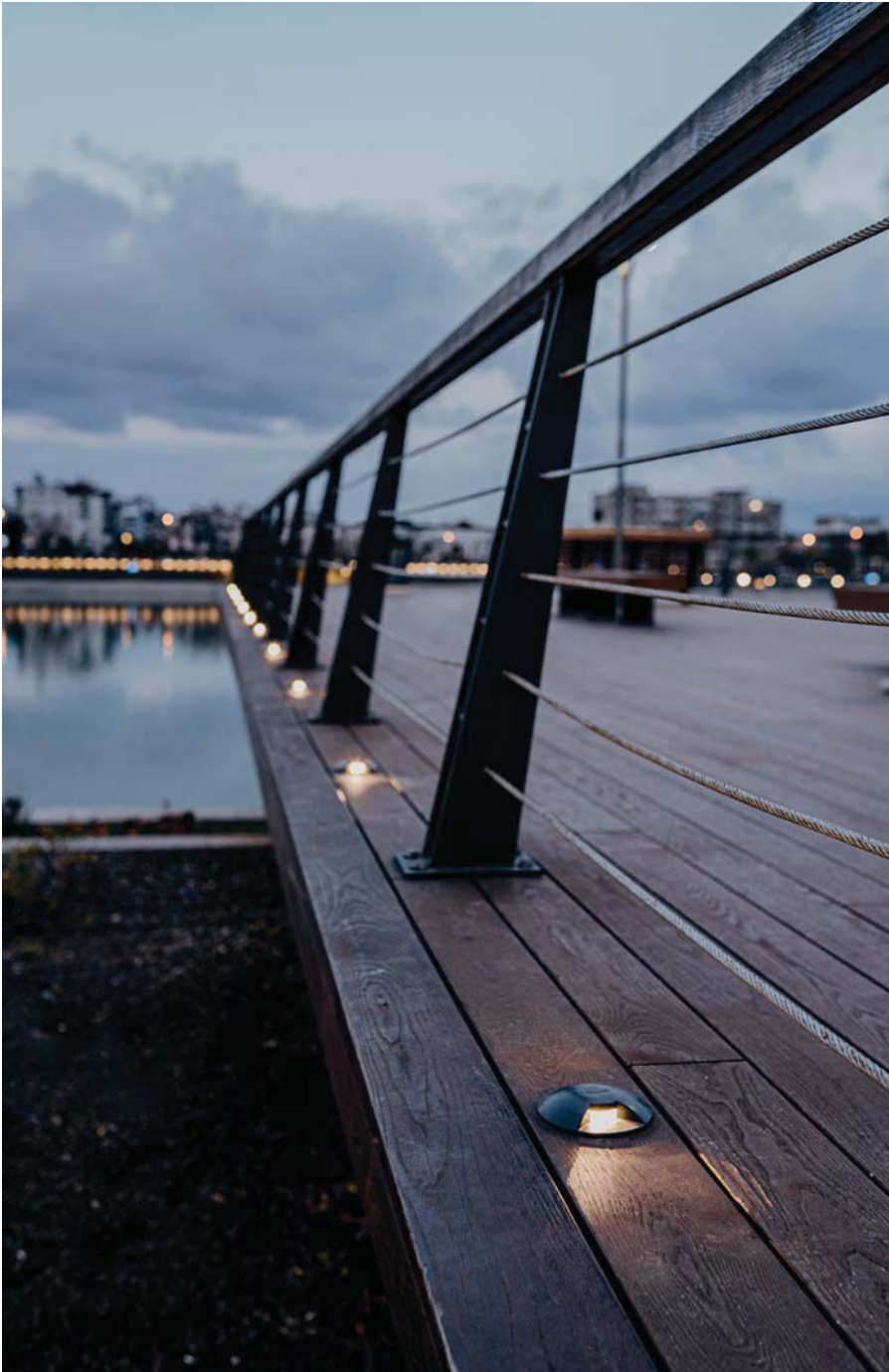


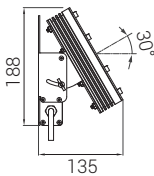
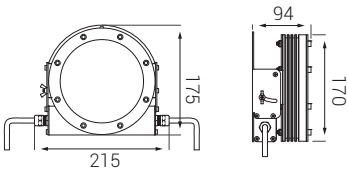
Product Diagrams



Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW	•					
R,G,B,A	•					
RGB						
RGBA/W						
RGB DMX						
WHITE DMX						





- 316 L chrome spot frame
- Solid aluminum body
- Stainless steel mounting brackets
- Polycarbonate luminaire glass
- H07RNF rubber cable

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
CF5Y18	WW-NW-CW	220-240V AC	21	2.000	2,6
CF5Y18	RGB	24V DC	25	-	2,3

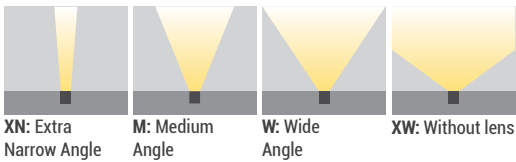
*Power and Lumen values provided are based off of a "cold white (CW) LED".

C Light Color Options

WW: Warm White	3000K	R: Red	625nm
NW: Natural White	4000K	G: Green	525nm
CW: Cold White	6500K	B: Blue	465nm
RGB		A: Amber	590nm

*Different colors are optional.

O Lens Options

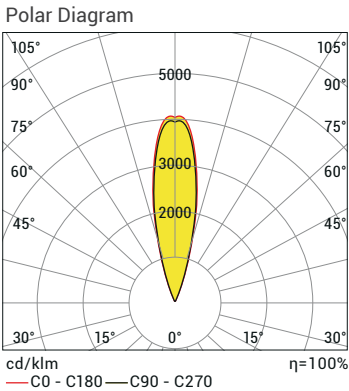


Order Code

P . W . C . O



Product Diagrams



Conical Diagram

H (mt)	Ø (m)	E _{max} (lx)
3.0	1,30	907
1.5	1,08	1307
2.0	0,86	2042
1.5	0,65	3630
1.0	0,43	8167
0.5	0,22	32669

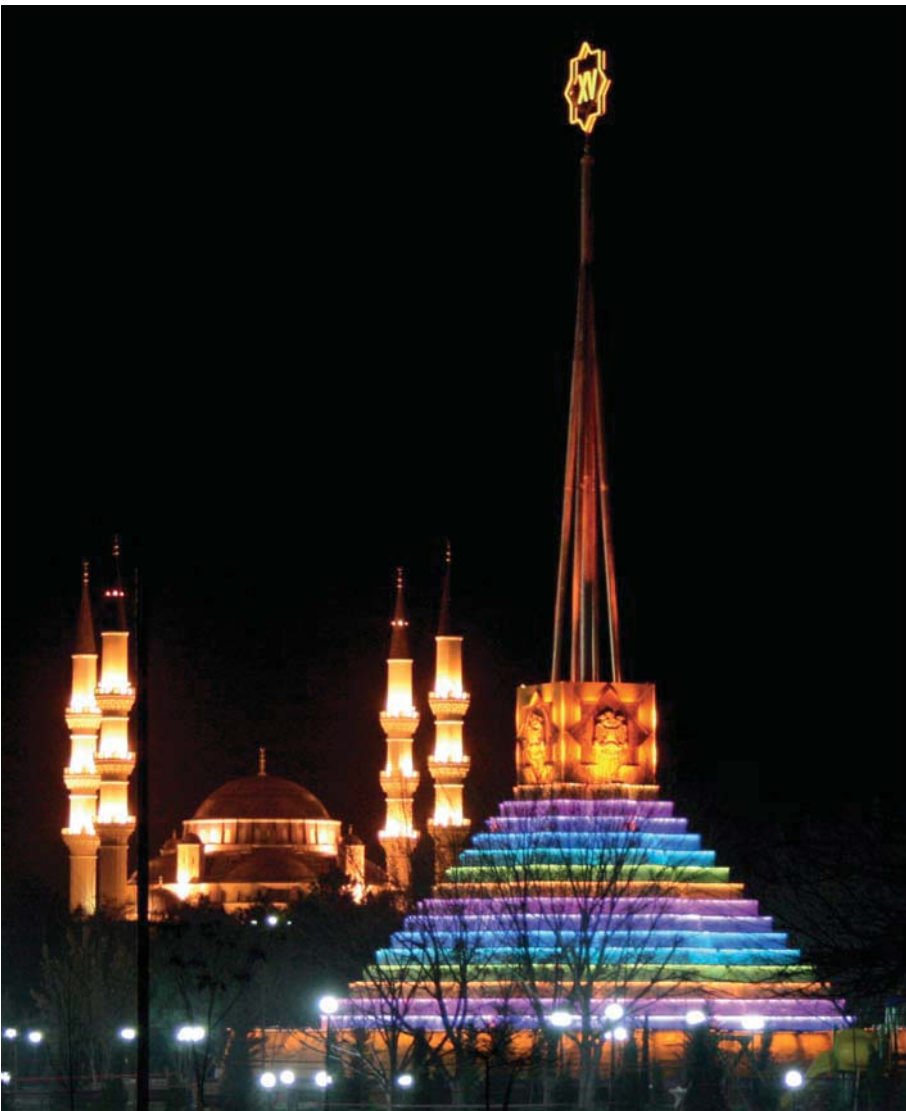
CF5Y P18 CW 25D 25W 220V AC IP67



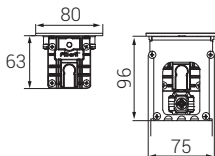
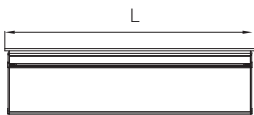
Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW	•					
R,G,B,A	•					
RGB	•					
RGBA/W						
RGB DMX						
WHITE DMX						

Product Code	Voltage (V DC)	Control Systems	Cores of Cables Count		
			Mono	RGB	RGB W/A
CF5Y18	24	PWM	2x	4x	-
	12-24	ON/OFF	2x	-	-



15th Century Monument, Turkmenistan



- Min 20 micron anodized aliminum extruded housing
- Anodized aluminum extruded mounting box
- 316 L satin chrome outer frame
- 6mm tempered luminaire glass
- UV protected PVC end caps
- Underwater cable joint
- H07RNF rubber cable
- IP68 air vent

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Length (L) (mm)	Weight (kg)
CFL033	WW-NW-CW	220-240V AC	4	500	170	1,0
CFL066	WW-NW-CW	220-240V AC	8	1000	285	1,8
CFL109	WW-NW-CW	220-240V AC	10	1.300	380	2,5
CFL218	WW-NW-CW	220-240V AC	20	2605	670	4,0
CFL327	WW-NW-CW	220-240V AC	30	3700	960	5,1
CFL436	WW-NW-CW	220-240V AC	40	5030	1250	7,3
CFL109	RGB	12V DC	12	-	380	2,2
CFL218	RGB	24V DC	25	-	670	3,7
CFL327	RGB	12V DC	40	-	960	4,8
CFL436	RGB	24V DC	50	-	1250	7,0

*Power and Lumen values provided are based off of a "cold white (CW) LED".

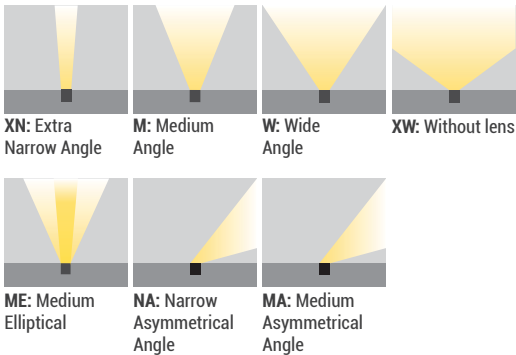
C Light Color Options

WW: Warm White	3000K	R: Red	625nm	RGB
NW: Natural White	4000K	G: Green	525nm	RGBW
CW: Cold White	6500K	B: Blue	465nm	RGBW
		A: Amber	590nm	RGBA

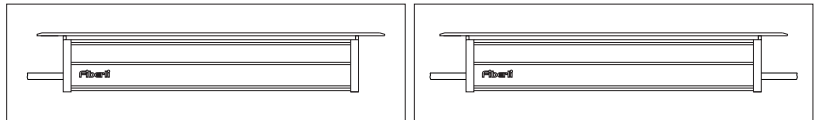
S Driver Options

- 01 Standard Driver
- 06 DALI Driver

O Lens Options



K Cable Direction Options



Order Code

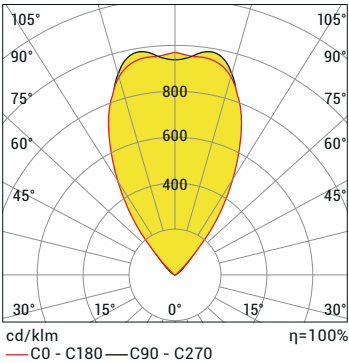
P . W . C . S . O . K



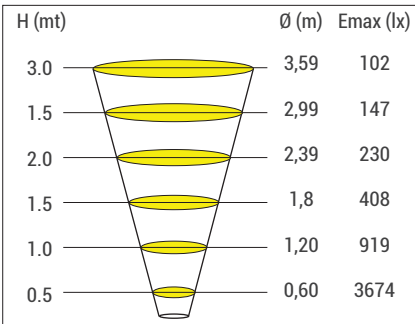
Please contact our sales representatives for special application requests other than the standard product.

Product Diagrams

Polar Diagram



Conical Diagram



CFL12 CW 60D 12W 220V AC 50HZ IP67



Control System Options

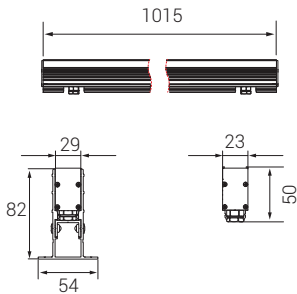
Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW	•	•	•	•	•	
R,G,B,A	•	•	•	•	•	
RGB	•					
RGBA/W		•				
RGB DMX			•			
WHITE DMX			•			

Product Code	Voltage (V DC)	Control Systems	Cores of Cables Count		
			Mono	RGB	RGB W/A
CFL033	7,5	PWM	-	4x	-
	12	PWM	2x	-	-
CFL066	7,5	PWM	-	4x	-
	12	PWM	2x	4x	-
CFL109	12-24	-	3x	5x	-
	15-24	INV-PWM	3x	5x	6x
CFL112	15-24	ON/OFF	2x	-	-
	24	PWM	2x	4x	-
CFL218	12-24	ON/OFF	2x	-	-
	12-24	INV-PWM	3x	5x	-
CFL224	15-24	INV-PWM	3x	5x	6x
	15-24	ON/OFF	2x	-	-
CFL327	12	PVM	2x	4x	-
	12-24	ON/OFF	2x	-	-
CFL336	12-24	INV-PWM	3x	5x	-
	15-24	INV-PWM	3x	5x	6x
CFL436	15-24	ON/OFF	2x	-	-
	24	PWM	2x	4x	-
CFL448	12-24	ON/OFF	2x	-	-
	12-24	INV-PWM	3x	5x	-
CFL448	15-24	INV-PWM	3x	5x	6x
	15-24	ON/OFF	2x	-	-



Sanko Park, Gaziantep





- 20 micron anodized aluminum extrusion body
- Polymer coated IP class
- Homogeneously illuminated surface with white polymer coating
- Operates with 24V DC
- IP68 female-male connector
- Product length standards are, 40cm, 80cm, 120cm, 160cm and 200cm

P W Product & Power Options

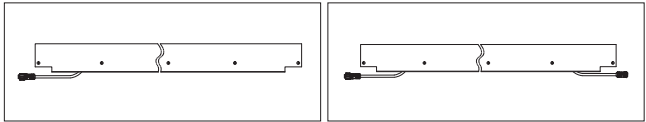
Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
CFU23-M100	WW-NW-CW	24V DC	18	450	2,6
CFU23-M100	WW-NW-CW	24V DC	4,8	120	2,6
CFU23-M100	WW-NW-CW	24V DC	14,4	360	2,6
CFU23-M100	WW-NW-CW	24V DC	7,2	180	2,6
CFU23-M100	WW-NW-CW	24V DC	14,4	360	2,6
CFU23-M100	RGB	24V DC	10,8	-	2,6
CFU23-M100	RGB	24V DC	14,4	-	2,6
CFU23-M100	RGB DMX	24V DC	8,4	5pixel/m	2,6
CFU23-M100	RGB DMX	24V DC	12,6	7pixel/m	2,6

*Power and Lumen values provided are based off of a "cold white (CW) LED".

C Light Color Options

● WW: Warm White	3000K	● R: Red	625nm	● RGB
● NW: Natural White	4000K	● G: Green	525nm	● RGBW
● CW: Cold White	6500K	● B: Blue	465nm	● RGBW
		● A: Amber	590nm	● RGBA

K Cable Direction Options



01: Single side inlet 02: Inlet and outlet on both sides

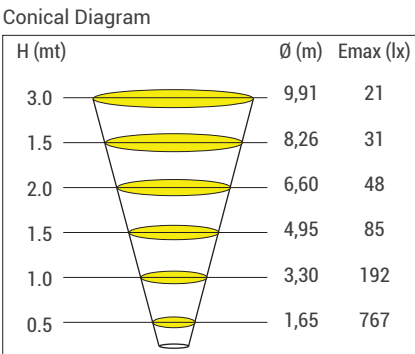
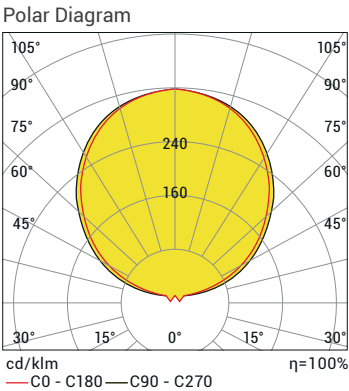


Order Code

P . W . C . K



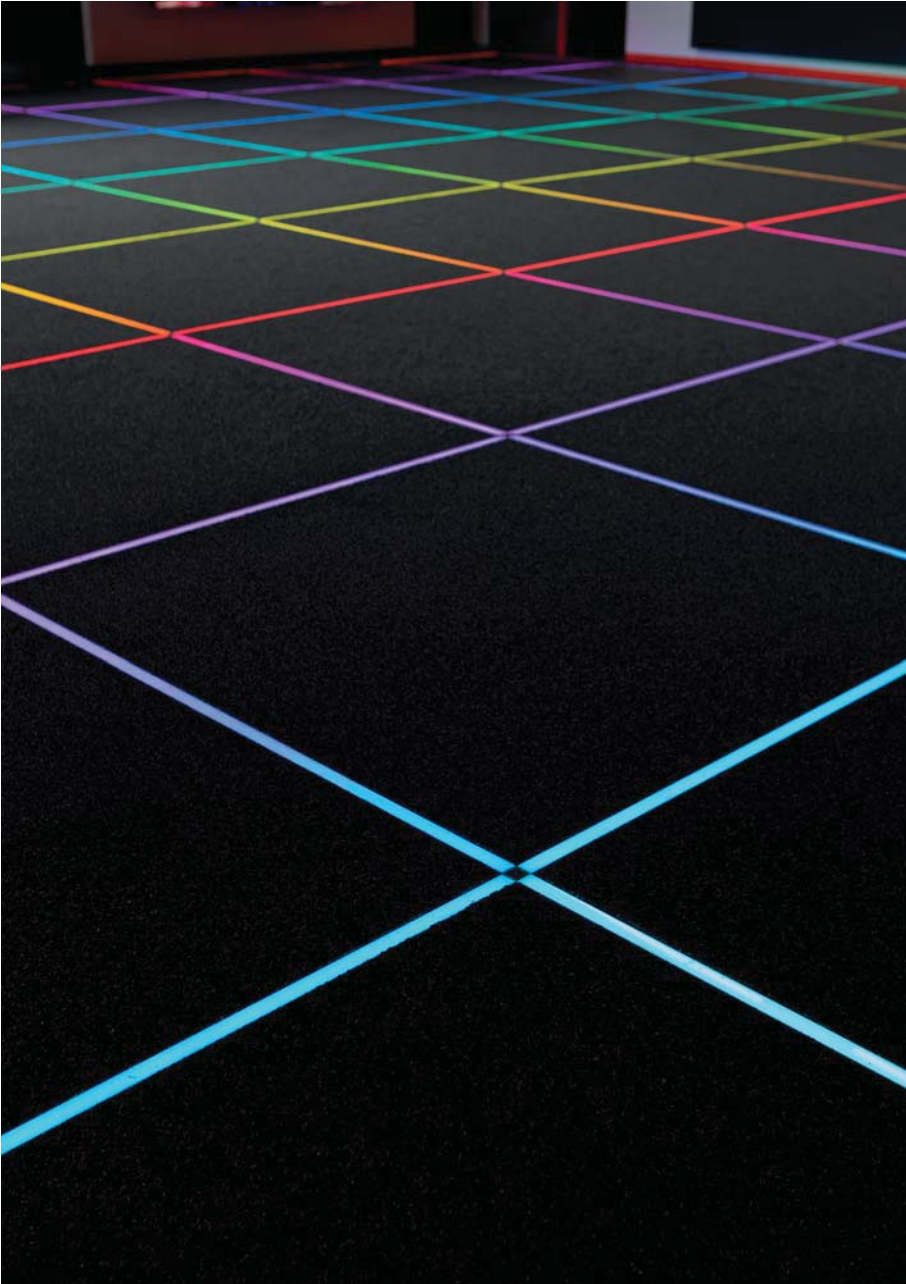
Product Diagrams



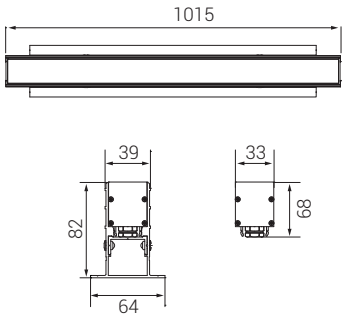
CFU 23 60LED CW 120D 24W 24V DC IP67

Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW 	•			•	•	
R,G,B,A 	•			•	•	
RGB 	•					
RGBA/W 	•					
RGB DMX 			•			
WHITE DMX 			•			



Fiberli Factory, Antalya



- At least 20 micron anodized aluminum extrusion body
- Polymer coated IP class
- Homogeneously illuminated surface with white polymer coating
- Operates with 24V DC
- IP68 female-male connector
- Product length standards are, 40cm, 80cm, 120cm, 160cm and 200cm

P W Product & Power Options

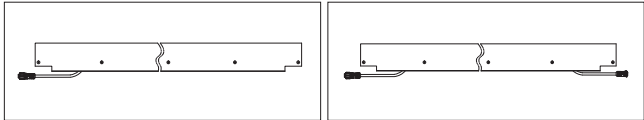
Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
CFU33-M100	WW-NW-CW	24V DC	18	540	3,7
CFU33-M100	WW-NW-CW	24V DC	4,8	150	3,7
CFU33-M100	WW-NW-CW	24V DC	14,4	450	3,7
CFU33-M100	WW-NW-CW	24V DC	7,2	220	3,7
CFU33-M100	WW-NW-CW	24V DC	14,4	450	3,7
CFU33-M100	RGB	24V DC	10,8	-	3,7
CFU33-M100	RGB	24V DC	14,4	-	3,7
CFU33-M100	RGB DMX	24V DC	8,4	5pixel/m	3,7
CFU33-M100	RGB DMX	24V DC	12,6	7pixel/m	3,7

*Power and Lumen values provided are based off of a "cold white (CW) LED".

C Light Color Options

WW: Warm White	3000K	R: Red	625nm	RGB
NW: Natural White	4000K	G: Green	525nm	RGBW
CW: Cold White	6500K	B: Blue	465nm	RGBW
		A: Amber	590nm	RGBA

K Cable Direction Options



01: Single side inlet

02: Inlet and outlet on both sides



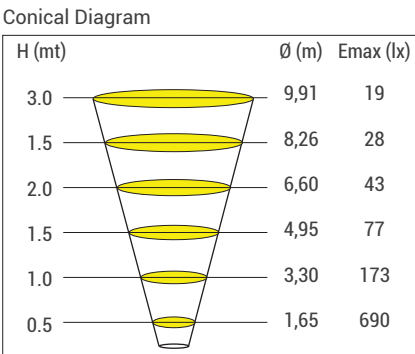
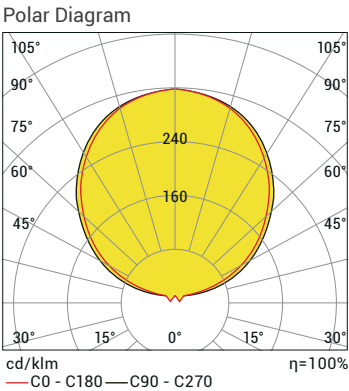
Order Code

P . W . C . K



Please contact our sales representatives for special application requests other than the standard product.

Product Diagrams



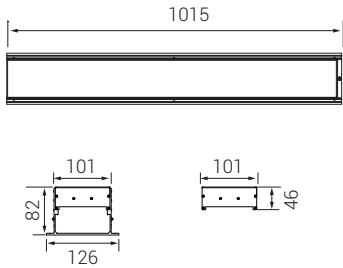
CFU 33 45LED CW 120D 18W 24V DC IP67

Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW	•			•	•	
R,G,B,A	•			•	•	
RGB	•					
RGBA/W	•					
RGB DMX			•			
WHITE DMX			•			



Uçanyol, İzmir



- At least 20 micron anodized aluminum extrusion body
- Polymer coated IP class
- Homogeneously illuminated surface with a 30mm opaque white polycarbonate
- IP68 female-male connector
- Product length standards are, 40cm, 80cm, 120cm, 160cm and 200cm

P W Product & Power Options

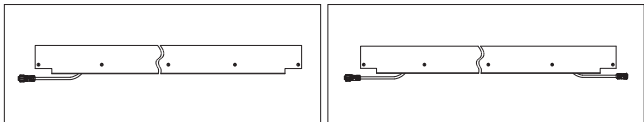
Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
CFU100-M100	WW-NW-CW	220-240V AC	14	1.100	7,5
CFU100-M100	WW-NW-CW	24V DC	14	1.100	7,5
CFU100-M100	RGB	24V DC	24	-	7,5

*Power and Lumen values provided are based off of a "cold white (CW) LED".

C Light Color Options

WW: Warm White 3000K	R: Red 625nm
NW: Natural White 4000K	G: Green 525nm
CW: Cold White 6500K	B: Blue 465nm
RGB	A: Amber 590nm

K Cable Direction Options



01: Single side inlet

02: Inlet and outlet on both sides



Order Code

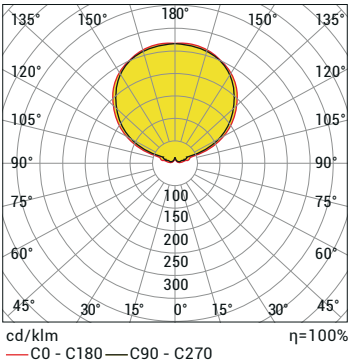
P . W . C . K



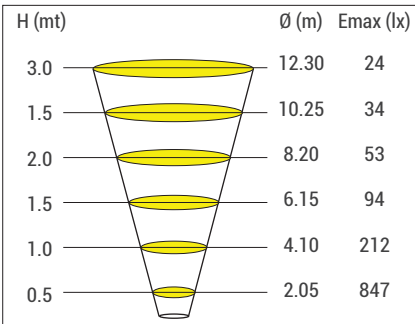
Please contact our sales representatives for special application requests other than the standard product.

Product Diagrams

Polar Diagram



Conical Diagram

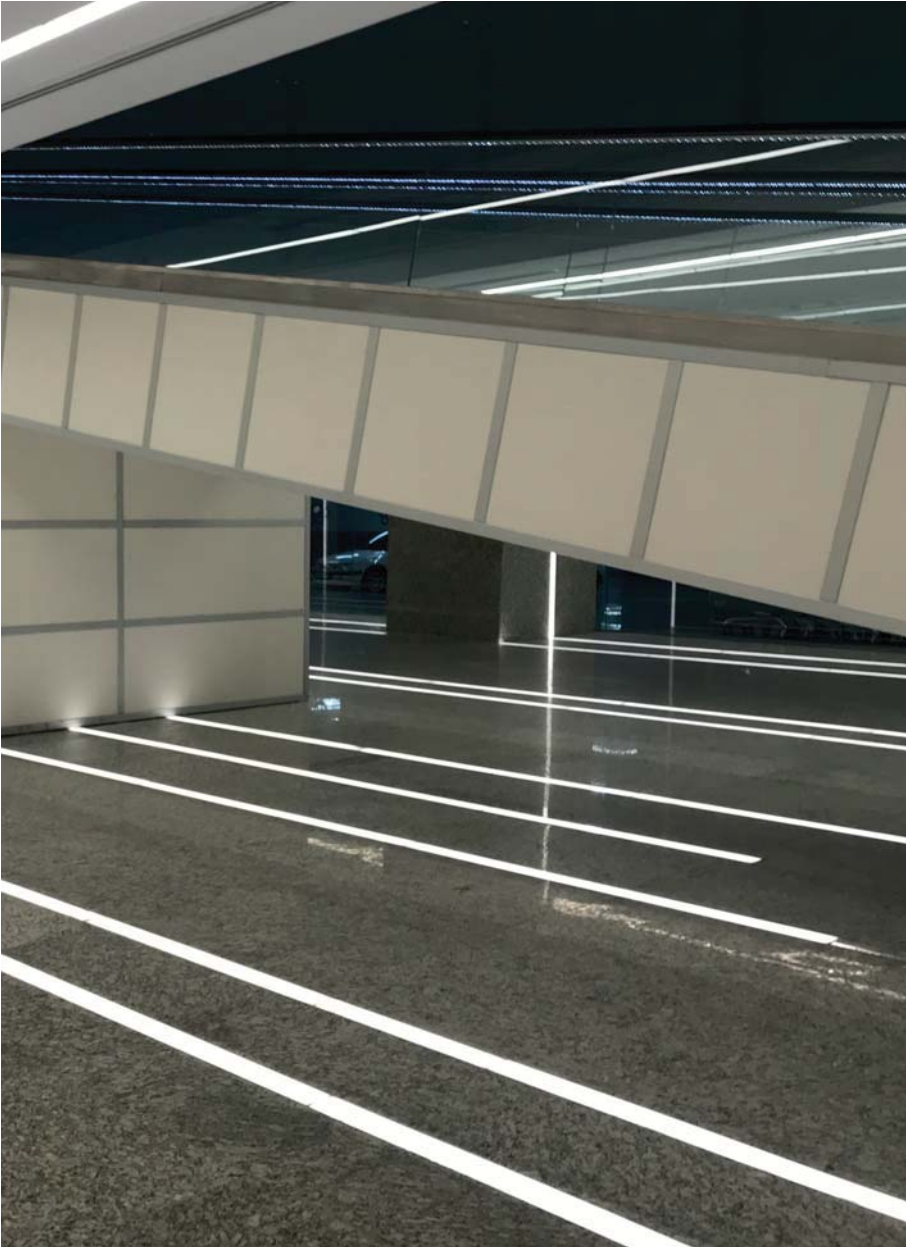


CFU100 90LED NW 21,5W 220V DC IP67

Control System Options

Color Type	PWM	INV PWM	DMX	DALI *	0-10V DC*	TRIAC
WW-NW-CW	•			•	•	
R,G,B,A	•			•	•	
RGB	•					
RGBA/W	•					
RGB DMX			•			
WHITE DMX			•			

*Only for 24V DC



Iran Mall, Iran



LL

DP

CD

WW

CS

CF

AC

CG

CB

HB

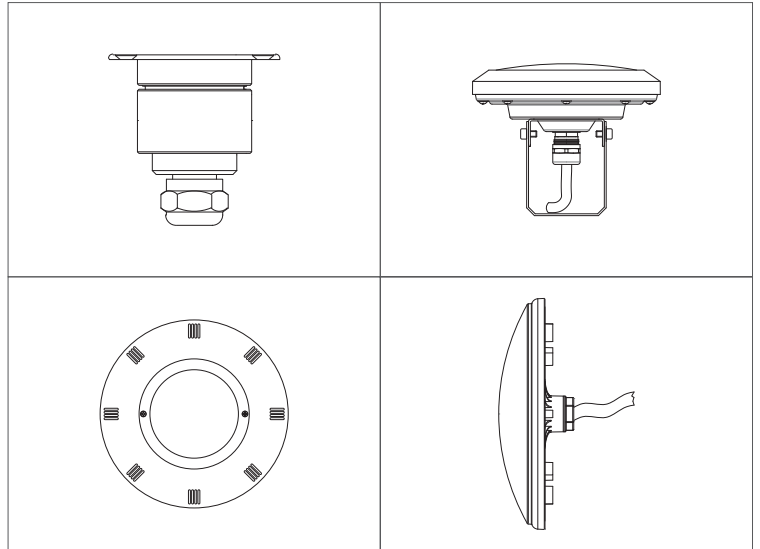
MM

RDMX

LC

FO

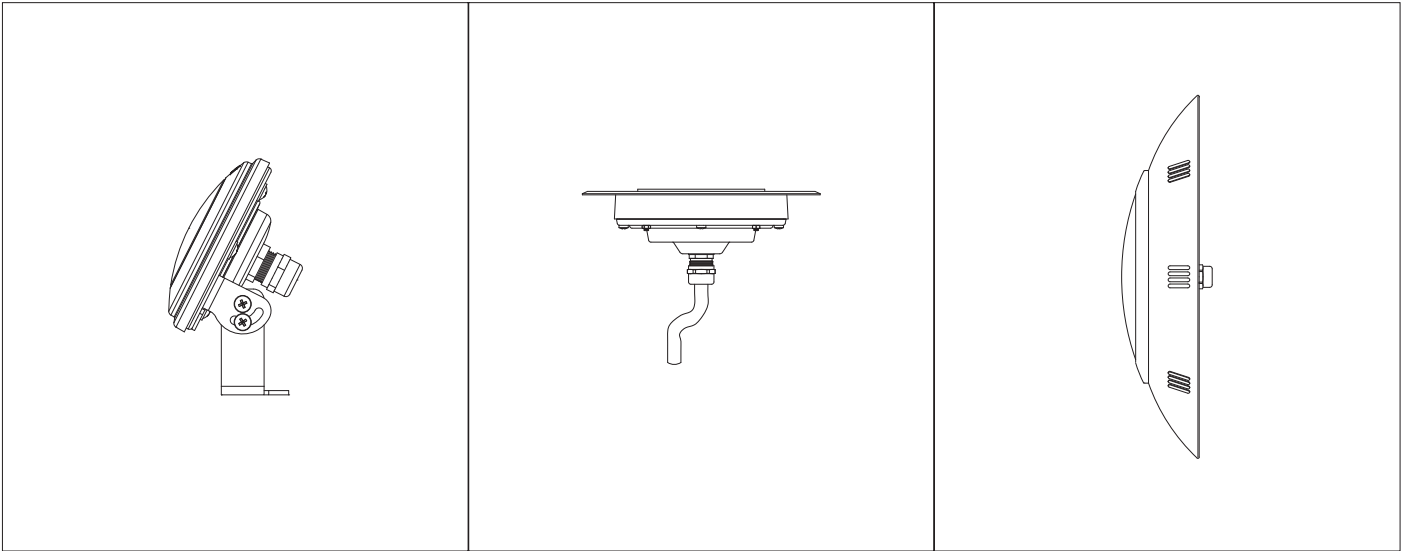
EL



Aqua Croma

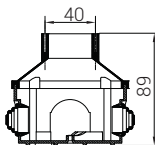
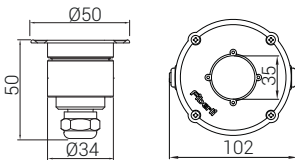
The Aqua Croma series has been designed to be utilized under water or in regions close to water. The Aqua Croma Series generates a more luminous flux with lesser energy. It provides high quality solutions and efficiency with its powerful technical structure.

Pool Lighting



AquaCroma - Pool Lighting





- 316 L chrome body and chrome spot frame
- Polycarbonate luminaire glass
- Plastic injection mounting box
- Underwater connector
- H07RNF rubber cable

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
AC500F	WW-NW-CW	12-24V DC	2	150	0,25
AC500F	WW-NW-CW	12-24V DC	3	310	0,25
AC500F	RGB	7,5V DC	8	-	0,25

***Power and Lumen values provided are based off of a lensless product with cold white (CW) LED. It may vary according to the desired color.*

C Light Color Options

WW: Warm White	3000K	R: Red	625nm
NW: Natural White	4000K	G: Green	525nm
CW: Cold White	6500K	B: Blue	465nm
RGB		A: Amber	590nm

S System Options

- 01 Standart (ON/OFF)
- 02 PWM-DIM

O Lens Options



XN: Extra Narrow Angle N: Narrow Angle W: Wide Angle

Mounting



Order Code

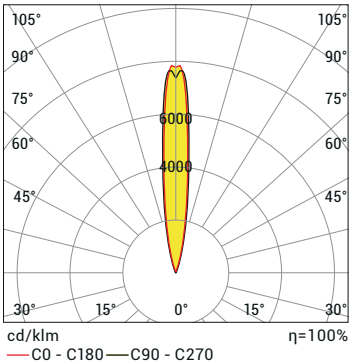
P . W . C . S . O



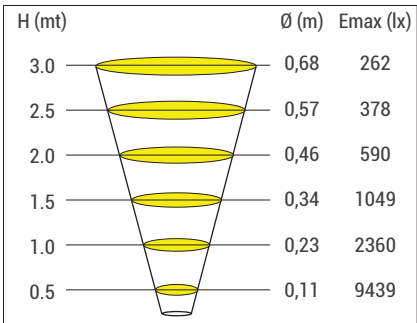
Please contact our sales representatives for special application requests other than the standard product.

Product Diagrams

Polar Diagram



Conical Diagram



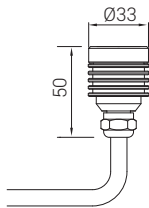
AC500F CW 10D 3W 12-24V DC IP68

Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW	•			•	•	
R,G,B,A	•			•	•	
RGB	•					
RGBA/W						
RGB DMX			•			
WHITE DMX			•			

Product Code	Voltage (V DC)	Control Systems	Cable Core Quantity		
			Mono	RGB	RGB W/A
AC500F	5	PWM	2x	-	-
	7,5	PWM	-	4x	-
	12-24	ON/OFF	2x	-	-





- 316 L chrome body and chrome spot frame
- Polycarbonate luminaire glass
- Plastic injection mounting box
- Underwater connector
- H07RNF rubber cable

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
AC500N	WW-NW-CW	12-24V DC	2	150	0,25
AC500N	WW-NW-CW	12-24V DC	3	310	0,25
AC500N	RGB	7,5V DC	8	-	0,25

Power and Lumen values provided are based off of a lensless product with cold white (CW) LED. It may vary according to the desired color.

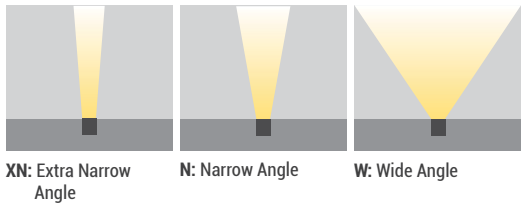
C Light Color Options

WW: Warm White 3000K	R: Red 625nm
NW: Natural White 4000K	G: Green 525nm
CW: Cold White 6500K	B: Blue 465nm
RGB	A: Amber 590nm

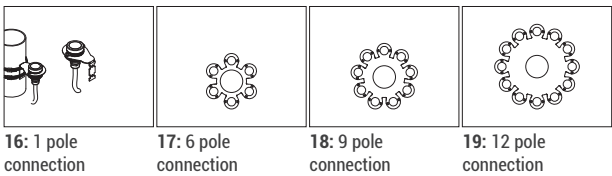
S System Options

- 01 Standart (ON/OFF)
- 02 PWM-DIM

O Lens Options



M Mounting Options



Order Code

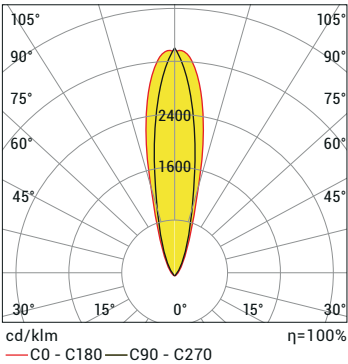
P . W . C . S . O . M



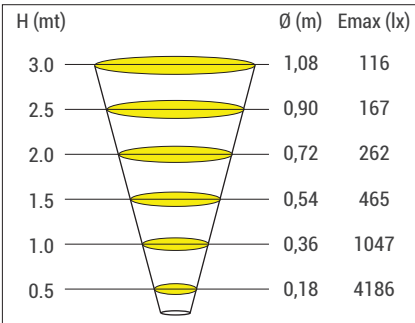
Please contact our sales representatives for special application requests other than the standard product.

Product Diagrams

Polar Diagram



Conical Diagram

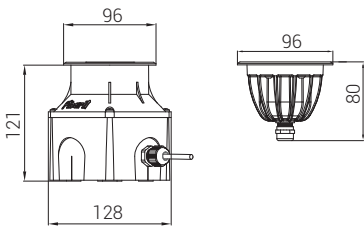


AC500N CW 25D 3W 12-24V DC IP68

Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW	•			•	•	
R,G,B,A	•			•	•	
RGB	•					
RGBA/W	•					
RGB DMX			•			
WHITE DMX			•			

Product Code	Voltage (V DC)	Control Systems	Cable Core Quantity		
			Mono	RGB	RGB W/A
AC500N	5	PWM	2x	-	-
	7,5	PWM	-	4x	-
	12-24	ON/OFF	2x	-	-



- 316L chrome spot frame
- Corrosion protection by double layered electrostatic powder coated body
- 8 mm tempered glass
- Stainless connectors
- Plastic injection mounting box
- Operates with alternate or direct current
- Underwater connector
- H07RNF rubber cable

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
AC1F03	WW-NW-CW	12-24V DC	4	410	0,5
AC1F03	WW-NW-CW	12-24V DC	8	820	0,5
AC1F03	RGB	7,5V DC	8	-	0,5

Power and Lumen values provided are based off of a lensless product with cold white (CW) LED. It may vary according to the desired color.

C Light Color Options

WW: Warm White	3000K	R: Red	625nm
NW: Natural White	4000K	G: Green	525nm
CW: Cold White	6500K	B: Blue	465nm
RGB		A: Amber	590nm

S System Options

- 01 Standart (ON/OFF)
- 02 PWM-DIM

O Lens Options



N: Narrow Angle XW: Without lens

Mounting



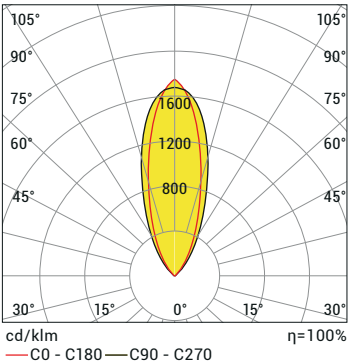
Order Code

P . W . C . S . O

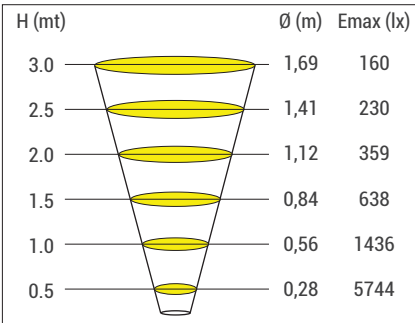


Product Diagrams

Polar Diagram



Conical Diagram



AC1F 3LED CW 8W 12-24V DC IP68

Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW	•			•	•	
R,G,B,A	•			•	•	
RGB	•					
RGBA/W						
RGB DMX			•			
WHITE DMX			•			

Product Code	Voltage (V DC)	Control Systems	Cable Core Quantity		
			Mono	RGB	RGB W/A
AC1F03	7,5	PWM	2x	-	-
	12	PWM	-	4x	-
	12-24	ON/OFF	2x	-	-



Royal Taj Mahal Hotel, Antalya





- 3mm 316 L chrome spot frame
- Corrosion protection by double layered electrostatic powder coated body
- 316 L Press forming chrome body
- 12 mm tempered glass
- Stainless connectors
- Plastic injection mounting box
- Operates with alternate or direct current
- Underwater connector
- H07RNF rubber cable

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
AC3F09	WW-NW-CW	12-24V DC	25	2.400	1,9
AC3F09	WW-NW-CW	12V DC	13	1.200	1,9
AC3F09	RGB	12V DC	18	-	1,9

Power and Lumen values provided are based off of a lensless product with cold white (CW) LED. It may vary according to the desired color.

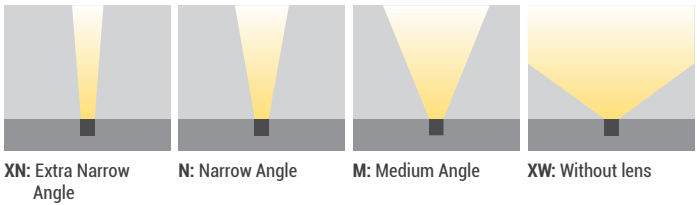
C Light Color Options

WW: Warm White	3000K	R: Red	625nm
NW: Natural White	4000K	G: Green	525nm
CW: Cold White	6500K	B: Blue	465nm
RGB		A: Amber	590nm

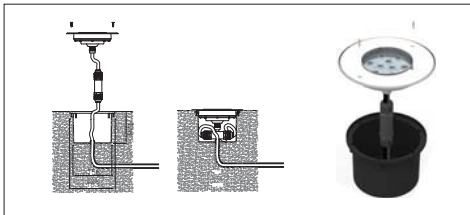
S System Options

- 01 Standart (ON/OFF)
- 02 PWM-DIM
- 03 Invert PWM-DIM

O Lens Options



Mounting



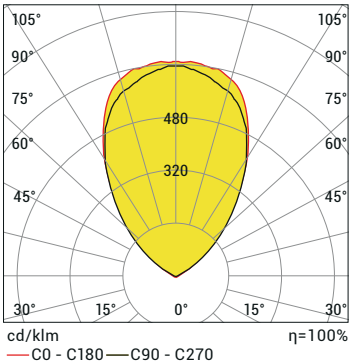
Order Code

P . W . C . S . O

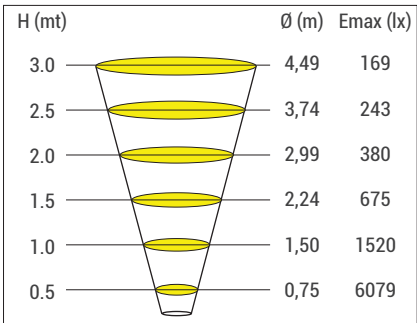


Product Diagrams

Polar Diagram



Conical Diagram



AC3F 9LED CW 60D 25W 12-24V DC IP68

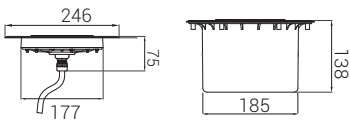
Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW	•			•	•	
R,G,B,A	•			•	•	
RGB	•					
RGBA/W	•					
RGB DMX			•			
WHITE DMX			•			

Product Code	Voltage (V DC)	Control Systems	Cable Core Quantity		
			Mono	RGB	RGB W/A
AC3N09	12	PWM	2x	4x	-
	12-24	ON/OFF	2x	-	-
	12-24	INV-PVM	3x	5x	-



Maxx Royal Hotel, Antalya



- 3mm 316 L chrome spot frame
- 316 L Press forming chrome body
- 12 mm tempered glass
- 316 L Stainless connectors
- Plastic injection mounting box
- Operates with alternate or direct current
- Underwater connector
- H07RNF rubber cable

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
AC5F18	WW-NW-CW	12-24V DC	21	2.100	2,5
AC5F18	WW-NW-CW	12-24V DC	32	3.200	2,5
AC5F18	WW-NW-CW	12-24V DC	46	4.800	2,5
AC5F18 *	RGB	24V DC	36	-	2,5
AC5F18 *	RGB	24V DC	26	-	2,5

Power and Lumen values provided are based off of a lensless product with cold white (CW) LED. It may vary according to the desired color.
*RGB products can be produced in 12-24 V DC and product values may vary

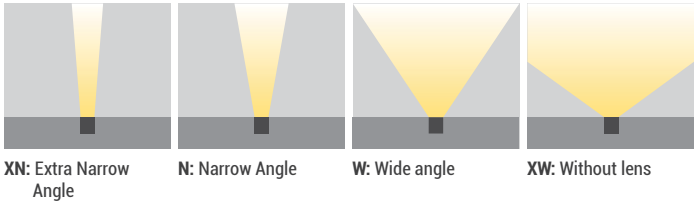
C Light Color Options

WW: Warm White	3000K	R: Red	625nm
NW: Natural White	4000K	G: Green	525nm
CW: Cold White	6500K	B: Blue	465nm
RGB		A: Amber	590nm

S System Options

- 01 Standart (ON/OFF)
- 02 PWM-DIM
- 03 Invert PWM-DIM

O Lens Options



Order Code

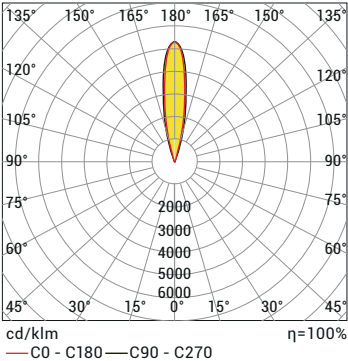
P . W . C . S . O



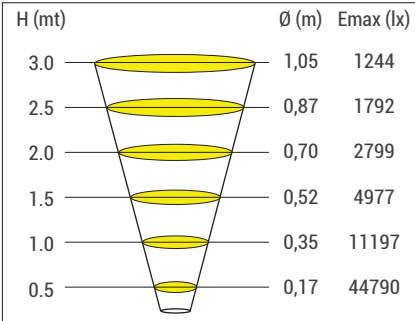
Please contact our sales representatives for special application requests other than the standard product.

Product Diagrams

Polar Diagram



Conical Diagram



AC5F 18LED CW 25D 20W 12-24V DC IP68

Control System Options

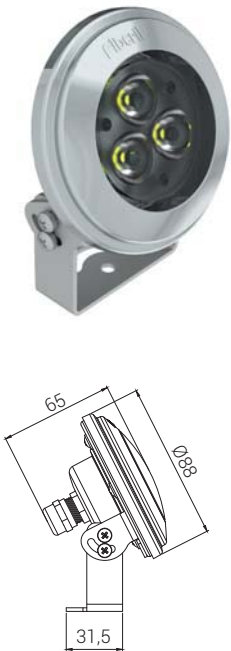
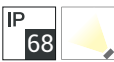
Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW	•	•		•	•	
R,G,B,A	•	•		•	•	
RGB	•	•				
RGBA/W						
RGB DMX			•			
WHITE DMX			•			

Product Code	Voltage (V DC)	Control Systems	Cable Core Quantity		
			Mono	RGB	RGB W/A
AC5F18	24	PWM	2x	4x	-
	12-24	ON/OFF	2x	-	-
	12-24	INV-PVM	2x	5x	-



AL Hamra Palace Hotel, Antalya





- Chrome coated or PC spot frame in white color
- Corrosion protection by double layered electrostatic powder coated body
- Polycarbonate glass
- 316 L Stainless connectors
- Operates with alternate or direct current
- Underwater connector
- H07RNF rubber cable

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
AC1N03	WW-NW-CW	12-24V DC	4	410	0,40
AC1N03	WW-NW-CW	12-24V DC	8	820	0,40
AC1N03	RGB	12-24V DC	4	-	0,40

Power and Lumen values provided are based off of a lensless product with cold white (CW) LED. It may vary according to the desired color.

C Light Color Options

WW: Warm White 3000K	R: Red 625nm
NW: Natural White 4000K	G: Green 525nm
CW: Cold White 6500K	B: Blue 465nm
RGB	A: Amber 590nm

S System Options

- 01 Standart (ON/OFF)
- 02 PWM-DIM
- 03 Invert PWM-DIM

O Lens Options



N: Narrow Angle XW: Without lens

U Upper Piece Options



15: Chrome coated spot frame 16: White plastic spot frame



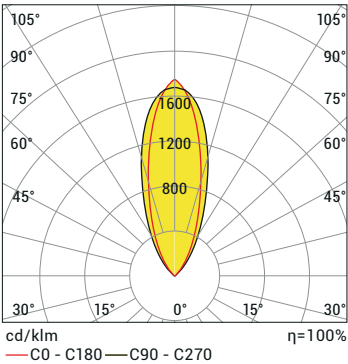
Order Code

P . W . C . S . O . U

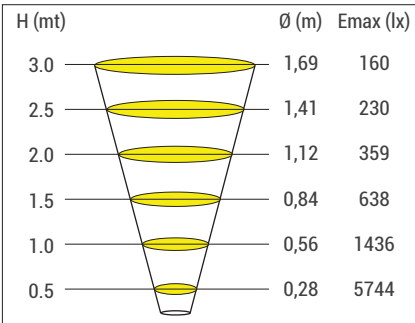


Product Diagrams

Polar Diagram



Conical Diagram

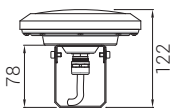
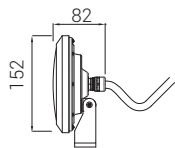
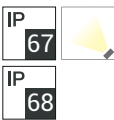


AC1N 3LED CW 8W 12-24V DC IP68

Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW	•			•	•	
R,G,B,A	•			•	•	
RGB	•					
RGBA/W						
RGB DMX			•			
WHITE DMX			•			

Product Code	Voltage (V DC)	Control Systems	Cable Core Quantity		
			Mono	RGB	RGB W/A
AC1N03	7,5	PWM	-	4x	-
	12	PWM	2x	-	-
	12-24	ON/OFF	2x	-	-
	12-24	INV-PVM	3x	5x	-



- Chrome coated or PC spot frame in white color
- 316L stainless steel body
- Corrosion protection by double layered electrostatic powder coated body
- Polycarbonate glass
- 316 L Stainless connectors
- Operates with alternate or direct current
- Underwater connector
- H07RNF rubber cable

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight* (kg)
AC3N09	WW-NW-CW	12-24V DC	12	1.200	0,65-1,3
AC3N09	WW-NW-CW	12-24V DC	18	1.680	0,65-1,3
AC3N09	WW-NW-CW	12-24V DC	25	2.400	0,65-1,3
AC3N09	RGB	12V DC	13	-	0,65-1,3
AC3N09	RGB	12V DC	18	-	0,65-1,3

Power and Lumen values provided are based off of a lensless product with cold white (CW) LED. It may vary according to the desired color.
* Product weight provided is based off of the chrome and aluminum options.

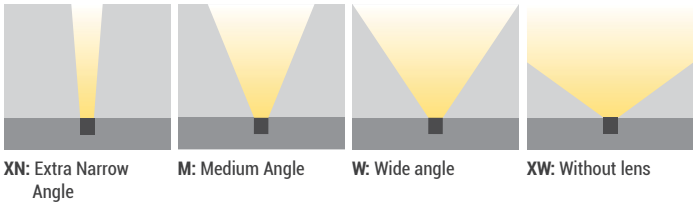
C Light Color Options

● WW: Warm White	3000K	● R: Red	625nm
● NW: Natural White	4000K	● G: Green	525nm
● CW: Cold White	6500K	● B: Blue	465nm
		● A: Amber	590nm

S System Options

- 01 Standart (ON/OFF)
- 02 PWM-DIM
- 03 Invert PWM-DIM

O Lens Options



B Body Options



09: Aluminum body - IP67 10: Chrome Body - IP68

*Application of aluminum and chrome bodies in water are different. Please read the user manual.

K Cable Direction Options



08: Single entry through center 09: Single bottom entry 10: Entry and exit through cover

*Additional underwater cable joint has to be used in need of extra underwater cables.



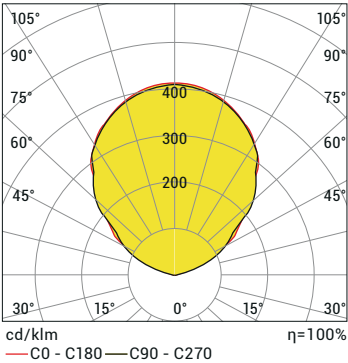
Order Code

P . W . C . S . O . B . K . U

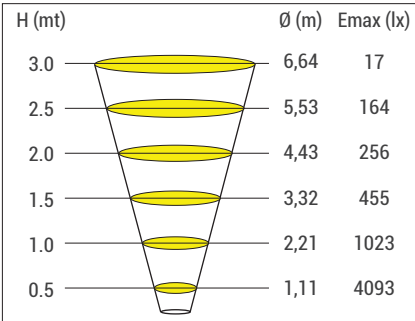


Product Diagrams

Polar Diagram



Conical Diagram



AC3N 9LED CW 120D 25W 12-24V DC IP67

U Upper Piece Options



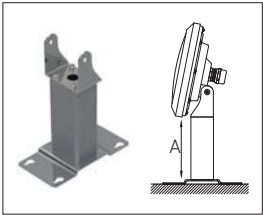
15: Chrome coated spot frame



16: Plastic spot frame in white

Mounting Accessories

Stand extension pieces

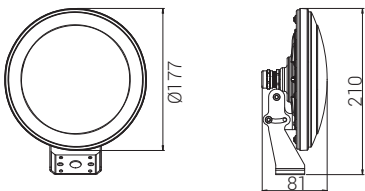
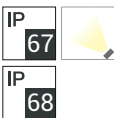


34: 5cm
35: 10cm
36: 20cm

Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW	•			•	•	
R,G,B,A	•			•	•	
RGB	•					
RGBA/W	•					
RGB DMX			•			
WHITE DMX			•			

Product Code	Voltage (V DC)	Control Systems	Cable Core Quantity		
			Mono	RGB	RGB W/A
AC3N09	12	PWM	2x	4x	-
	12-24	ON/OFF	2x	-	-
	12-24	INV-PVM	3x	5x	-



- Chrome coated or PC spot frame in white color
- 316 L Press forming chrome body or aluminum injection electrostatic powder coated body
- Polycarbonate glass
- 316 L Stainless connectors
- Operates with alternate or direct current
- Underwater connector
- H07RNF rubber cable

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
AC5N18	WW-NW-CW	12-24V DC	21	2.100	0,8-1,7
AC5N18	WW-NW-CW	12-24V DC	32	3.200	0,8-1,7
AC5N18	WW-NW-CW	12-24V DC	46	4.800	0,8-1,7
AC5N18*	RGB	24V DC	26	-	0,8-1,7
AC5N18*	RGB	24V DC	36	-	0,8-1,7

Power and Lumen values provided are based off of a lensless product with cold white (CW) LED. It may vary according to the desired colour.
Product weight provided is based off of chrome and aluminum options.
*RGB products can be produced in 12-24 V DC and product values may vary.

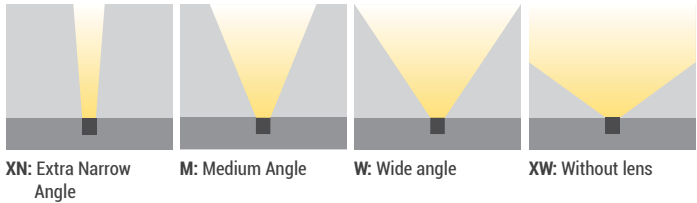
C Light Color Options

● WW: Warm White	3000K	● R: Red	625nm
● NW: Natural White	4000K	● G: Green	525nm
● CW: Cold White	6500K	● B: Blue	465nm
● RGB		● A: Amber	590nm

S System Options

- 01 Standart (ON/OFF)
- 02 PWM-DIM
- 03 Invert PWM-DIM

O Lens Options



B Body Options



09: Aluminum Body - IP67 10: Chrome Body - IP68

*Additional underwater cable joint has to be used in need of extra underwater cables.

K Cable Direction Options



08: Single entry through center 09: Single bottom entry 10: Entry and exit through cover

*Additional underwater cable joint has to be used in need of extra underwater cables.

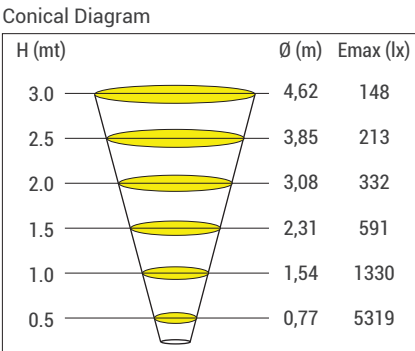
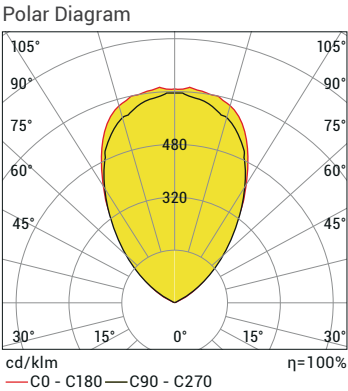


Order Code

P . W . C . S . O . B . K . U



Product Diagrams



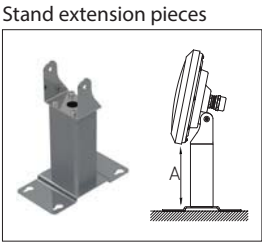
AC5N 18LED CW 60D 20W 12-24V DC IP67

U Upper Piece Options



15: Chrome coated spot frame 16: Plastic spot frame in white

Mounting Options



34: 5cm
35: 10cm
36: 20cm

Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW	•	•		•	•	
R,G,B,A	•	•		•	•	
RGB	•	•				
RGBA/W						
RGB DMX			•			
WHITE DMX			•			

Product Code	Voltage (V DC)	Control Systems	Cable Core Quantity		
			Mono	RGB	RGB W/A
AC5N18	24	PWM	2x	4x	-
	12-24	ON/OFF	2x	-	-
	12-24	INV-PVM	3x	5x	-



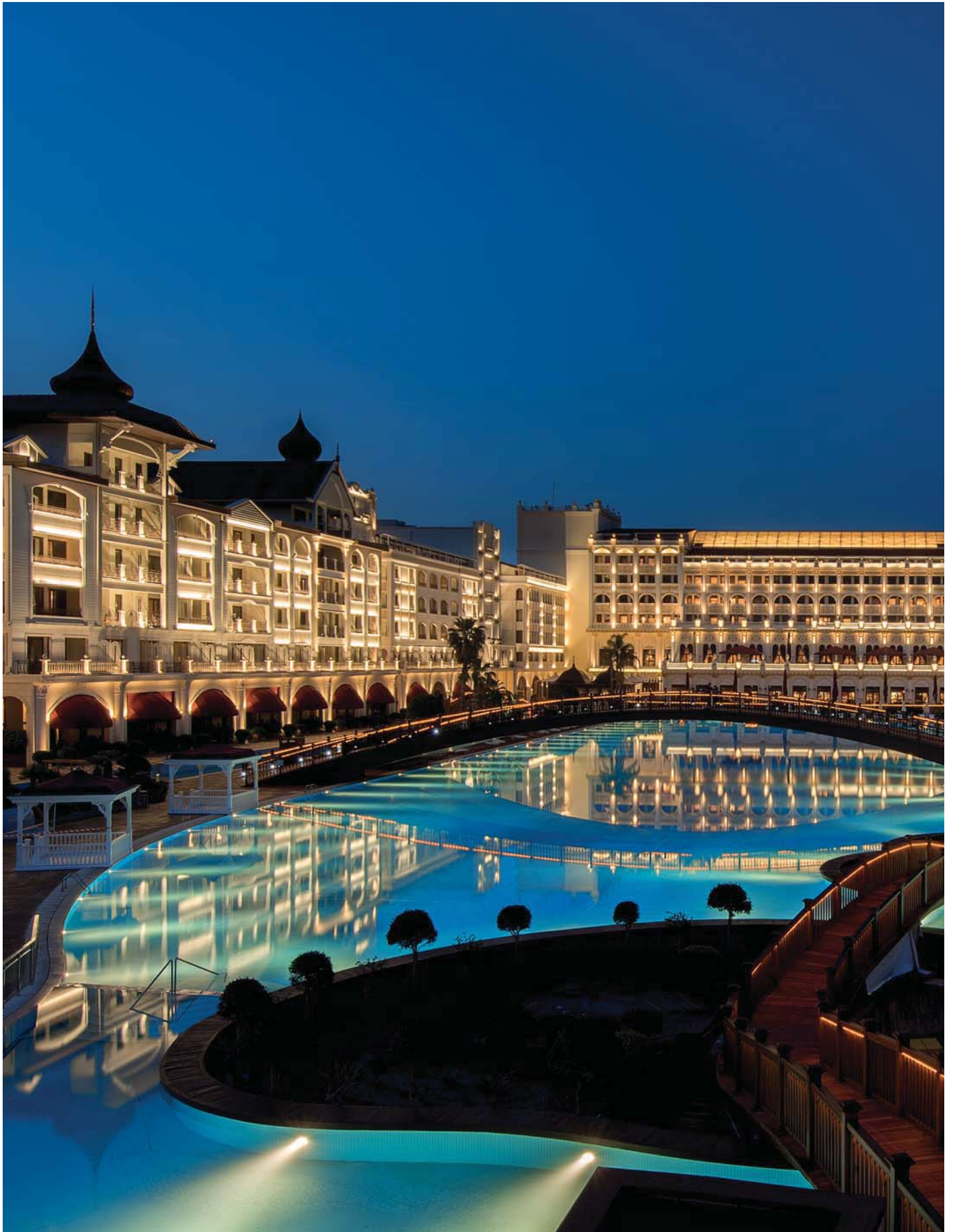
Ornamental Pool, İzmir



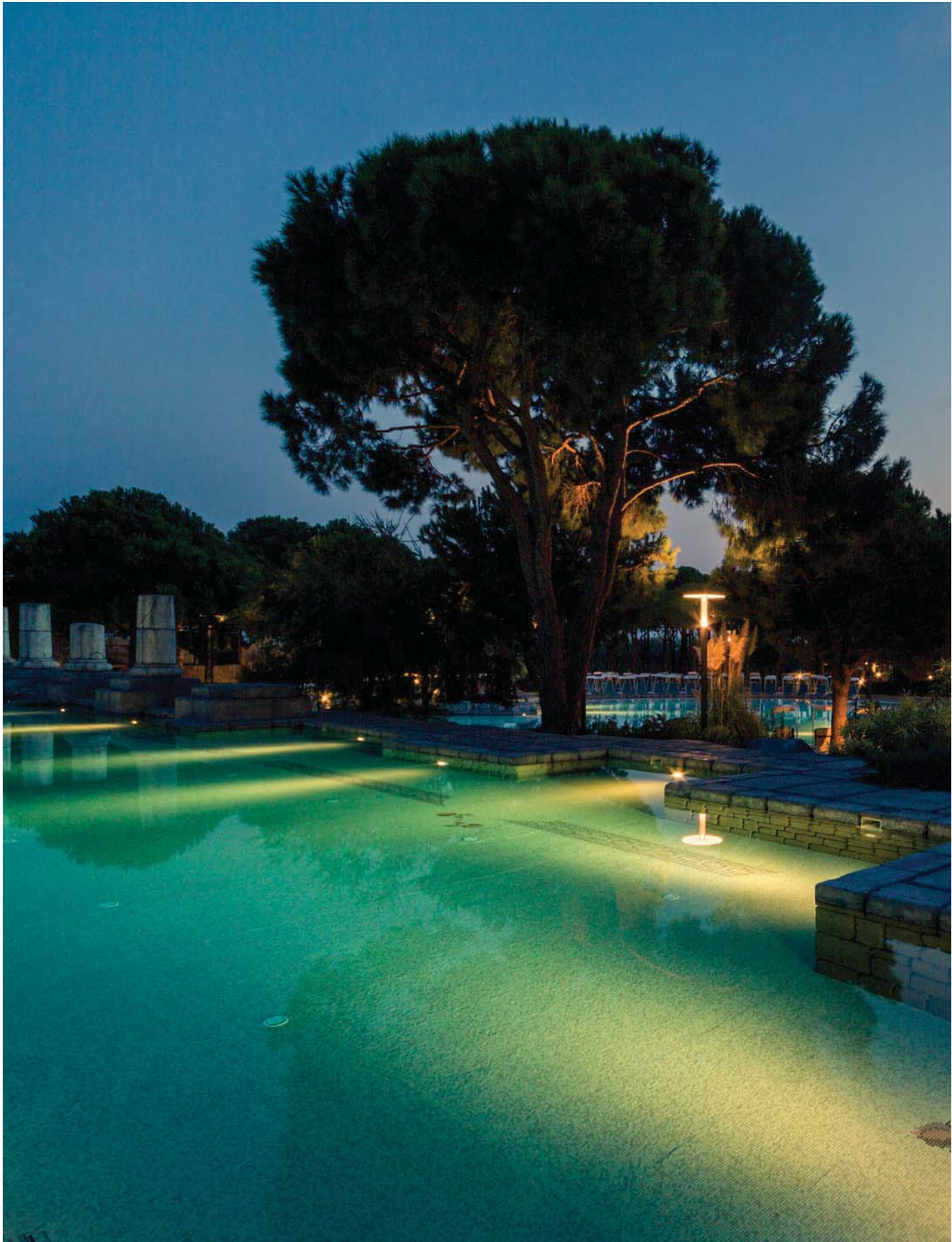


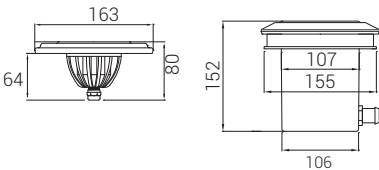
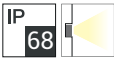
Pool Lighting

Aqua Croma



Mardan Palace Hotel, Antalya





- Corrosion protection by double layered electrostatic powder coated body
- 8 mm tempered glass
- Stainless connectors
- Plastic injection mounting box
- Operates with alternate or direct current
- Underwater connector
- H07RNF rubber cable

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
AC1J03	WW-NW-CW	12-24V DC	4	410	1,1
AC1J03	WW-NW-CW	12-24V DC	8	820	1,1
AC1J03	RGB	7,5V DC	8	-	1,1

Power and Lumen values provided are based off of a lensless product with cold white (CW) LED. It may vary according to the desired color.

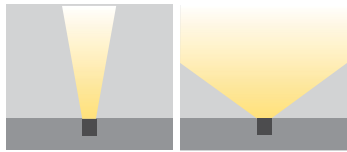
C Light Color Options

WW: Warm White	3000K	R: Red	625nm
NW: Natural White	4000K	G: Green	525nm
CW: Cold White	6500K	B: Blue	465nm
RGB		A: Amber	590nm

S System Options

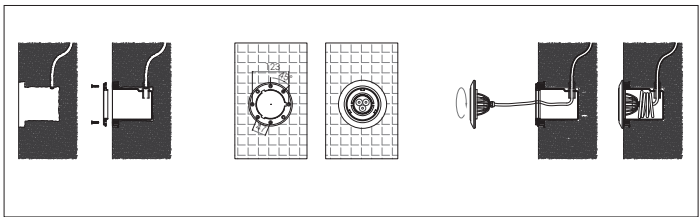
- 01 Standart (ON/OFF)
- 02 PWM-DIM

O Lens Options



N: Narrow Angle XW: Without lens

Mounting



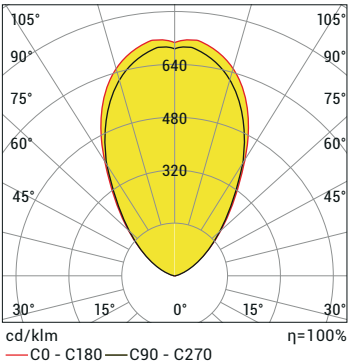
Order Code

P . W . C . S . O

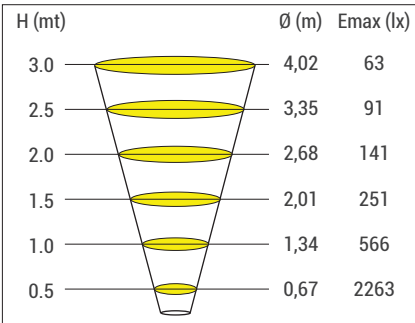


Product Diagrams

Polar Diagram



Conical Diagram

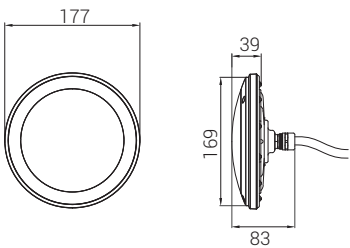
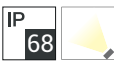


AC1J 3LED CW 8W 12-24V DC IP68

Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW	•			•	•	
R,G,B,A	•			•	•	
RGB	•					
RGBA/W						
RGB DMX			•			
WHITE DMX			•			

Product Code	Voltage (V DC)	Control Systems	Cable Core Quantity		
			Mono	RGB	RGB W/A
AC1J03	7,5	PWM	-	4x	-
	12	PWM	2x	-	-
	12-24	ON/OFF	2x	-	-



- Chrome coated or PC spot frame in white color
- 316 L Press forming chrome body
- Polycarbonate glass
- 316 L Stainless connectors
- Operates with alternate or direct current
- Underwater connector
- H07RNF rubber cable

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
AC5G18	WW-NW-CW	12-24V DC	21	2.100	1,2
AC5G18	WW-NW-CW	12-24V DC	32	3.200	1,2
AC5G18	WW-NW-CW	12-24V DC	46	4.800	1,2
AC5G18*	RGB	24V DC	26	-	1,2
AC5G18*	RGB	24V DC	36	-	1,2

Power and Lumen values provided are based off of a lensless product with cold white (CW) LED. It may vary according to the desired color.
* RGB products can be produced in 12-24 V DC and product values may vary

C Light Color Options

WW: Warm White	3000K	R: Red	625nm
NW: Natural White	4000K	G: Green	525nm
CW: Cold White	6500K	B: Blue	465nm
RGB		A: Amber	590nm

S System Options

- 01 Standart (ON/OFF)
- 02 PWM-DIM
- 03 Invert PWM-DIM

O Lens Options



XN: Extra Narrow Angle N: Narrow Angle M: Medium Angle XW: Without lens

U Upper Piece Options



15: Chrome coated 16: White



Order Code

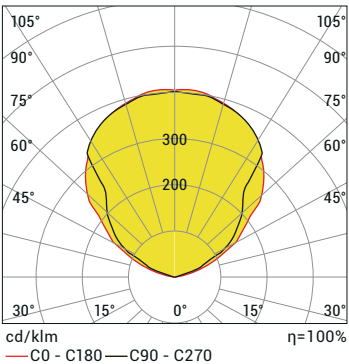
P . W . C . S . O . U



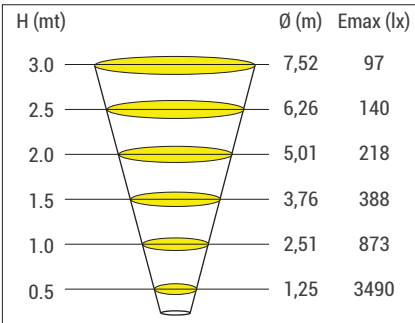
Please contact our sales representatives for special application requests other than the standard product.

Product Diagrams

Polar Diagram



Conical Diagram



AC5G 18LED CW 120D 20W 12-24V DC IP68

Control System Options

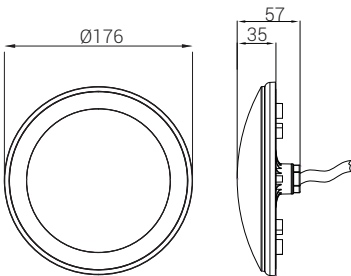
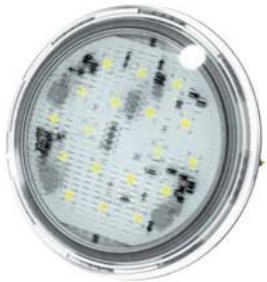
Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW	•	•		•	•	
R,G,B,A	•	•		•	•	
RGB	•	•				
RGBA/W						
RGB DMX			•			
WHITE DMX			•			

Product Code	Voltage (V DC)	Control Systems	Cable Core Quantity		
			Mono	RGB	RGB W/A
AC5G18	12	PWM	2x	4x	-
	12-24	ON/OFF	2x	-	-
	12-24	INV-PVM	3x	5x	-



Royal Seginus Hotel, Antalya





- Plastic injection PC body
 - Polycarbonate glass
 - Operates with alternate or direct current
 - Underwater connector
 - H07RNF rubber cable
 - Only PAR 56 lamp with LED is included.
- Mounting shell and pieces are not included

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
AC5GE18	WW-NW-CW	24V DC	18	1.800	0,8
AC5GE36	WW-NW-CW	12-24V DC	18	1.800	0,8

Power and Lumen values provided are based off of a "cold white (CW) LED". It may vary according to the desired color.

C Light Color Options

WW: Warm White	3000K	R: Red	625nm
NW: Natural White	4000K	G: Green	525nm
CW: Cold White	6500K	B: Blue	465nm

S System Options

- 01 Standart (ON/OFF)
- 02 PWM-DIM



Order Code

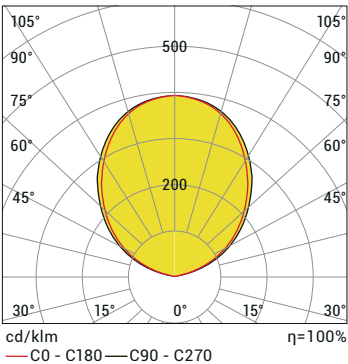
P . W . C . S



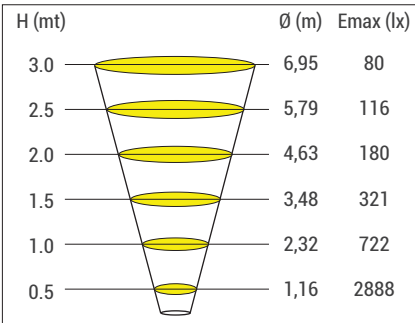
Please contact our sales representatives for special application requests other than the standard product.

Product Diagrams

Polar Diagram



Conical Diagram

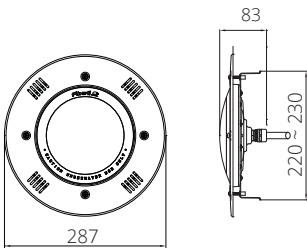


AC5GE 18LED CW 120D 18W 12-24V DC IP68

Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW	•			•	•	
R,G,B,A	•			•	•	
RGB						
RGBA/W						
RGB DMX						
WHITE DMX						

Product Code	Voltage (V DC)	Control Systems	Cable Core Quantity		
			Mono	RGB	RGB W/A
AC5GE	24	PWM	2x	-	-
	12-24	ON/OFF	2x	-	-



- 316 L chrome spot body
- 316 L Stainless connectors
- Polycarbonate glass
- Operates with alternate or direct current
- Underwater connector
- H07RNF rubber cable
- Mounting shell and pieces are not included

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
AC5K18	WW-NW-CW	12-24V DC	21	2100	1,4
AC5K18	WW-NW-CW	12-24V DC	32	3200	1,4
AC5K18	WW-NW-CW	12-24V DC	45	4800	1,4
AC5K18 *	RGB	24V DC	26	-	1,4
AC5K18 *	RGB	24V DC	36	-	1,4

Power and Lumen values provided are based off of a lensless product with cold white (CW) LED. It may vary according to the desired color.
*RGB products can be produced in 12-24 V DC and product values may vary.

C Light Color Options

● WW: Warm White	3000K	● R: Red	625nm
● NW: Natural White	4000K	● G: Green	525nm
● CW: Cold White	6500K	● B: Blue	465nm
● RGB		● A: Amber	590nm

S System Options

- 01 Standart (ON/OFF)
- 02 PWM-DIM
- 03 Invert PWM-DIM

O Lens Options



XN: Extra Narrow Angle N: Narrow Angle M: Medium Angle XW: Without lens



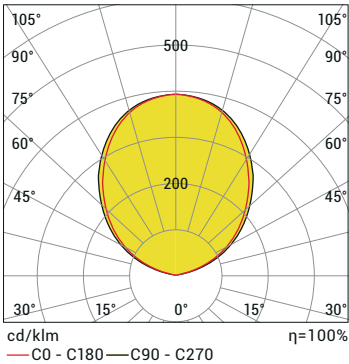
Order Code

P . W . C . S . O

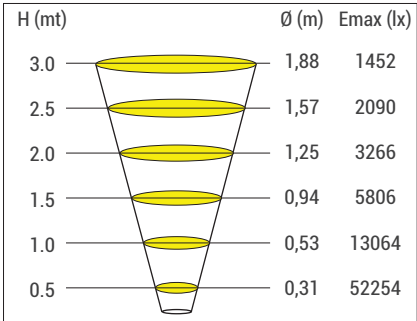


Product Diagrams

Polar Diagram



Conical Diagram

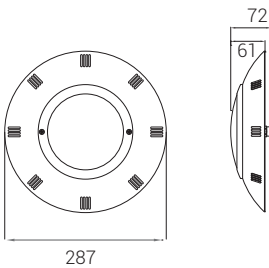


AC5K 18LED CW 45W 12-24V DC IP68

Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW	•	•		•	•	
R,G,B,A	•	•		•	•	
RGB	•	•				
RGBA/W						
RGB DMX			•			
WHITE DMX			•			

Product Code	Voltage (V DC)	Control Systems	Cable Core Quantity		
			Mono	RGB	RGB W/A
AC5K09	24	PWM	2x	4x	-
	12-24	ON/OFF	2x	-	-
	12-24	INV-PVM	3x	5x	-



- Chrome coated or PC spot frame in white color
- 316 L Press forming chrome body
- Polycarbonate glass
- 316 L Stainless connectors
- Operates with alternate or direct current
- Underwater connector
- H07RNF rubber cable

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
AC5Y18	WW-NW-CW	12-24V DC	21	2100	1,1
AC5Y18	WW-NW-CW	12-24V DC	32	3200	1,1
AC5Y18	WW-NW-CW	12-24V DC	46	4800	1,1
AC5Y18*	RGB	24V DC	26	-	1,1
AC5Y18*	RGB	24V DC	36	-	1,1

Power and Lumen values provided are based off of a lensless product with cold white (CW) LED. It may vary according to the desired color.
* RGB products can be produced in 12-24 V DC and product values may vary.

C Light Color Options

WW: Warm White	3000K	R: Red	625nm
NW: Natural White	4000K	G: Green	525nm
CW: Cold White	6500K	B: Blue	465nm
RGB		A: Amber	590nm

S System Options

- 01 Standart (ON/OFF)
- 02 PWM-DIM
- 03 Invert PWM-DIM

O Lens Options



XN: Extra Narrow Angle N: Narrow Angle M: Medium Angle XW: Without lens

B Body Options



15: Chrome coated

16: White



Order Code

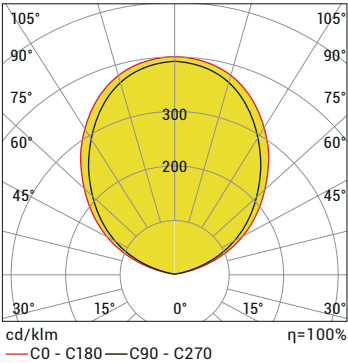
P . W . C . S . O . B



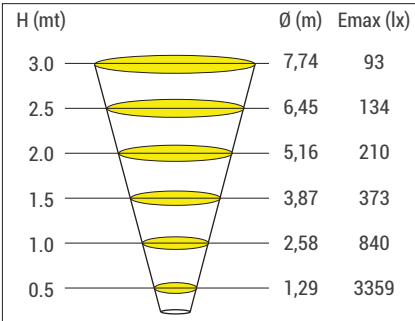
Please contact our sales representatives for special application requests other than the standard product.

Product Diagrams

Polar Diagram



Conical Diagram



AC5Y 18LED CW 120D 20W 12-24V DC IP68

Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW	•	•		•	•	
R,G,B,A	•	•		•	•	
RGB	•	•				
RGBA/W						
RGB DMX			•			
WHITE DMX			•			

Product Code	Voltage (V DC)	Control Systems	Cable Core Quantity		
			Mono	RGB	RGB W/A
AC5Y09	24	PWM	2x	4x	-
	12-24	ON/OFF	2x	-	-
	12-24	IN-PWM	2x	5x	-





Garden Illumination

LL

DP

CD

WW

CS

CF

AC

CG

CB

HB

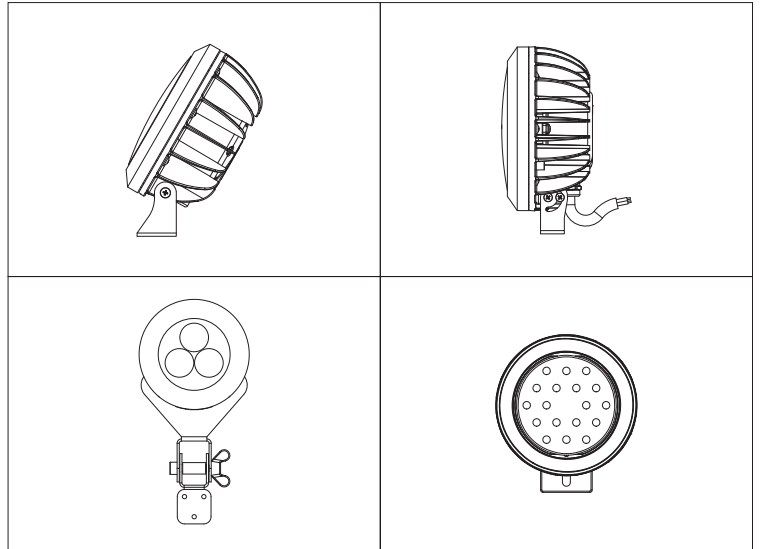
MM

RDMX

LC

FO

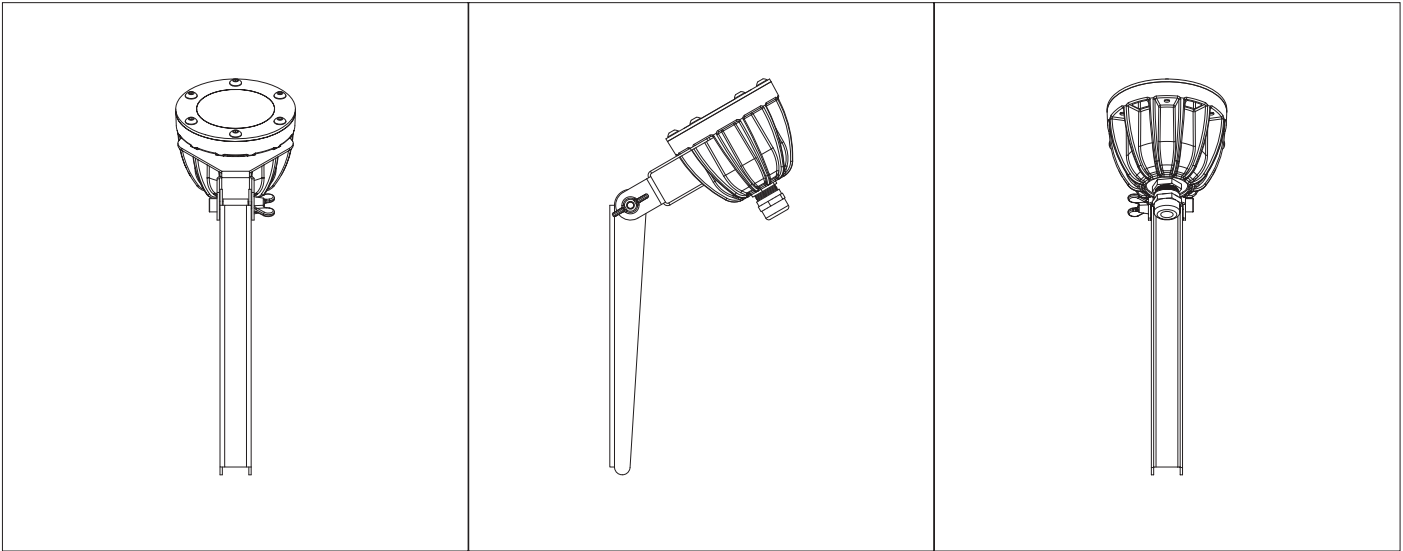
EL



Croma Gardena

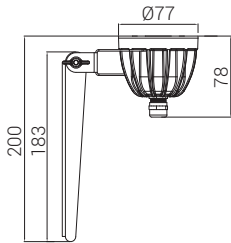
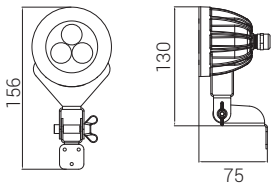
The Croma gardena series is utilised in the illumination of public spaces such as parks, gardens and squares. These luminaires offer an aesthetical illumination of garden compositions. The luminaires can be produced in mono color or RGB as per order. Also, they provide the opportunity to render various luminous effects for landscape architects with a wide range of color options and the capability to change colors. They provide excellent solutions and are energy efficient without being affected by adverse weather conditions due to their powerful technical structures.

Garden Illumination



CromaGardena - Garden Lighting





- 316L chrome flange
- Electrostatic powder painted, cataphoresis coating aluminum injection body
- 8mm polycarbonate or tempered luminaire glass
- Stainless connector
- Underwater cable joint
- H07RNF rubber cable

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
CG103	WW-NW-CW	220-240V AC	4	440	0,7
CG103	RGB	7,5V DC	8	-	0,7

*Power and Lumen values provided are based off of a lensless product with cold white (CW) LED. It may vary according to the desired colour.

C Light Color Options

WW: Warm White	3000K	R: Red	625nm
NW: Natural White	4000K	G: Green	525nm
CW: Cold White	6500K	B: Blue	465nm
RGB		A: Amber	590nm

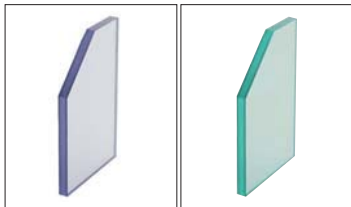
O Lens Options



XN: Extra Narrow Angle N: Narrow Angle W: Wide angle XW: Without lens

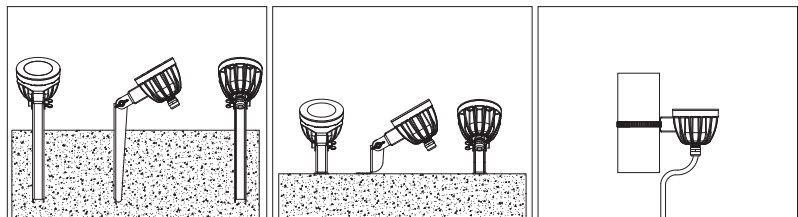
* Only for 220V AC

U Upper Piece Options



03: Polycarbonate glass 04: Tempered glass

M Mounting Options



13: Stake Mount 14: Screw Mount 15: Clap Mount



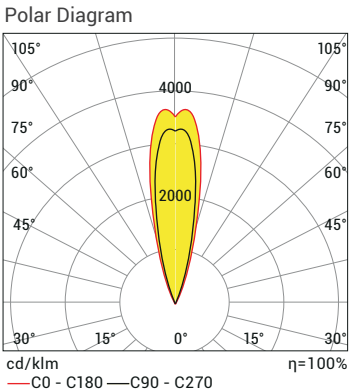
Order Code

P . W . C . O . U . M

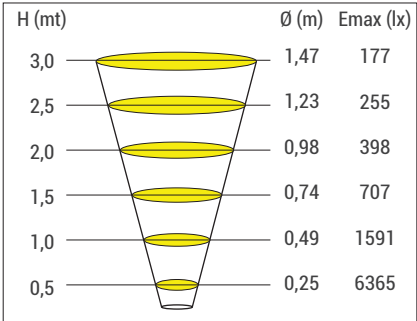


Please contact our sales representatives for special application requests other than the standard product.

Product Diagrams



Conical Diagram



CG1 3 LED CW 25D 4W 220VAC 50HZ IP67

Control System Options

Color Type	PWM	INV PWM	DMX	DALI *	0-10V DC*	TRIAC
WW-NW-CW	•			•	•	
R,G,B,A	•			•	•	
RGB	•					
RGBA/W						
RGB DMX			•			
WHITE DMX			•			

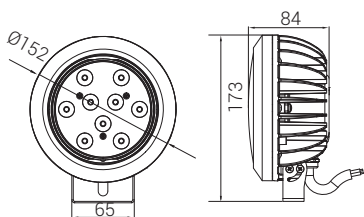
* DALI and 0-10V can only make DC working voltage

Product Code	Voltage (V DC)	Control Systems	Cable Core Quantity		
			Mono	RGB	RGB W/A
CG103	7,5	PWM	-	4x	-
	12	PWM	2x	-	-
	12-24	ON/OFF	2x	-	-
	12-24	INV-PVM	3x	-	-



Maxx Royal Hotel, Antalya





- Chrome coated, grey or white PC frame
- Electrostatic powder painted, cataphoresis coating aluminum injection body
- Polycarbonate luminaire glass
- Stainless connector
- Underwater cable joint
- H07RNF rubber cable
- IP68 Air Vent

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
CG306	WW-NW-CW	220-240V AC	8	880	1,3
CG309	WW-NW-CW	220-240V AC	10	1.320	1,3
CG309	WW-NW-CW	12-24V DC	10	460	1,3
CG309	RGB	12V DC	13	-	1,3

Power and Lumen values provided are based off of a lensless product with cold white (CW) LED. It may vary according to the desired colour.

C Light Color Options

WW: Warm White	3000K	R: Red	625nm
NW: Natural White	4000K	G: Green	525nm
CW: Cold White	6500K	B: Blue	465nm
RGB		A: Amber	590nm

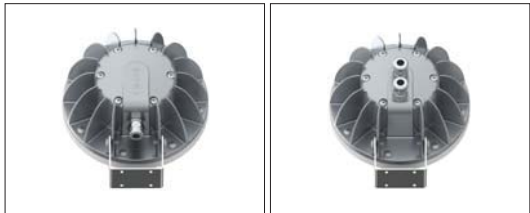
O Lens Options



XN: Extra Narrow Angle N: Narrow Angle W: Wide angle XW: Without lens

* Only for 220V AC

K Cable Direction Options



09: Single bottom entry 10: Entry and exit on the cover *

* Only for DC options

U Upper Piece Options



15: Chrome coated spot frame 16: Plastic spot frame in white 17: Plastic spot frame in grey



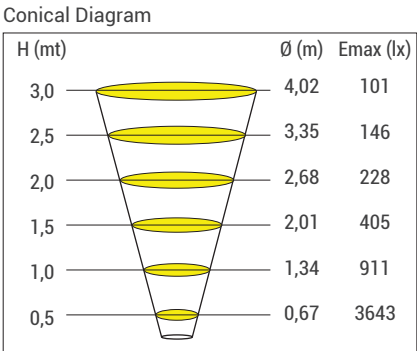
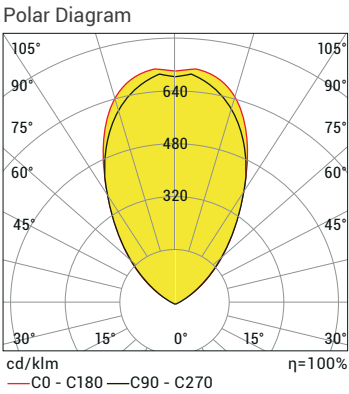
Order Code

P . W . C . O . K . U . M

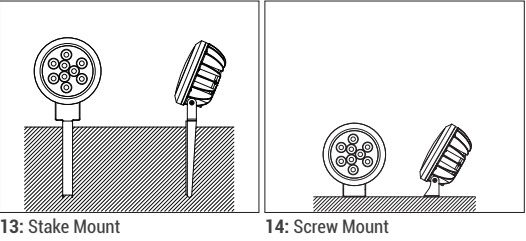


Please contact our sales representatives for special application requests other than the standard product.

Product Diagrams



M Mounting Options



Additional Piece Option

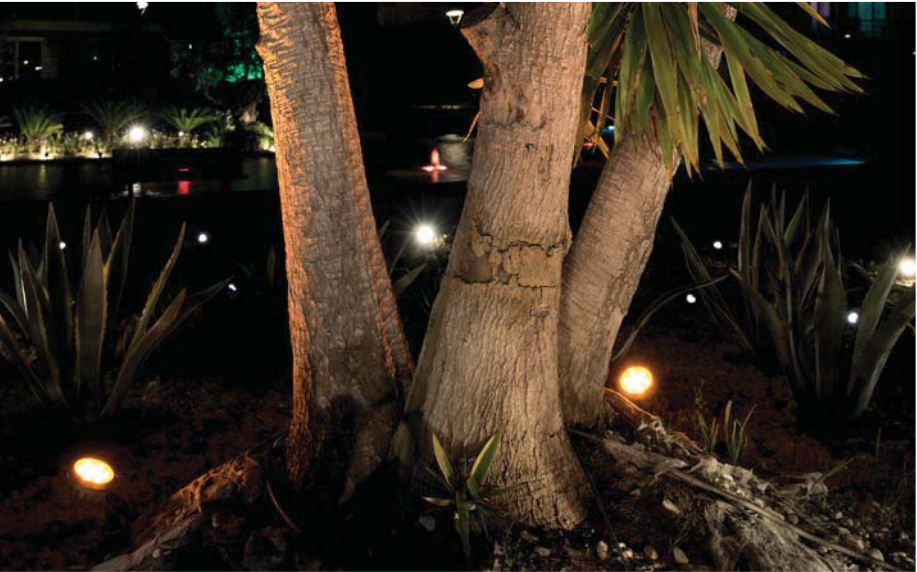


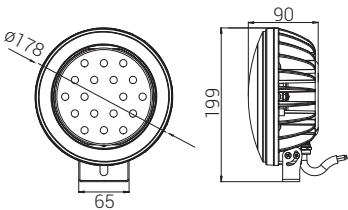
Control System Options

Color Type	PWM	INV PWM	DMX	DALI *	0-10V DC*	TRIAC
WW-NW-CW	•	•		•	•	
R,G,B,A	•	•		•	•	
RGB	•	•				
RGBA/W						
RGB DMX			•			
WHITE DMX			•			

* DALI and 0-10V can only make DC working voltage

Product Code	Voltage (V DC)	Control Systems	Cable Core Quantity		
			Mono	RGB	RGB W/A
CG309	12	PWM	2x	4x	-
	12-24	ON/OFF	2x	-	-





- Chrome coated, grey or white PC frame
- Electrostatic powder painted, cataphoresis coating aluminum injection body
- Polycarbonate luminaire glass
- Stainless connector
- Underwater cable joint
- H07RNF rubber cable
- IP68 Air Vent

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
CG512	WW-NW-CW	220-240V AC	14	1.550	1,75
CG518	WW-NW-CW	220-240V AC	21	2.805	1,75
CG518	RGB	24V DC	26	-	1,75
CG518-DMX	RGB	24V DC	24	-	1,75
CG524-PDMX	RGB/A	12-24V DC	24	-	1,85
CG524-PDMX	RGB/W	12-24V DC	26	-	1,85

Power and Lumen values provided are based off of a lensless product with cold white (CW) LED. It may vary according to the desired colour.

C Light Color Options

● WW: Warm White	3000K	● R: Red	625nm	● RGB
● NW: Natural White	4000K	● G: Green	525nm	● RGBW
● CW: Cold White	6500K	● B: Blue	465nm	● RGBA
		● A: Amber	590nm	

*Different colours are optional

O Lens Options



XN: Extra Narrow Angle

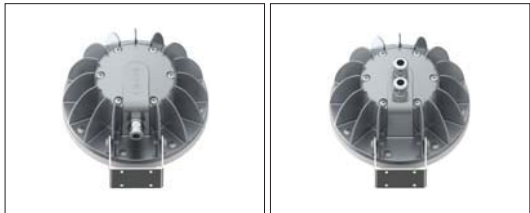
N: Narrow Angle

M: Medium Angle

XW: Without lens

* Only for 220V AC

K Cable Direction Options



09: Single bottom entry

10: Entry and exit on the cover *

* Only for DC options

U Upper Piece Options



15: Chrome coated spot frame

16: Plastic spot frame white

17: Plastic spot frame in grey



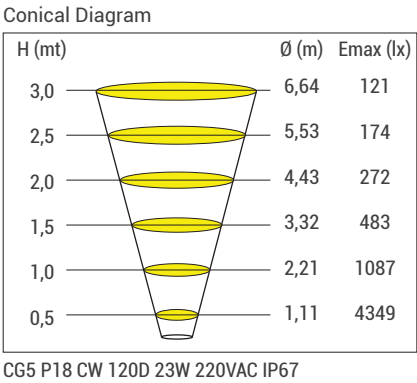
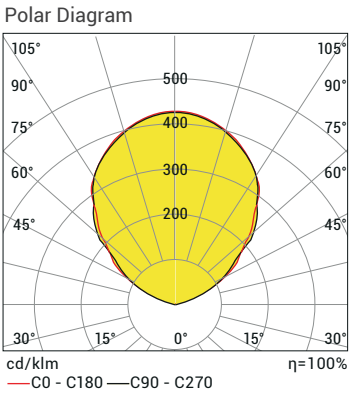
Order Code

P . W . C . O . K . U . M

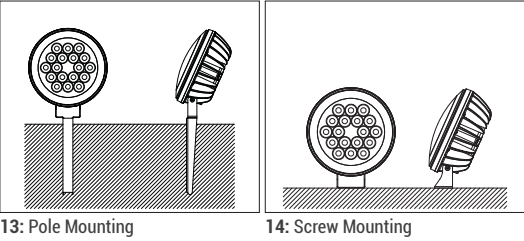


Please contact our sales representatives for special application requests other than the standard product.

Product Diagrams



M Mounting Options



Additional Piece Option



Control System Options

Color Type	PWM	INV PWM	DMX	DALI*	0-10V DC*	TRIAC
WW-NW-CW	•	•		•	•	
R,G,B,A	•	•		•	•	
RGB	•	•				
RGBA/W		•				
RGB DMX			•			
WHITE DMX			•			

* DALI and 0-10V can only make DC working voltage

Product Code	Voltage (V DC)	Control Systems	Cable Core Quantity		
			Mono	RGB	RGB W/A
CG518	24	PWM	2x	4x	-
	12-24	ON/OFF	2x	-	-





LL

DP

CD

WW

CS

CF

AC

CG

CB

HB

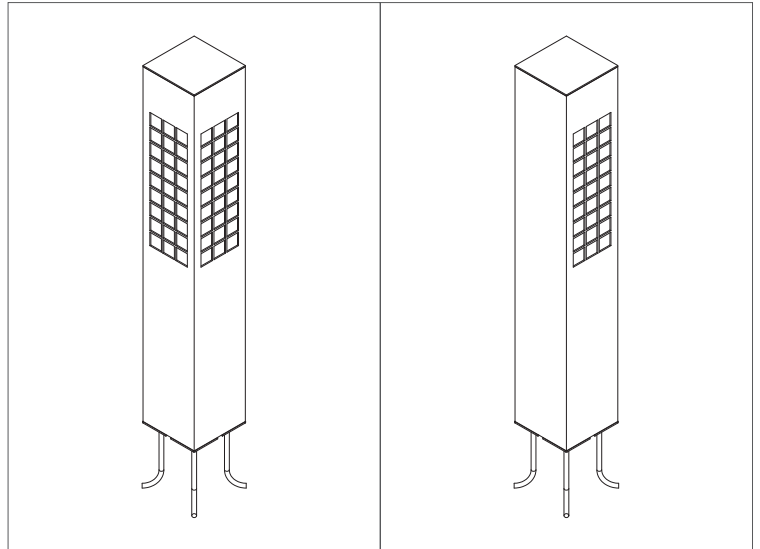
MM

RDMX

LC

FO

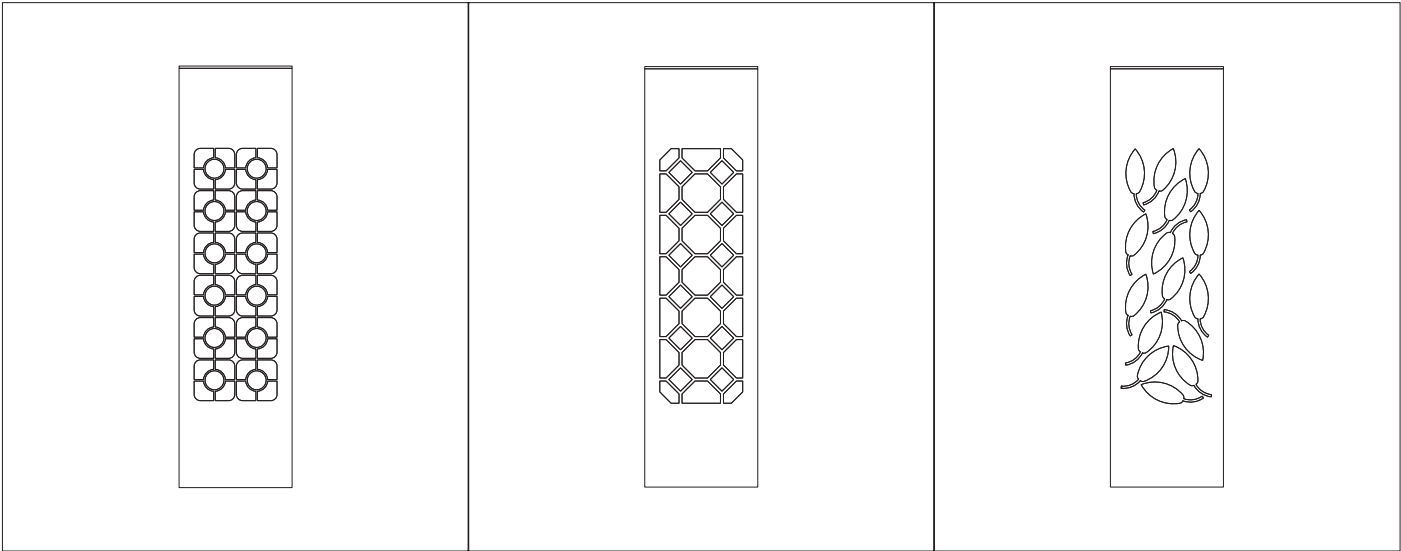
EL



• Croma Bollard

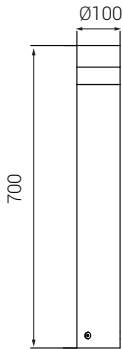
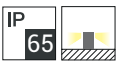
The Croma Bollard series is utilised in the illumination of public spaces such as parks, gardens and squares. These luminaires offer an aesthetical illumination of garden compositions. The luminaires can be produced in mono color or RGB as per order. Also, they provide the opportunity to render various luminous effects for landscape architects with a wide range of color options and the capability to change colors. They provide excellent solutions and are energy efficient without being affected by adverse weather conditions due to their powerful technical structure.

Garden Illumination



CromaBollard - Decorative Garden Lighting





- Electrostatic powder coated aluminum extruded body
- Non-yellowing acrylic luminaire glass
- Anti-glare, high efficient, asymmetrical reflector
- Stainless fittings

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
CBC100	WW-NW-CW	220-240V AC	12	700	2,6

Power and Lumen values provided are based off of a "cold white (CW) LED".

C Light Color Options

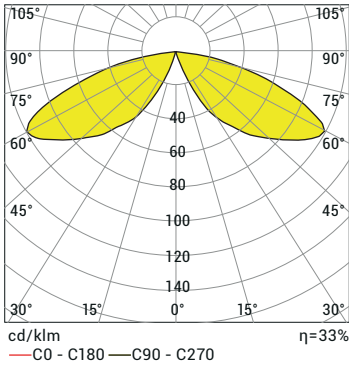
WW: Warm White	3000K
NW: Natural White	4000K
CW: Cold White	6500K

G Housing Color Options

RAL9005	RAL9016	RAL9007

Product Diagrams

Polar Diagram



Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW						
R,G,B,A						
RGB						
RGBA/W						
RGB DMX						
WHITE DMX						

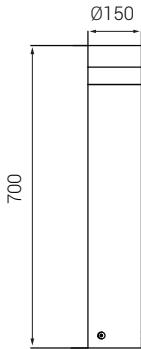
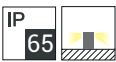


Order Code

P . W . C . G



Please contact our sales representatives for special application requests other than the standard product.



- Electrostatic powder coated aluminum extruded body
- Non-yellowing acrylic luminaire glass
- Anti-glare, high efficient, asymmetrical reflector
- Stainless fittings

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
CBC150	WW-NW-CW	220-240V AC	30	1800	4,5

Power and Lumen values provided are based off of a "cold white (CW) LED".

C Light Color Options

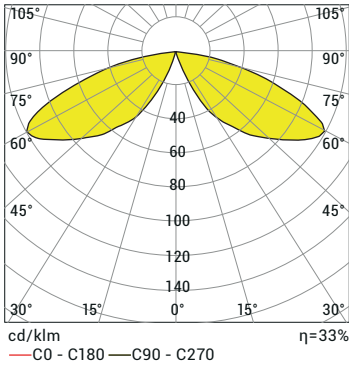
WW: Warm White	3000K
NW: Natural White	4000K
CW: Cold White	6500K

G Housing Color Options

RAL9005	RAL9016	RAL9007

Product Diagrams

Polar Diagram



Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW						
R,G,B,A						
RGB						
RGBA/W						
RGB DMX						
WHITE DMX						

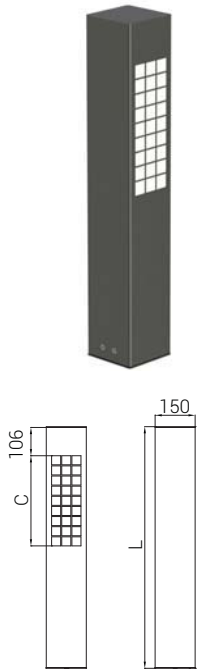
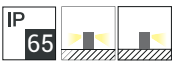


Order Code

P . W . C . G



Please contact our sales representatives for special application requests other than the standard product.



- Electrostatic powder coated steel body
- Plexiglas diffused luminaire glass
- Stainless connectors

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Measurements (CxL) (mm)	Weight (kg)
CBW 7	WW-NW-CW	220-240V AC	32	2.240	2900x7000	10,8
CBW 9	WW-NW-CW	220-240V AC	42	2.940	3900x9000	12,3
CBW 11	WW-NW-CW	220-240V AC	50	3.500	4900x1.1000	15,8

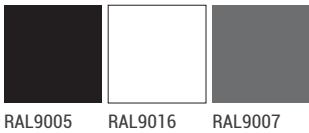
Power and Lumen values provided are based off of a "cold white (CW) LED".

C Light Color Options

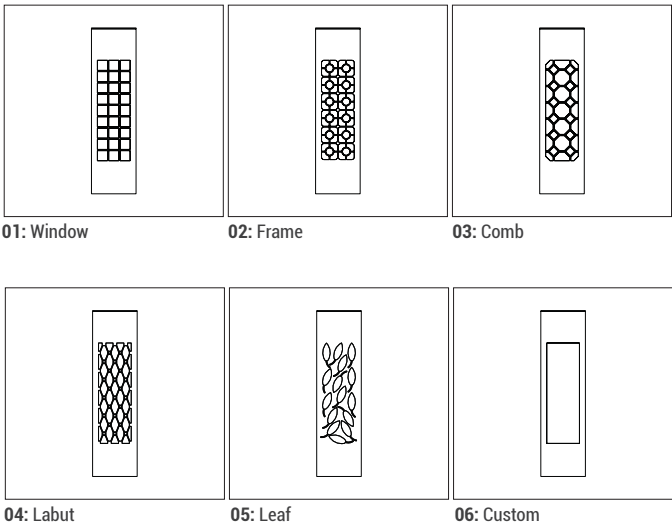
WW: Warm White 3000K	R: Red 625nm	RGB *
NW: Natural White 4000K	G: Green 525nm	RGBW *
CW: Cold White 6500K	B: Blue 465nm	RGBW *
RGB	A: Amber 590nm	RGBA *

*Only for 24V DC

G Housing Color Options



B Body Options

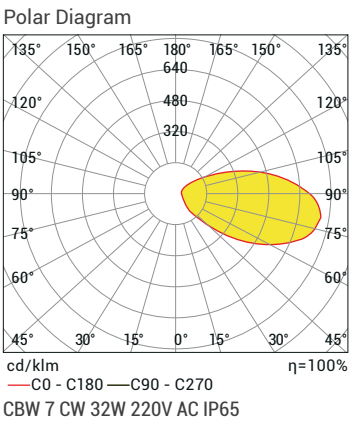


Order Code

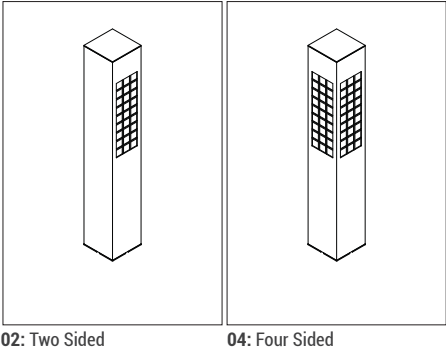
P . W . C . G . B . E



Please contact our sales representatives for special application requests other than the standard product.



E Additional Piece Options

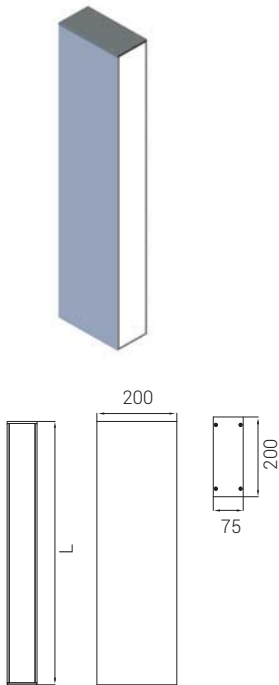
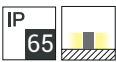


Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW	•					
R,G,B,A	•					
RGB	•					
RGBA/W	•					
RGB DMX						
WHITE DMX						



Vib Antalya Hotel, Antalya



- Electrostatic powder coated steel body
- Plexiglas diffused luminaire glass
- Stainless connectors

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Dimension (L)	Weight (kg)
CBT440	WW-NW-CW	220-240V AC	24	1.920	440	5,5
CBT660	WW-NW-CW	220-240V AC	32	2.560	660	8,0
CBT1340	WW-NW-CW	220-240V AC	70	5.600	1300	15,8

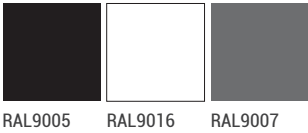
*Power and Lumen values provided are based off of a "cold white (CW) LED".

C Light Color Options

WW: Warm White	3000K
NW: Natural White	4000K
CW: Cold White	6500K

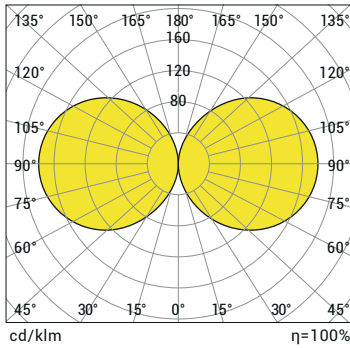
*Different colours are optional

G Housing Color Options



Product Diagrams

Polar Diagram



CBT CW 7W 220V AC IP65

Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW						
R,G,B,A						
RGB						
RGBA/W						
RGB DMX						
WHITE DMX						

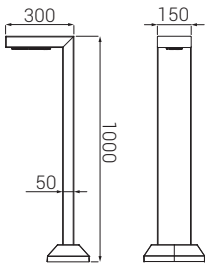


Order Code

P . W . C . G



Please contact our sales representatives for special application requests other than the standard product.



- Corrosion resistant die-cast aluminium extrusion body or stainless steel body
- Excellent heat dissipation for cooling electronic components
- Impact and heat resistant IP lens group
- Stainless steel screws
- Waterproof and durable silicone gaskets
- Electrostatic polyester powder coating with high thermal conductivity

P W Product & Power Options

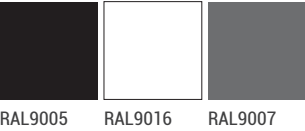
Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
Bollard-L	WW-NW-CW	220-240V AC	9	950	3,8
Bollard-L	WW-NW-CW	220-240V AC	18	1900	3,8

Power and Lumen values provided are based off of a "cold white (CW) LED".

C Light Color Options

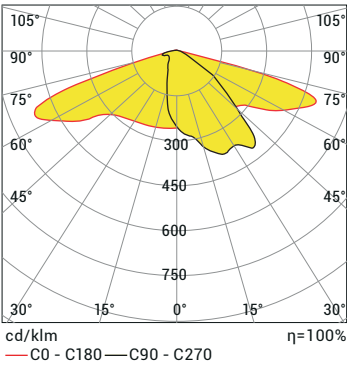
WW: Warm White	3000K
NW: Natural White	4000K
CW: Cold White	6500K

G Housing Color Options



Product Diagrams

Polar Diagram



BOLLARD-L NW 9W 220V AC IP66

Accessories



Fuse

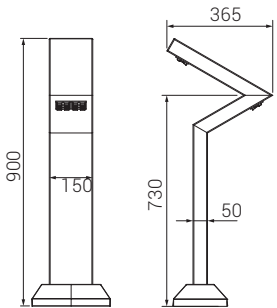
Surge protection device



Order Code

P . W . C . G





- Corrosion resistant die-cast aluminium extrusion body or stainless steel body
- Excellent heat dissipation for cooling electronic components
- Impact and heat resistant IP lens group
- Stainless steel screws
- Waterproof and durable silicone gaskets
- Electrostatic polyester powder coating with high thermal conductivity

P W Product & Power Options

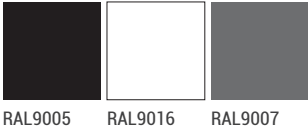
Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
Bollard-V	WW-NW-CW	220-240V AC	9	950	3,8
Bollard-V	WW-NW-CW	220-240V AC	18	1900	3,8

Power and Lumen values provided are based off of a "cold white (CW) LED".

C Light Color Options

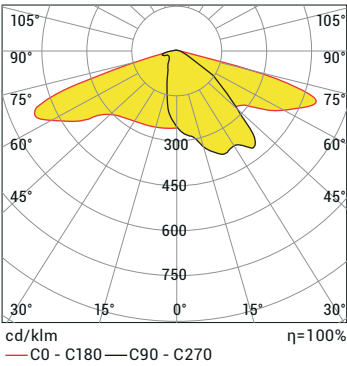
WW: Warm White	3000K
NW: Natural White	4000K
CW: Cold White	6500K

G Housing Color Options



Product Diagrams

Polar Diagram



BOLLARD-V NW 18W 220V AC IP66

Accessories



Fuse



Surge protection device



Order Code

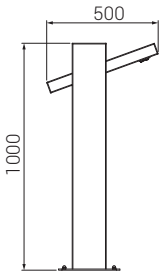
P . W . C . G



Please contact our sales representatives for special application requests other than the standard product.

CromaBollard

Balance Bollard



- Corrosion resistant die-cast aluminium extrusion body or stainless steel body
- Excellent heat dissipation for cooling electronic components
- Impact and heat resistant IP lens group
- Stainless steel screws
- Waterproof and durable silicone gaskets

PW

Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
Bollard-Balance	WW-NW-CW	220-240V AC	9	950	4,0
Bollard-Balance	WW-NW-CW	220-240V AC	18	1900	4,0

Power and Lumen values provided are based off of a "cold white (CW) LED".

C

Light Color Options

WW: Warm White	3000K
NW: Natural White	4000K
CW: Cold White	6500K

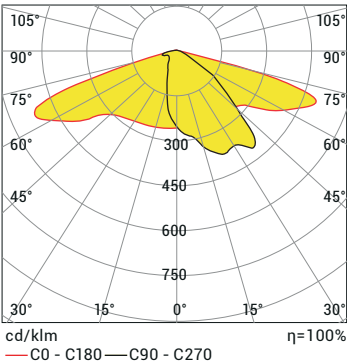
G

Housing Color Options

RAL9005	RAL9016	RAL9007

Product Diagrams

Polar Diagram



BALANCE-BOLLARD NW 18W 220V AC IP66

Accessories



FuseSurge protection device

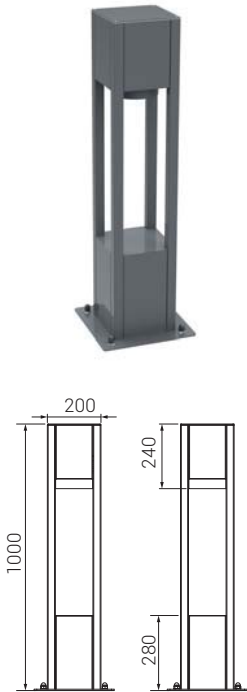


Order Code

P . W . C . G



Please contact our sales representatives for special application requests other than the standard product.



- Corrosion resistant die-cast aluminium extrusion body or stainless steel body
- Excellent heat dissipation for cooling electronic components
- Impact and heat resistant IP lens group
- Stainless steel screws
- Waterproof and durable silicone gaskets
- Electrostatic polyester powder coating with high thermal conductivity

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
Bollard-Tower	WW-NW-CW	220-240V AC	9	850	4,3
Bollard-Tower	WW-NW-CW	220-240V AC	18	1700	4,3

Power and Lumen values provided are based off of a "cold white (CW) LED".

C Light Color Options

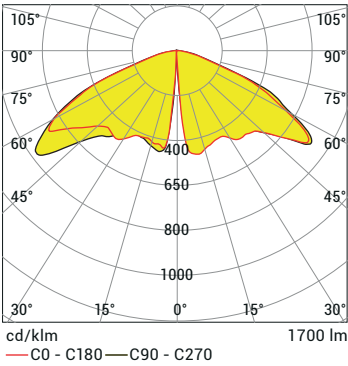
WW: Warm White	3000K
NW: Natural White	4000K
CW: Cold White	6500K

G Housing Color Options



Product Diagrams

Polar Diagram



TOWER-BOLLARD NW 18W 220V AC IP66

Accessories



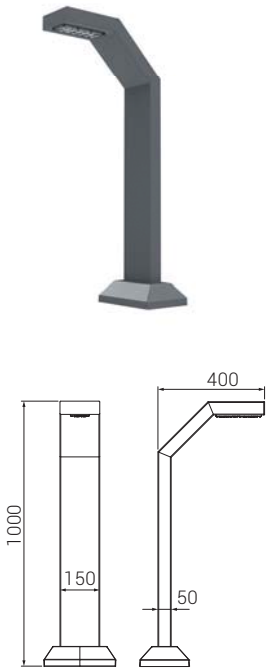
Fuse Surge protection device



Order Code

P . W . C . G





- Corrosion resistant die-cast aluminium extrusion body
- Excellent heat dissipation for cooling electronic components
- Impact and heat resistant IP lens group
- Stainless steel screws
- Waterproof and durable silicone gaskets
- Electrostatic polyester powder coating with high thermal conductivity

P W Product & Power Options

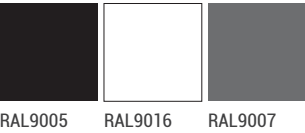
Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
Bollard-Eagle S	WW-NW-CW	220-240V AC	9	950	3,9
Bollard-Eagle S	WW-NW-CW	220-240V AC	18	1900	3,9

Power and Lumen values provided are based off of a "cold white (CW) LED".

C Light Color Options

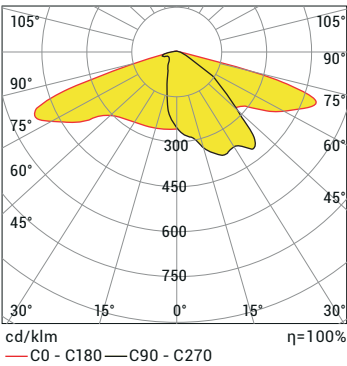
WW: Warm White	3000K
NW: Natural White	4000K
CW: Cold White	6500K

G Housing Color Options



Product Diagrams

Polar Diagram



EAGLE-BOLLARD NW 9W 220V AC IP66

Accessories



Order Code

P . W . C . G



Please contact our sales representatives for special application requests other than the standard product.



HighBay Luminaires

LL

DP

CD

WW

CS

CF

AC

CG

CB

HB

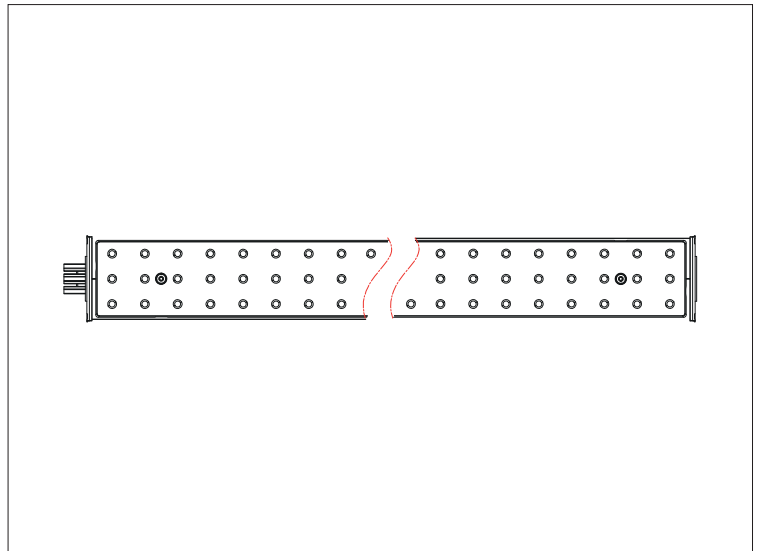
MM

RDMX

LC

FO

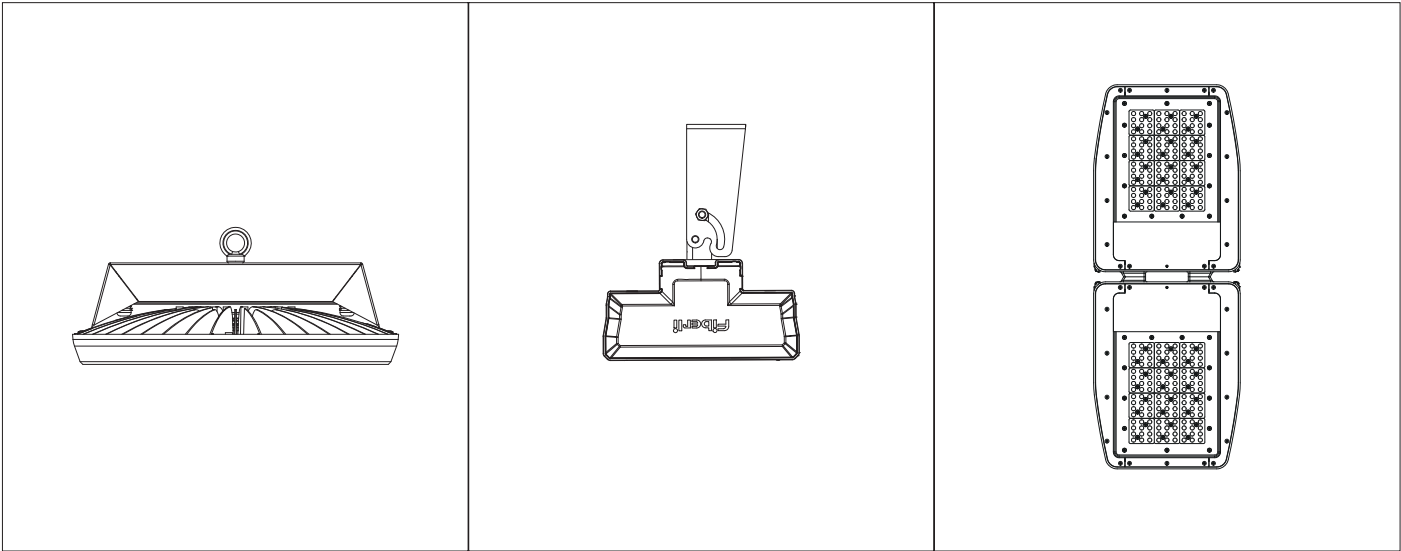
EL



• HighBay

Our highbay product range is ready with designs that perfectly combine technology and efficiency. It provides ideal illumination with tempered glass and reflector / lens options suitable for different ceiling heights. Offers industrial and retail lighting solutions with long-life options that reduce maintenance costs.

HighBay Luminaires

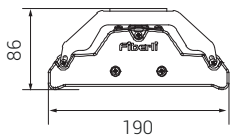
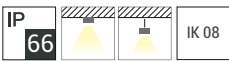


HighBay - HighBay & LowBay Lighting



High Bay LED Luminaire

BERT



- High efficiency optical design (up to 160 lm/W)
- Anodized aluminum extrusion profile body
- Suitable for hygienic environments, dust-free body design
- Aluminum injection side covers
- High efficiency tempered glass
- High efficiency reflector and optional lens
- Optional stainless steel mounting clip
- Optional stainless Busbar mounting bracket

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Dimensions (L) (mm)	Weight (kg)
HBBR80	WW-NW-CW	220-240V AC	70	10.360	815	4,8
HBBR80	WW-NW-CW	220-240V AC	95	14.060	815	4,8
HBBR120	WW-NW-CW	220-240V AC	110	16.280	1215	6,7
HBBR120	WW-NW-CW	220-240V AC	135	20.000	1215	6,7

*Power and Lumen values provided are based off of a "cold white (CW) LED".

C Light Color Options

WW: Warm White	3000K
NW: Natural White	4000K
CW: Cold White	6500K

*Different colors are optional

O Lens Options



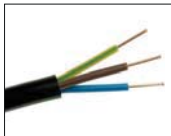
M: Medium Angle

W: Wide Angle

S Driver Options

- 01 Standard Driver
- 06 DALI Driver
- 11 Driver + Emergency Lighting Kit 1h
- 12 Driver + Emergency Lighting Kit 3h

J Junction Options

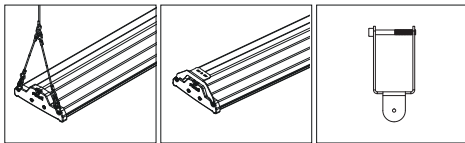


01: Cable



02: IP Socket

M Mounting Options



25: Pendant Mounting

26: Surface Cable Tray Mounting

36: Busbar Hanger

*For 25 option rope not included



Order Code

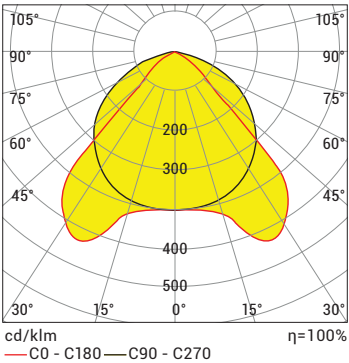
P . W . C . S . O . J . M



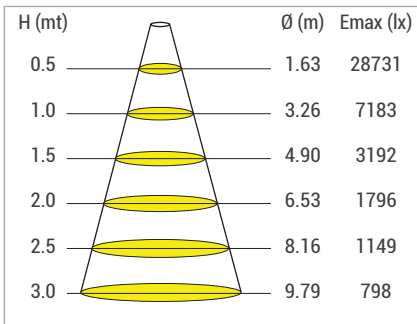
Please contact our sales representatives for special application requests other than the standard product.

Product Diagrams

Polar Diagram



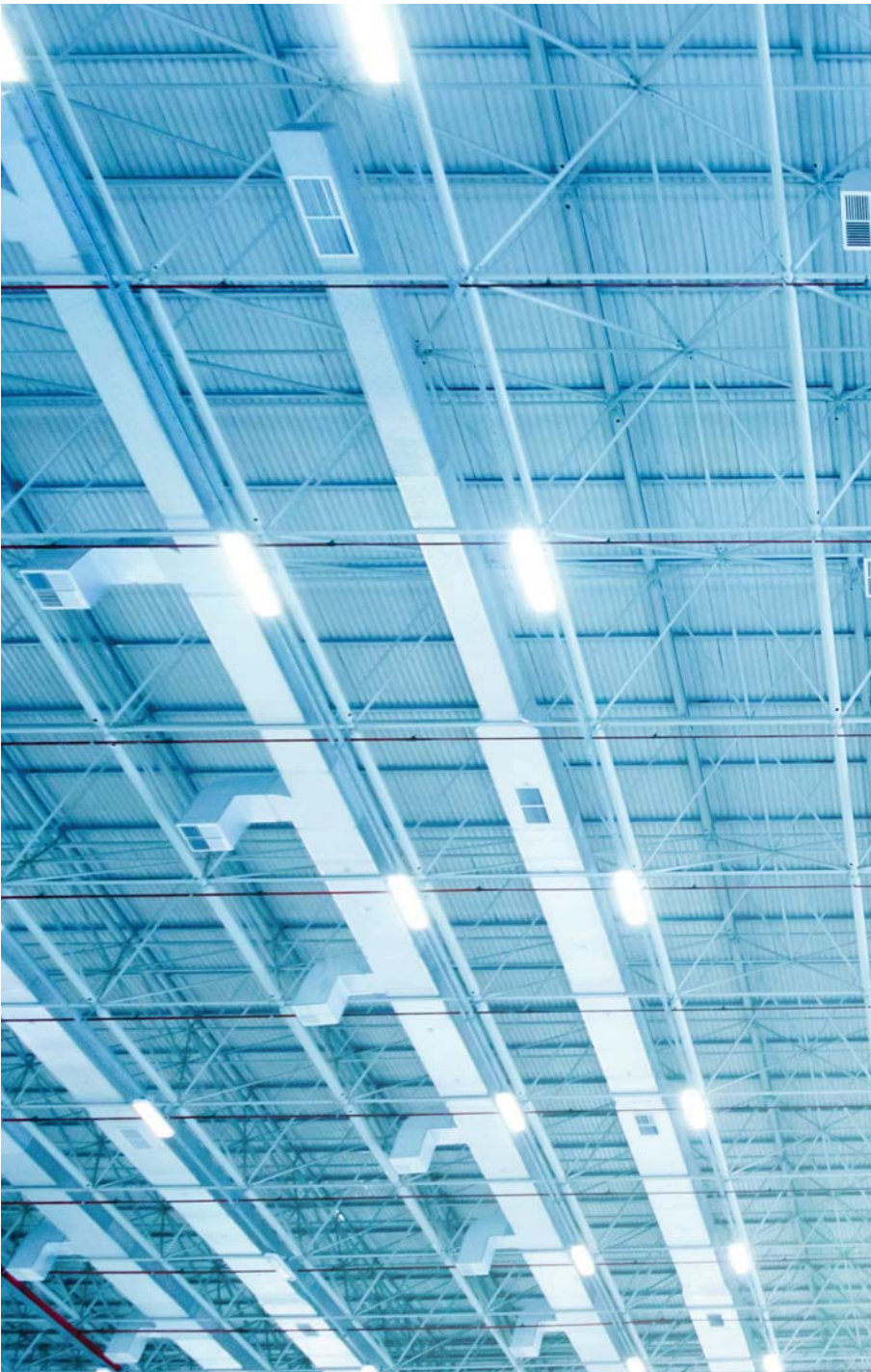
Conical Diagram



HBBR120 CW65 134W 90D 220VAC IP66

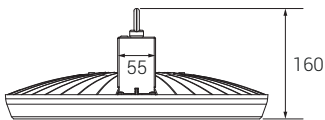
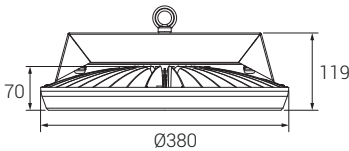
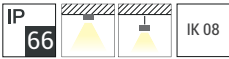
Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW 				☒	☒	
R,G,B,A 						
RGB 						
RGBA/W 						
RGB DMX 						
WHITE DMX 						



High Bay LED Luminaire

AY380 PRO



- Electrostatic painted aluminum injection body
- High efficiency group lens
- Optional stainless steel mounting clip
- Optional stainless Busbar mounting bracket

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
AY380-PRO	WW-NW-CW	220-240V AC	100	16.000	3,6
AY380-PRO	WW-NW-CW	220-240V AC	125	20.000	3,7
AY380-PRO	WW-NW-CW	220-240V AC	150	24.000	3,7
AY380-PRO	WW-NW-CW	220-240V AC	180	27.000	3,9

*Power and Lumen values provided are based off of a "cold white (CW) LED".

C Light Color Options

WW: Warm White	3000K
NW: Natural White	4000K
CW: Cold White	6500K

*Different colors are optional

S Driver Options

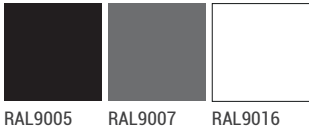
- 01 Standard Driver
- 06 DALI Driver

O Lens Options



M: Medium Angle
W: Wide Angle

G Housing Color Options

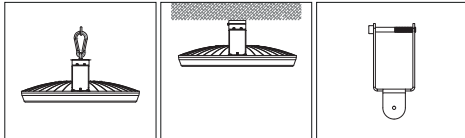


J Junction Options



01: Cable
02: IP67 Socket

M Mounting Options



25: Pendant Mounting
*For 25 option rope not included

26: Surface Cable Tray Mounting

36: Busbar Hanger



Order Code

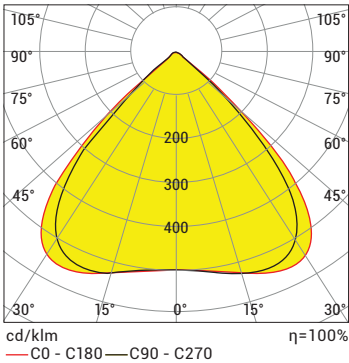
P . W . C . S . O . G . J . M



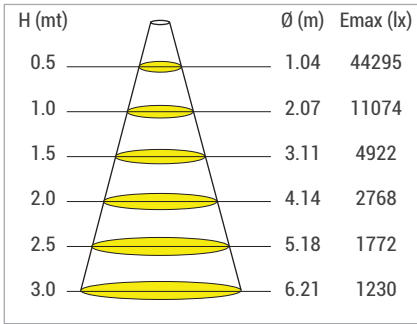
Please contact our sales representatives for special application requests other than the standard product.

Product Diagrams

Polar Diagram



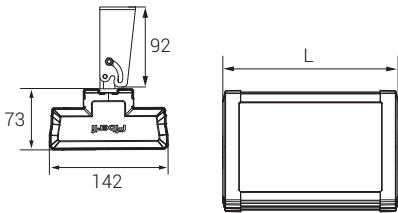
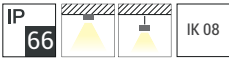
Conical Diagram



AY380 CW50 90D 150W 220VAC IP65

Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW				•	•	
R,G,B,A						
RGB						
RGBA/W						
RGB DMX						
WHITE DMX						



- Electrostatic painted aluminum injection body
- High efficiency group lens
- Optional stainless steel mounting clip
- Optional stainless Busbar mounting bracket

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Dimensions (L) (mm)	Weight (kg)
HBWS-35	WW-NW-CW	220-240V AC	50	7.000	365	2,6
HBWS-50	WW-NW-CW	220-240V AC	75	10.500	515	3,6
HBWS-65	WW-NW-CW	220-240V AC	100	14.000	670	4,6
HBWS-80	WW-NW-CW	220-240V AC	125	17.500	830	5,6
HBWS-100	WW-NW-CW	220-240V AC	150	21.000	975	6,6

*Power and Lumen values provided are based off of a "cold white (CW) LED".

C Light Color Options

WW: Warm White	3000K
NW: Natural White	4000K
CW: Cold White	6500K

*Different colors are optional

S Driver Options

- 01 Standard Driver
- 06 DALI Driver

O Lens Options



M: Medium Angle
W: Wide Angle

G Housing Color Options



RAL9005 RAL9007 RAL9016

J Junction Options



01: Cable 02: IP67 Socket

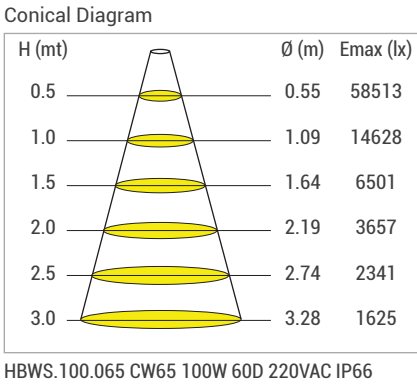
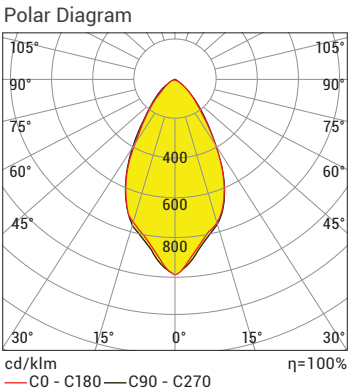


Order Code

P . W . C . S . O . G . J



Product Diagrams



Control System Options

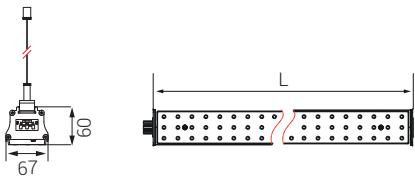
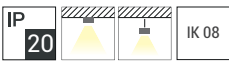
Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW 						
R,G,B,A 						
RGB 						
RGBA/W 						
RGB DMX 						
WHITE DMX 						



Light Rail System Maintenance Workshop, Antalya

High Bay LED Luminaire

HBMH



- Anodized aluminum extrusion profile body
- Modular luminaire structure with high efficiency group lens
- Uninterrupted and rigid lighting with linear insert
- Socket type energy input-output and transfer
- High efficiency group lens
- Optional stainless Busbar mounting bracket
- Standard rope size 150cm

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Dimensions (L) (mm)	Weight (kg)
HBMH90	WW-NW-CW	220-240V AC	40	5.300	870	1,43
HBMH120	WW-NW-CW	220-240V AC	53	7.000	1160	1,95
HBMH150	WW-NW-CW	220-240V AC	66	8.800	1450	2,47
HBMH180	WW-NW-CW	220-240V AC	79	10.500	1730	2,99

*Power and Lumen values provided are based off of a "cold white (CW) LED".

C Light Color Options

WW: Warm White	3000K
NW: Natural White	4000K
CW: Cold White	6500K

*Different colors are optional

S Driver Options

- 01 Standard Driver
- 06 DALI Driver
- 11 Driver + Emergency Lighting Kit 1h
- 12 Driver + Emergency Lighting Kit 3h

O Lens Options



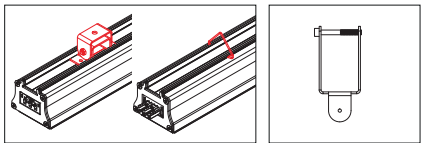
M: Medium Angle W: Wide Angle MA: Elliptical Medium Angle

J Junction Options



01: Cable 02: Socket

M Mounting Options

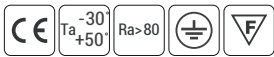


26: Surface/ Cable Tray Mounting 36: Busbar Hanger



Order Code

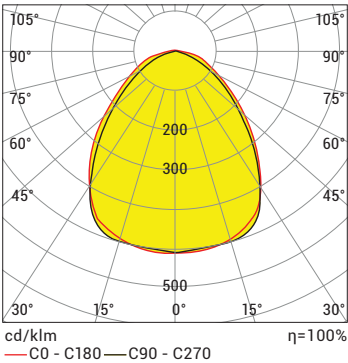
P . W . C . S . O . J . M



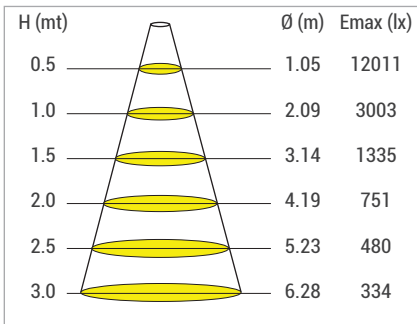
Please contact our sales representatives for special application requests other than the standard product.

Product Diagrams

Polar Diagram



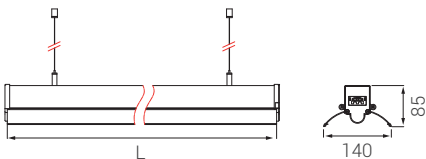
Conical Diagram



HBMH120 NW40 55W 90D 220VAC IP20

Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW				•	•	
R,G,B,A						
RGB						
RGBA/W						
RGB DMX						
WHITE DMX						



- Min. 20 micron anodized aluminum extruded profile
- Stainless connectors
- UV protective PVC side cover
- UV protective, diffused front cover
- Suitable as pendant and surface
- Easy to connect by a socket
- Standard rope size 150cm

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Length (L) (mm)	Weight (kg)
LLMRA120	WW-NW-CW	220-240V AC	34	3.570	120	2,2
LLMRA120	WW-NW-CW	220-240V AC	42	4.410	120	2,2
LLMRA160	WW-NW-CW	220-240V AC	45	4.725	160	2,9
LLMRA160	WW-NW-CW	220-240V AC	64	6.720	160	2,9
LLMRA240	WW-NW-CW	220-240V AC	68	7.140	240	4,3
LLMRA240	WW-NW-CW	220-240V AC	84	8.820	240	4,3
LLMRA320	WW-NW-CW	220-240V AC	90	9.450	320	5,8
LLMRA320	WW-NW-CW	220-240V AC	128	13.440	320	5,8

*Power and Lumen values provided are based off of a "cold white (CW) LED".

C Light Color Options

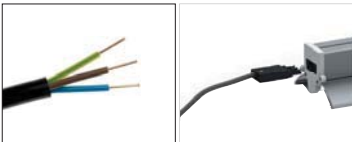
● WW: Warm White	3000K
● NW: Natural White	4000K
● CW: Cold White	6500K

*Different colors are optional

S Driver Options

- 01 Standard Driver
- 06 DALI Driver
- 11 Driver + Emergency Lighting Kit 1h
- 12 Driver + Emergency Lighting Kit 3h

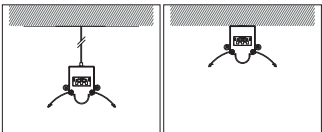
J Junction Options



01: Cable

05: Socket

M Montaj Seçenekleri



25: Pendant

26: Surface



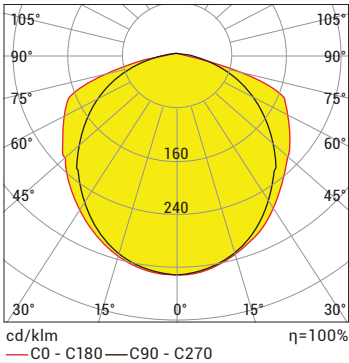
Order Code

P . W . C . S . J . M

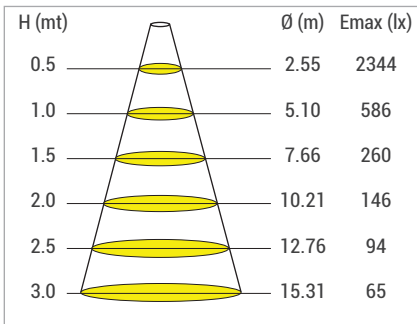


Product Diagrams

Polar Diagram



Conical Diagram



LMRA80 90 LED CW 120D 34W 220V AC IP44

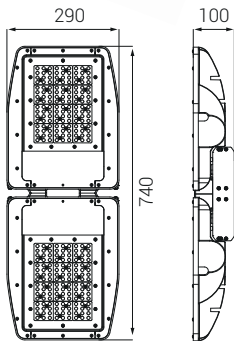
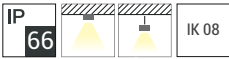
Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW				•	•	
R,G,B,A				•	•	
RGB						
RGBA/W						
RGB DMX						
WHITE DMX						



High Bay LED Luminaire

WH TWIN



- Electrostatic powder coated aluminum injection housing
- High cooling capacity body design
- 4mm tempered luminaire glass
- Aluminum injection side covers
- Stainless fittings and clips
- Electrostatic painted DKP / Galvanized mounting feet

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
HBTW100	WW-NW-CW	220-240V AC	100	12.500	18,8
HBTW100	WW-NW-CW	220-240V AC	150	18.750	19,0
HBTW100	WW-NW-CW	220-240V AC	170	21.250	19,0
HBTW100	WW-NW-CW	220-240V AC	200	25.000	19,0
HBTW100	WW-NW-CW	220-240V AC	220	27.500	19,0
HBTW100	WW-NW-CW	220-240V AC	300	37.500	19,2

*Power and Lumen values provided are based off of a "cold white (CW) LED".

C Light Color Options

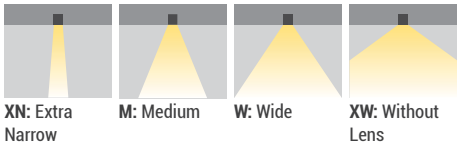
WW: Warm White	3000K
NW: Natural White	4000K
CW: Cold White	6500K

*Different colors are optional

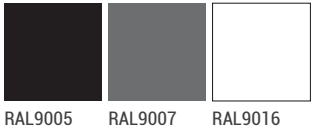
S Driver Options

- 01 Standard Driver
- 06 DALI Driver

O Lens Options



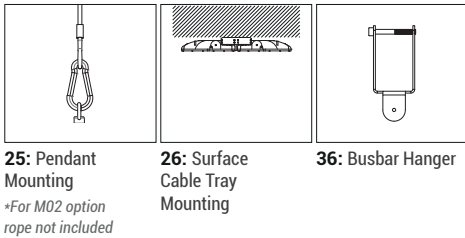
G Housing Color Options



J Junction Options



M Mounting Options



Order Code

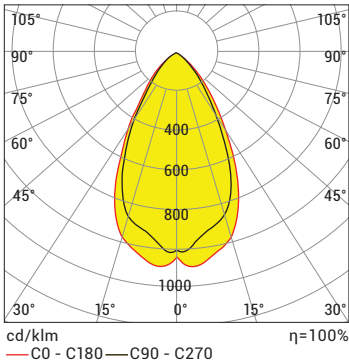
P . W . C . S . O . G . J . M



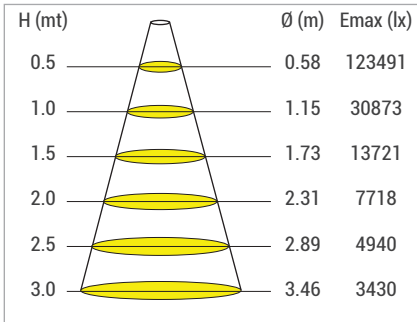
Please contact our sales representatives for special application requests other than the standard product.

Product Diagrams

Polar Diagram



Conical Diagram



HBTW NW40 300W 60D 220VAC IP66

Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW				•	•	
R,G,B,A						
RGB						
RGBA/W						
RGB DMX						
WHITE DMX						





LL

DP

CD

WW

CS

CF

AC

CG

CB

HB

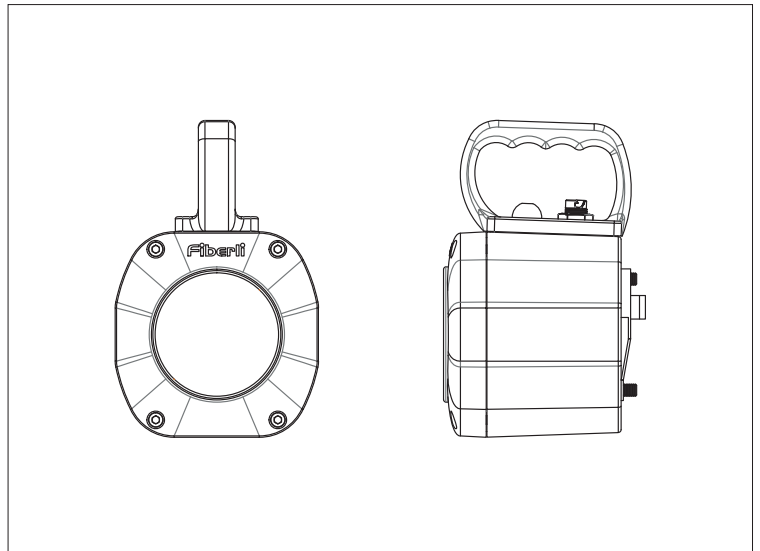
MM

RDMX

LC

FO

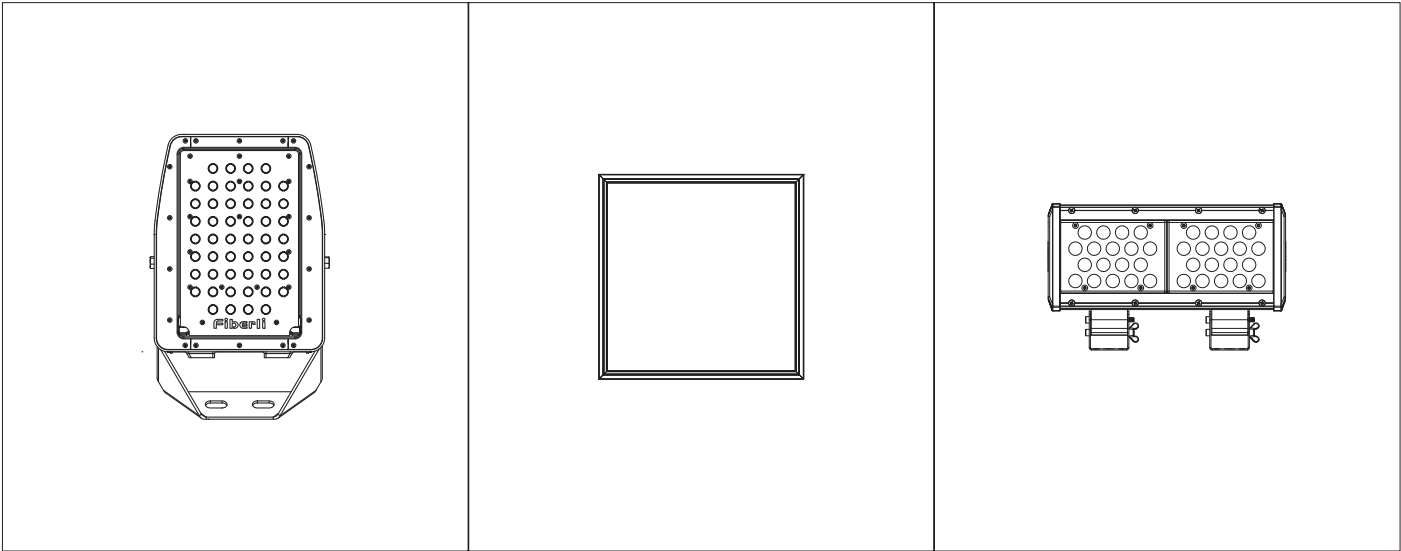
EL



• Military Marine

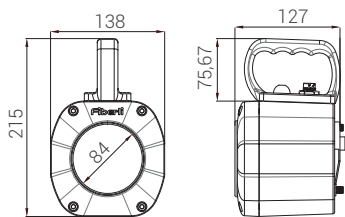
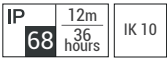
Our marine group offers solutions with a wide range of products designed according to the special needs of ship, yacht and marina areas. We can fully respond to your projects with our fixed general lighting products and rechargeable portable luminaires. Our products are entitled to receive Turk Lloyd certificate after their tests under special conditions. Our special concept products produced according to military standards in line with the demands of the defense industry also offer innovative solutions.

Military Marine



Military Marine - Marine & Military Lighting





- IK10 resistance with 10mm polycarbonate glass
- High quality compressed halogen free plastic injection body
- Safe assembly and disassembly with IP68 socket chargers
- Stainless steel connection parts
- Can be used fixed and portable
- Operates at 100-240V AC 50-60Hz
- Battery: 3.6 V, 4000 mAh Ni-MH
- 24-hour battery charge time
- Can operate under water for 10 hours at a depth of 10 meters
- Flashlight mode has 3 different working modes as minimum, maximum light output and SOS signal
- Flashlight mode has a working time of 20 hours in minimum and SOS functions and 8 hours in maximum function
- In modernization works, welding process is not required for mounting the hanger part to the wing
- Body color RAL 1028

STANDARD COMPLIANCE

- Luminaire has been tested according to IEC 60092-306 and EN 60598-1 standards
- Luminaire has been tested according to EN 55015 and EN 61547 standards
- Complies with MIL-STD-461 F Military standards

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
MM111A	WW-NW-CW	100-240V AC	5	254	1,8

*For the min and max functions of flashlight mode

C Light Color Options

WW: Warm White	3000K
NW: Natural White	4000K
CW: Cold White	6500K

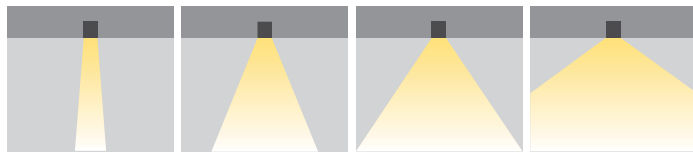
*Different colors are optional

System Options

20: min.20 hours

36: min.36 hours

O Lens Seçenekleri



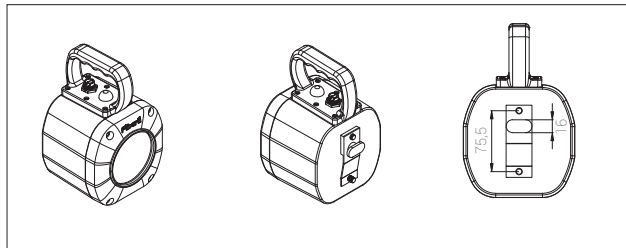
XN: Extra Narrow Angle

M: Medium Angle

W: Wide Angle

XW: Without lens

Mounting



200cm IP68 Charging Cable



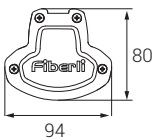
Order Code

P . W . C . O



Please contact our sales representatives for special application requests other than the standard product.





- Min. 20 micron anodized aluminum extruded profile
- Stainless connectors
- PVC side cover with UV protection
- Transparent or diffused polycarbonate top cover with UV protection
- Suitable for surface mounting

STANDARD COMPLIANCE

- Luminaire has been tested according to IEC 60092-306 and EN 60598-1 standards
- Luminaire has been tested according to EN 55015 and EN 61547 standards
- Complies with MIL-STD-461 F Military standards

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Length (mm)	Weight (kg)
LLET30-M	WW-NW-CW	100V-240 AC	12	1.100	300	0,9
LLET60-M	WW-NW-CW	100V-240 AC	15	1.650	600	1,5
LLET60-M	WW-NW-CW	100V-240 AC	22	2.420	600	1,5
LLET120-M	WW-NW-CW	100V-240 AC	29	3.200	1200	2,8
LLET120-M	WW-NW-CW	100V-240 AC	42	4.620	1200	2,8
LLET160-M	WW-NW-CW	100V-240 AC	55	6.380	1600	3,8
LLET160-M	WW-NW-CW	100V-240 AC	85	9.570	1600	3,8

*Power and Lumen values provided are based off of a "cold white (CW) LED".

C Light Color Options

WW: Warm White	3000K
NW: Natural White	4000K
CW: Cold White	6500K

*Different colors are optional

S Driver Options

- 01 Standard Driver
- 06 DALI Driver
- 11 Driver + Emergency Lighting Kit 1h
- 12 Driver + Emergency Lighting Kit 3h
- 16 Radar Sensor

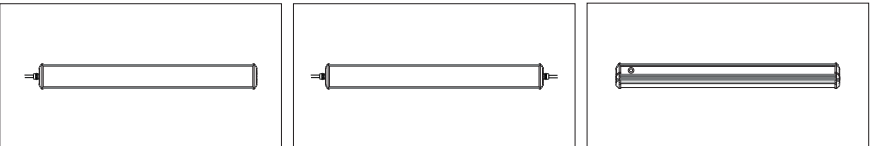
J Junction Options



01: Cable

02: IP Socket

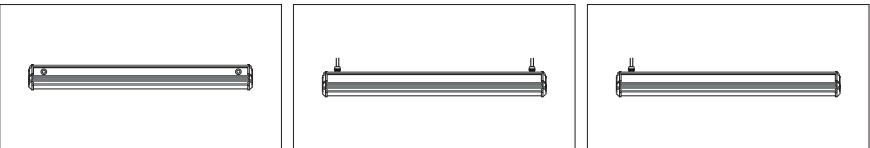
K Cable Direction Options



01: Single Entry

03: Dual end exit and entry

07: Front end entry



12: Dual front end exit and entry

02**: Dual bottom front end exit and entry

04**: Single bottom end exit and entry

**Only for pendant models.



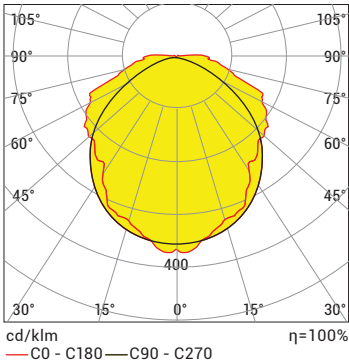
Order Code

P . W . C . S . J . K . U . M

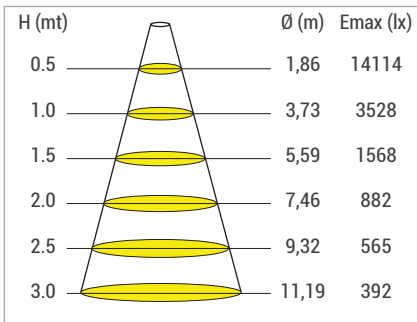


Product Diagrams

Polar Diagram



Conical Diagram



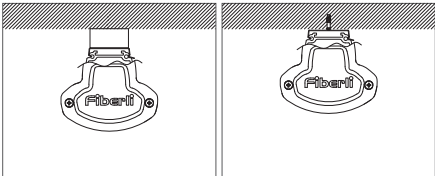
LLET 160 CW 120D 85W 220V AC IP66 TRA. COVER

U Upper Cover Options



01: Diffused 02: Transparent

M Mounting Options

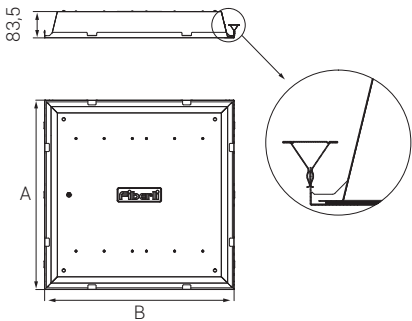


25: Pendant mount 26: Surface mount

Control System Options

	Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW					•	•	
R,G,B,A					•	•	
RGB							
RGBA/W							
RGB DMX							
WHITE DMX							





- Electrostatic painted steel body
- Electrostatic painted steel frame
- High efficiency low-glare (UGR <19) homogeneous light diffuser
- Efficiency exceeding 100lm/W with backlight technology
- Suitable for recessed use (Clip In)
- Operates at 50/60Hz

STANDARD COMPLIANCE

- Luminaire has been tested according to IEC 60092-306 and EN 60598-1 standards
- Luminaire has been tested according to EN 55015 and EN 61547 standards
- Complies with MIL-STD-461 F Military standards



Order Code

P W C S

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Dimensions (AxB) (mm)	Weight (kg)
PNLCLIPIN-3030-M	WW-NW-CW	100-240V AC	15	1.353	300x300	1,1
PNLCLIPIN-6060-M	WW-NW-CW	100-240V AC	26	3.507	600x600	3,2
PNLCLIPIN-6060-M	WW-NW-CW	100-240V AC	34	4.175	600x600	3,2
PNLCLIPIN-6060-M	WW-NW-CW	100-240V AC	38	4.843	600x600	3,2

*Power and Lumen values provided are based off of a cold white (CW) LED.

C Light Color Options

WW: Warm White	3000K
NW: Natural White	4000K
CW: Cold White	6500K

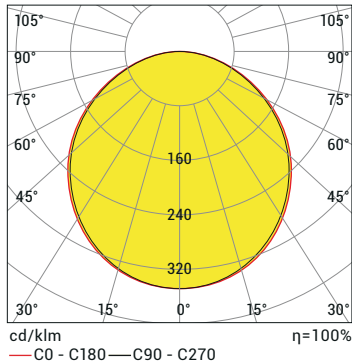
*Different colors are optional

S Driver Options

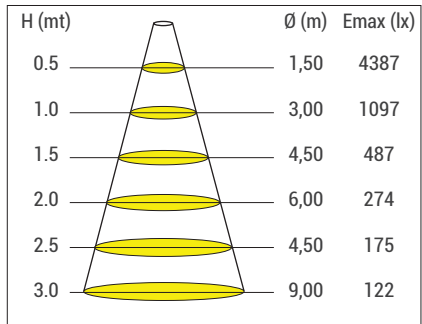
- 01 Standard Driver
- 06 DALI Driver
- 11 Driver + Emergency Lighting Kit 1h
- 12 Driver + Emergency Lighting Kit 3h

Product Diagrams

Polar Diagram



Conical Diagram

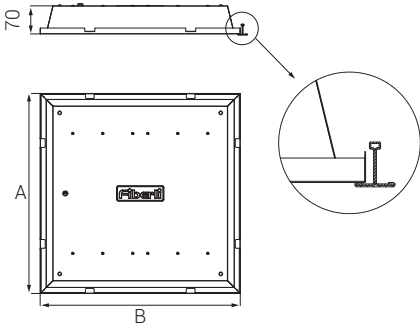
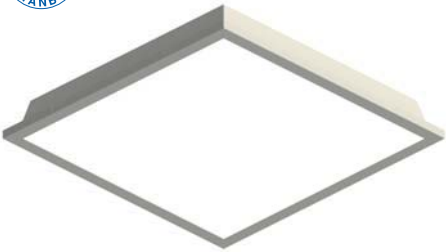


PANEL CLIP IN 60x60 CW 120D 30W 220V AC IP40

Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW				•	•	•
R,G,B,A						
RGB						
RGBA/W						
RGB DMX						
WHITE DMX						





- Electrostatic painted steel body
- Electrostatic painted steel frame
- High efficiency low-glare (UGR <19) homogeneous light diffuser
- Efficiency exceeding 100lm/W with backlight technology
- Suitable for recessed use (Clip In)
- Operates at 50/60Hz

STANDARD COMPLIANCE

- Luminaire has been tested according to IEC 60092-306 and EN 60598-1 standards
- Luminaire has been tested according to EN 55015 and EN 61547 standards
- Complies with MIL-STD-461 F Military standards



Order Code

P . W . C . S

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Dimensions (AxB) (mm)	Weight (kg)
PNLLAYON-3030-M	WW-NW-CW	100-240V AC	15	1.353	300x300	1,1
PNLLAYON-3060-M	WW-NW-CW	100-240V AC	22	2.300	300x600	2,0
PNLLAYON-6060-M	WW-NW-CW	100-240V AC	26	3.507	600x600	3,2
PNLLAYON-6060-M	WW-NW-CW	100-240V AC	34	4.175	600x600	3,2
PNLLAYON-6060-M	WW-NW-CW	100-240V AC	38	4.843	600x600	3,2
PNLLAYON-30120-M	WW-NW-CW	100-240V AC	38	4.446	300x1200	3,3

*Power and Lumen values provided are based off of a cold white (CW) LED.

C Light Color Options

WW: Warm White	3000K
NW: Natural White	4000K
CW: Cold White	6500K

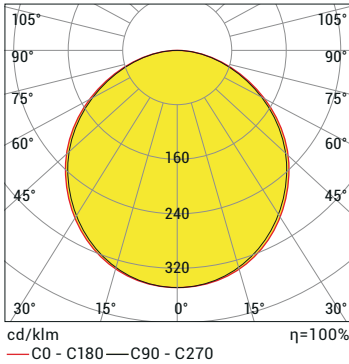
*Different colors are optional

S Driver Options

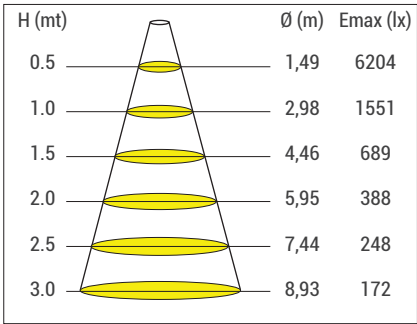
- 01 Standard Driver
- 06 DALI Driver
- 11 Driver + Emergency Lighting Kit 1h
- 12 Driver + Emergency Lighting Kit 3h

Product Diagrams

Polar Diagram



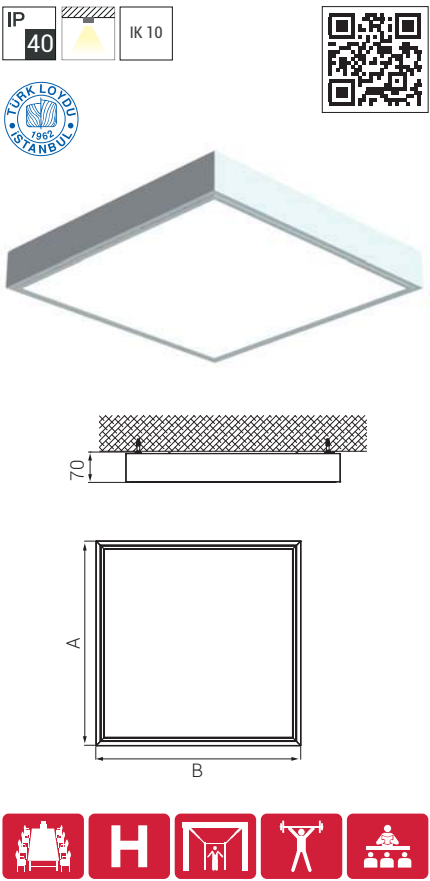
Conical Diagram



PANEL LAY ON 60x60 CW 120D 43W 220V AC IP40

Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW				•	•	•
R,G,B,A						
RGB						
RGBA/W						
RGB DMX						
WHITE DMX						



- Electrostatic painted steel body
- Electrostatic painted aluminium frame
- High efficiency low-glare (UGR <19) homogeneous light diffuser
- Efficiency exceeding 100lm/W with backlight technology
- Suitable for surface mount
- Operates at 50/60Hz

STANDARD COMPLIANCE

- Luminaire has been tested according to IEC 60092-306 and EN 60598-1 standards
- Luminaire has been tested according to EN 55015 and EN 61547 standards
- Complies with MIL-STD-461 F Military standards

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Dimensions (AxB) (mm)	Weight (kg)
PNLSURFACE-3030-M	WW-NW-CW	100-240V AC	15	1.014	300x300	1,3
PNLSURFACE-3060-M	WW-NW-CW	100-240V AC	22	1.978	300x600	2,4
PNLSURFACE-6060-M	WW-NW-CW	100-240V AC	30	3.160	600x600	4,0
PNLSURFACE-6060-M	WW-NW-CW	100-240V AC	34	4.175	600x600	4,0
PNLSURFACE-6060-M	WW-NW-CW	100-240V AC	42	4.236	600x600	4,0
PNLSURFACE-30120-M	WW-NW-CW	100-240V AC	42	4.450	300x1200	4,2
PNLSURFACE-60120-M	WW-NW-CW	100-240V AC	86	8.780	600x1200	7,5

*Power and Lumen values provided are based off of a cold white (CW) LED.

C Light Color Options

● WW: Warm White	3000K
● NW: Natural White	4000K
● CW: Cold White	6500K

*Different colors are optional

S Driver Options

- 01 Standard Driver
- 06 DALI Driver
- 11 Driver + Emergency Lighting Kit 1h
- 12 Driver + Emergency Lighting Kit 3h

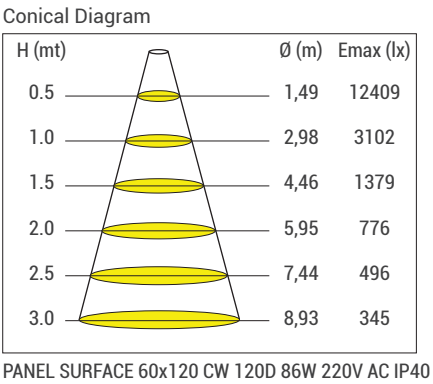
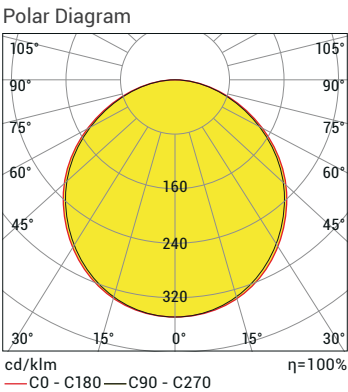


Order Code

P . W . C . S



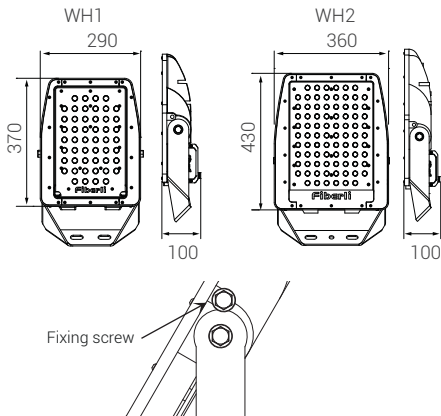
Product Diagrams



Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW				•	•	•
R,G,B,A						
RGB						
RGBA/W						
RGB DMX						
WHITE DMX						





- Electrostatic powder coated, aluminum injection housing and DKP metal sheet stand
- 3 mm Polycarbonate or tempered luminaire glass
- Aluminum injection end caps
- Stainless connectors

STANDARD COMPLIANCE

- Luminaire has been tested according to IEC 60092-306 and EN 60598-1 standards
- Luminaire has been tested according to EN 55015 and EN 61547 standards
- Complies with MIL-STD-461 F Military standards

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
WH136-M	WW-NW-CW	100-240V AC	42	5.200	7,5
WH136-M	WW-NW-CW	100-240V AC	65	7.600	7,7
WH148-M	WW-NW-CW	100-240V AC	85	9.950	7,7
WH148-M	WW-NW-CW	100-240V AC	120	14.500	7,9
WH154-M	WW-NW-CW	100-240V AC	130	16.200	7,9
WH260-M	WW-NW-CW	100-240V AC	150	18.000	10,3
WH284-M	WW-NW-CW	100-240V AC	210	25.500	10,7

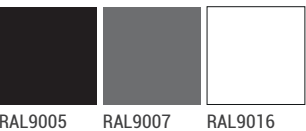
*Power and Lumen values provided are based off of a "cold white (CW) LED".

C Light Color Options

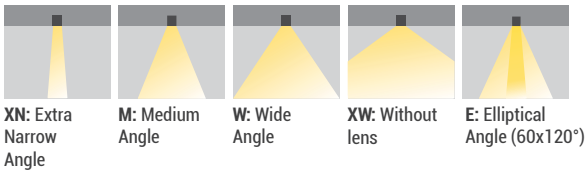
WW: Warm White	3000K	R: Red	625nm
NW: Natural White	4000K	G: Green	525nm
CW: Cold White	6500K	B: Blue	465nm
		A: Amber	590nm

*Different colors are optional

G Housing Color Options



O Lens Options



J Junction Options



M Mounting Options

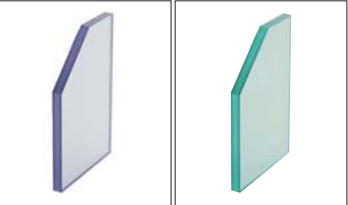
Stand connector



20: Standard Stand 21: Direct mounting kit (optional)

Extension pieces at any desired length are optional

U Upper Piece Options



03: Polycarbonate glass 04: Tempered glass



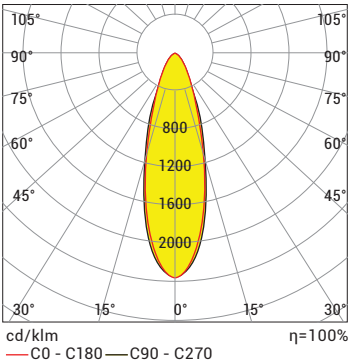
Order Code

P . W . C . G . O . J . M . U

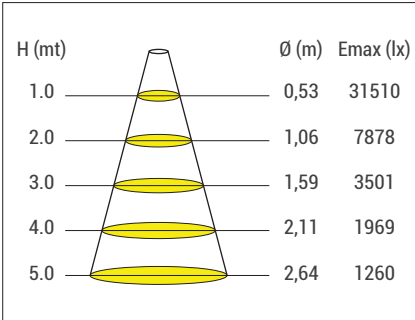


Product Diagrams

Polar Diagram

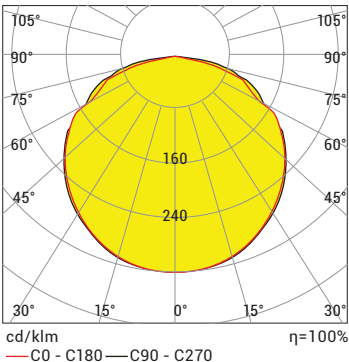


Conical Diagram

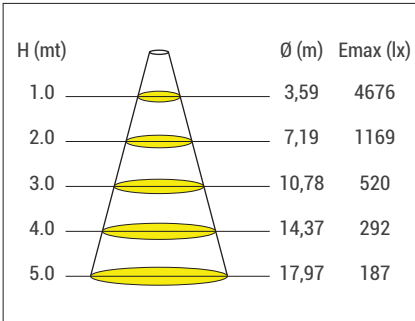


WH154 CW 25D 135W 220V AC IP66

Polar Diagram



Conical Diagram

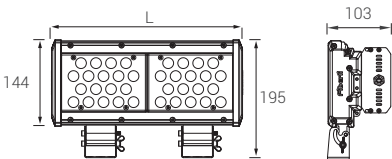


WH154 CW 120D 135W 220V AC

Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW 	☒	☐	☐	☒	☒	☐
R,G,B,A 	☒	☐	☐	☒	☒	☐
RGB 	☐	☐	☐	☐	☐	☐
RGBA/W 	☐	☐	☐	☐	☐	☐
RGB DMX 	☐	☐	☐	☐	☐	☐
WHITE DMX 	☐	☐	☐	☐	☐	☐





- Min. 20 micron anodized aluminum extruded profile
- Stainless chrome fixture stand
- Polycarbonate luminaire glass
- Electrostatic powder coated, aluminum injection end cap
- High efficiency group lens

STANDARD COMPLIANCE

- Luminaire has been tested according to IEC 60092-306 and EN 60598-1 standards
- Luminaire has been tested according to EN 55015 and EN 61547 standards

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Length (L) (mm)	Weight (kg)
WS118-M	WW-NW-CW	100-240V AC	22	2.399	170	1,8
WS236-M	WW-NW-CW	100-240V AC	42	4.894	320	2,9
WS354-M	WW-NW-CW	100-240V AC	62	8.155	480	4,3
WS336-M	WW-NW-CW	100-240V AC	90	8.642	480	4,3
WS472-M	WW-NW-CW	100-240V AC	85	11.145	610	5,3

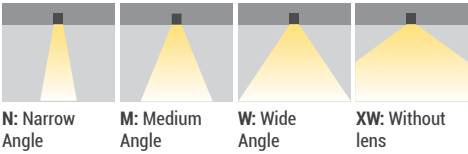
*Power and Lumen values provided are based off of a "cold white (CW) LED".

C Light Color Options

● WW: Warm White	3000K	● R: Red	625nm
● NW: Natural White	4000K	● G: Green	525nm
● CW: Cold White	6500K	● B: Blue	465nm
		● A: Amber	590nm

*Different colors are optional

O Lens Options



J Junction Options



01: Cable

02: IP67 Socket



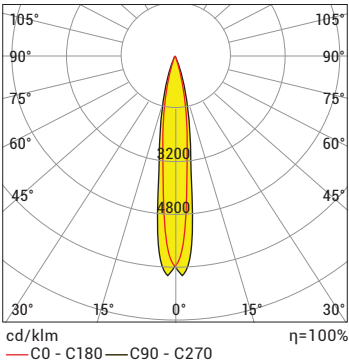
Order Code

P . W . C . O . J . M

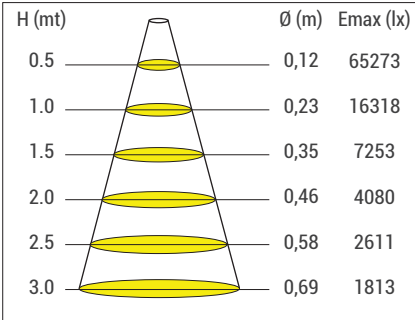


Product Diagrams

Polar Diagram

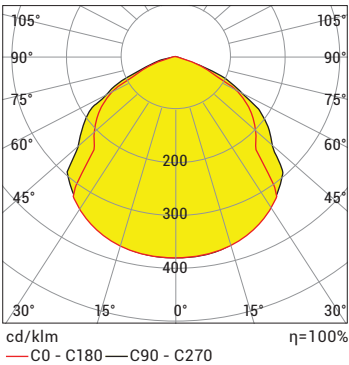


Conical Diagram

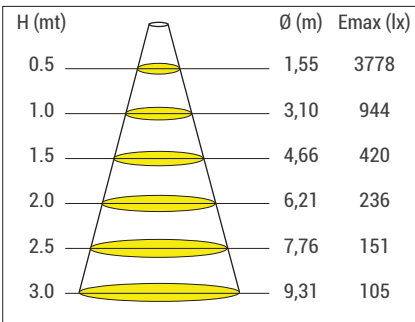


WS118 CW 10D 22W 220V AC IP66

Polar Diagram



Conical Diagram



WS118 CW 120D 22W 220V AC IP66

M Mounting Options

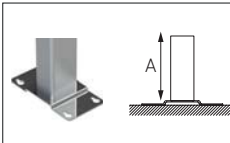


20: Standard Stand



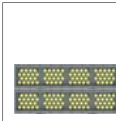
21: Standard stand/
Mounting kit

Optional Accessories



34: Extension piece A=5cm
35: Extension piece A=10cm
36: Extension piece A=20cm
Extension pieces at any desired length
are optional

Additional Pieces Options



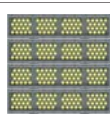
Dual Assembly



Triple Assembly



Quaterd Assembly



Control System Options

	Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW					•	•	
R,G,B,A					•	•	
RGB							
RGBA/W							
RGB DMX							
WHITE DMX							





RDM/DMX & Animation Lighting

LL

DP

CD

WW

CS

CF

AC

CG

CB

HB

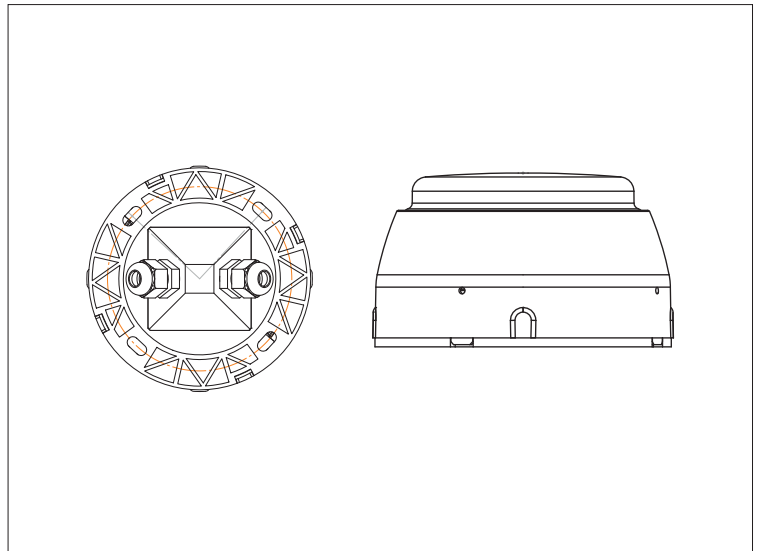
MM

RDMX

LC

FO

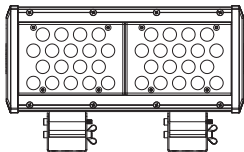
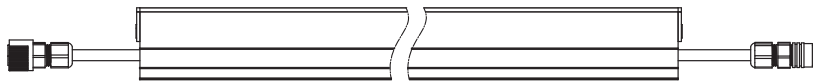
EL



• RDMX

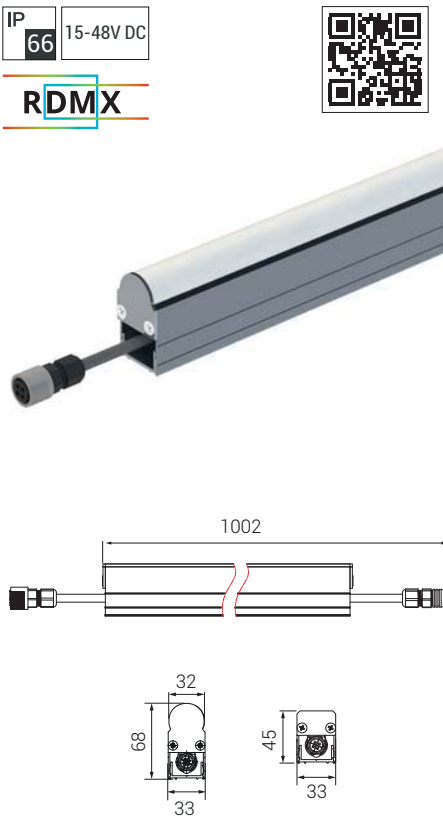
Fiberli, one of the leading manufacturers of facade lighting, offers a wide product range with its new category with RDM protocol. In addition to the linear or facade lighting solutions such as hotels, business centers, malls, it also develops the animation lighting category with recessed fixtures. The RDM protocol, which provides data transfer from the device to the system, can record the operating statistics and malfunction data of the products in the field. Fast color transition brings a new dimension to lighting design with impressive RGB color applications on the facades

RDM/DMX & Animation Lighting



RDMX - RDM/DMX & Animation Lighting





- Min. 20 micron anodized aluminum extruded profile
- Stainless connectors
- PVC side cover with UV protection
- UV protective, diffused front cover
- Cooling capacity up to 36W/m
- Suitable for surface mounting
- Each piece can be produced at a max. length of 4 m
- RDMX configuration
- IP67 socket fot DATA-SIGNALS

PW

Product & Power Options

Model	Light Color	Input Voltage (V)	Power (W)	Dimension (mm)	LED Quantity (pcs)	Pixel Pitch (cm)
LL-RDMX-10-4X2,5	RGB	15-48V DC	2	102	4	4x2,5
LL-RDMX-50-4X2,5	RGB	15-48V DC	6	502	20	4x2,5
LL-RDMX-100-4X2,5	RGB	15-48V DC	11	1002	40	4x2,5
LL-RDMX-150-4X2,5	RGB	15-48V DC	16	1502	60	4x2,5

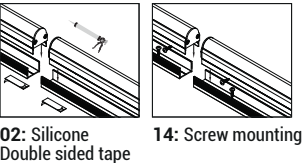
U

Upper Piece Options



M

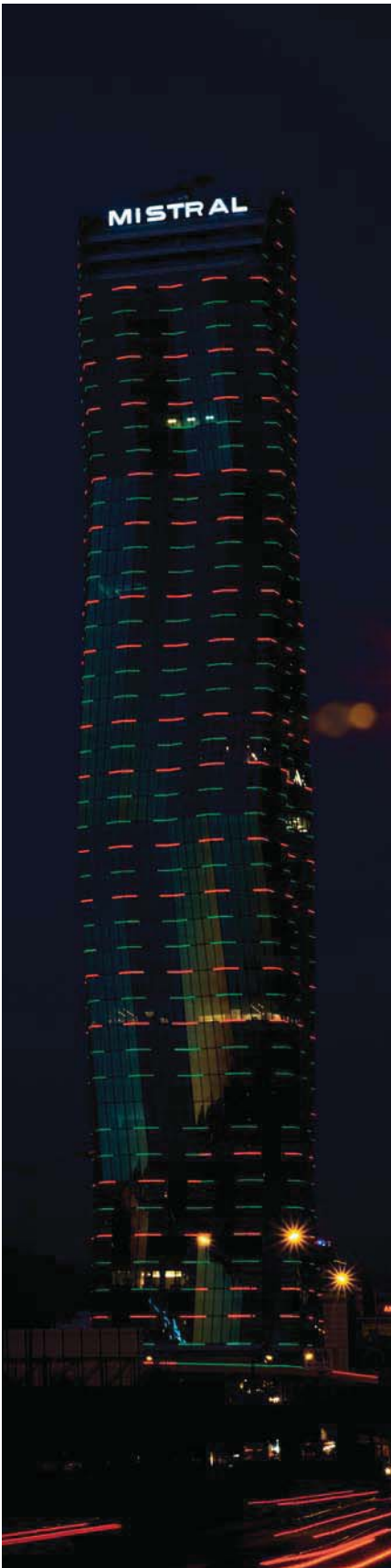
Mounting Options



Order Code

P . W . U . M





Mistral Tower, İzmir

Standard Connection Scheme

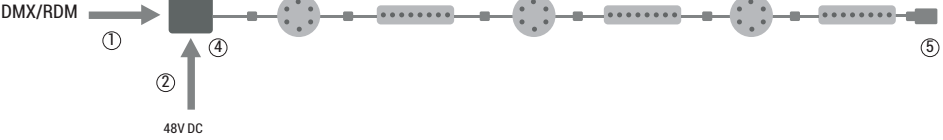


Connection Scheme with Extension Socket



Combined Model Connection Scheme

DOT-RDMX-xx and LL-RDMX-xxx can be grouped together by DOT/LL combined chain model



- (1) DMX DATA CABLE, 33400474 : CABLE 2X0,22 KR-SY LI2Y(ST)CH TP GREY
- (2) AC SUPPLY CABLE, 3x1mm TTR
- (3) 26000xxx : SOCKET RDMX L:100/200/400/600/800/1000cm 4 PIN MALE-FEMALE DOUBLE SIDED EXTENSION IP67 (YM)



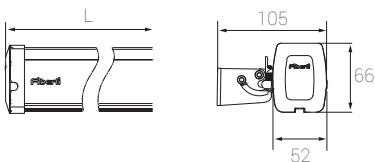
(4) 33600695 :RDMX INPUT JUNCTION BOX



(5) 33600696 : RDMX TERMINATOR

Accessories

- 33400474 : CABLE 2X0,22 KR-SY LI2Y(ST)CH TP GREY
- 26000122 : SOCKET RDMX L:100cm 4 PIN MALE-FEMALE DOUBLE SIDED EXTENSION IP67 (YM)
- 26000150 : SOCKET RDMX L:200cm 4 PIN MALE-FEMALE DOUBLE SIDED EXTENSION IP67 (YM)
- 26000151 : SOCKET RDMX L:400cm 4 PIN MALE-FEMALE DOUBLE SIDED EXTENSION IP67 (YM)
- 26000152 : SOCKET RDMX L:600cm 4 PIN MALE-FEMALE DOUBLE SIDED EXTENSION IP67 (YM)
- 26000153 : SOCKET RDMX L:800cm 4 PIN MALE-FEMALE DOUBLE SIDED EXTENSION IP67 (YM)
- 26000154 : SOCKET RDMX L:1000cm 4 PIN MALE-FEMALE DOUBLE SIDED EXTENSION

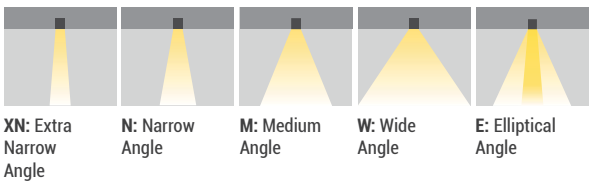


- Anodized aluminum extruded profile
- Polycarbonate luminaire glass
- PVC side covers with invisible gland outlet and UV protection
- Stainless steel fixture stand
- High efficiency group lens
- IP68 air vent
- RDMX configuration
- IP67 socket fot DATA-SIGNALS

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Length (L) (mm)	Weight (kg)
WL109-RDMX	RGB	220-240V AC	12	380	1,0
WL218-RDMX	RGB	220-240V AC	23	619	1,5
WL327-RDMX	RGB	220-240V AC	34	909	2,4
WL436-RDMX	RGB	220-240V AC	45	1199	2,9
WL112-RDMX	RGBW/A	220-240V AC	16	380	1,0
WL224-RDMX	RGBW/A	220-240V AC	31	619	1,5
WL336-RDMX	RGBW/A	220-240V AC	45	909	2,4
WL448-RDMX	RGBW/A	220-240V AC	60	1199	2,9

O Lens Options



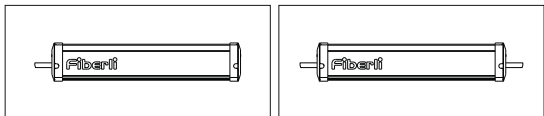
J Junction Options



01: Cable 02: IP67 Socket

Only 220V

K Cable Direction Options

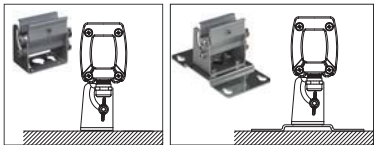


01: Single entry 03: Dual entry and exit *

*Only for energy cable

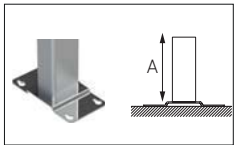
M Mounting Options

Stand connector



20: Standard Stand 21: Standard stand/
Mounting kit

Optional Accessories



34: Extension piece A=5cm
35: Extension piece A=10cm
36: Extension piece A=20cm
Extension pieces at any desired length
are optional

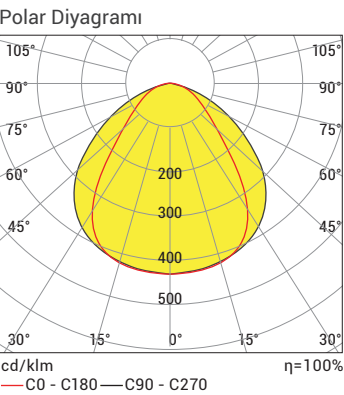
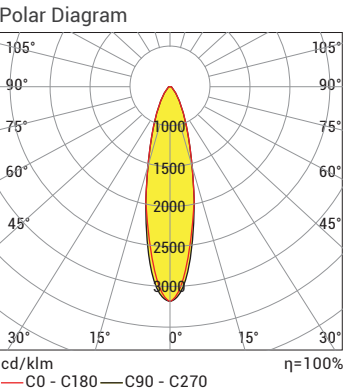


Order Code

P . W . O . J . K . M



Product Diagrams



Connecting fittings



Additional Pieces Options



Dual assembly



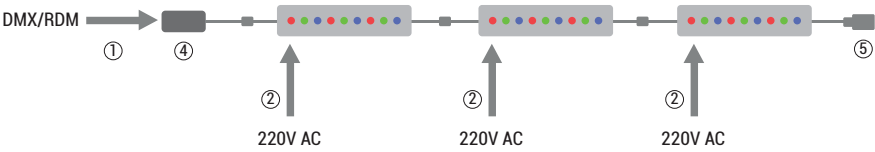
Ternary assembly



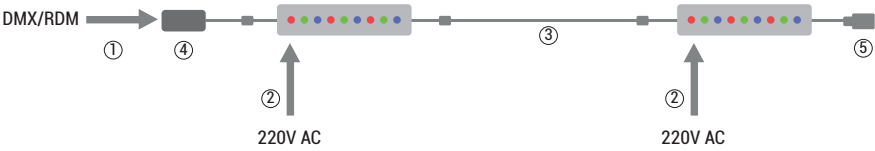
Quaternary assembly



Standard Connection Scheme



Connection Scheme with Extension Socket



- (1) DMX DATA CABLE, 33400474 : CABLE 2X0,22 KR-SY LI2Y(ST)CH TP GREY
- (2) AC SUPPLY CABLE, 3x1mm TTR
- (3) 26000xxx : SOCKET RDMX L:100/200/400/600/800/1000cm 4 PIN MALE-FEMALE DOUBLE SIDED EXTENSION IP67 (YM)



(4) 33600755: RDMX INPUT JOINT



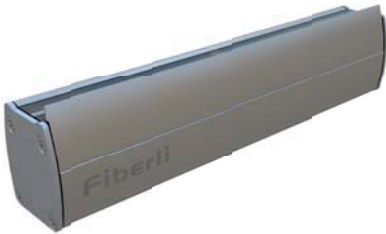
(5) 33600696 : RDMX TERMINATOR

Accessories

- 33400474 : CABLE 2X0,22 KR-SY LI2Y(ST)CH TP GREY
- 26000122 : SOCKET RDMX L:100cm 4 PIN MALE-FEMALE DOUBLE SIDED EXTENSION IP67 (YM)
- 26000150 : SOCKET RDMX L:200cm 4 PIN MALE-FEMALE DOUBLE SIDED EXTENSION IP67 (YM)
- 26000151 : SOCKET RDMX L:400cm 4 PIN MALE-FEMALE DOUBLE SIDED EXTENSION IP67 (YM)
- 26000152 : SOCKET RDMX L:600cm 4 PIN MALE-FEMALE DOUBLE SIDED EXTENSION IP67 (YM)
- 26000153 : SOCKET RDMX L:800cm 4 PIN MALE-FEMALE DOUBLE SIDED EXTENSION IP67 (YM)
- 26000154 : SOCKET RDMX L:1000cm 4 PIN MALE-FEMALE DOUBLE SIDED EXTENSION



Limak Hotel, Antalya

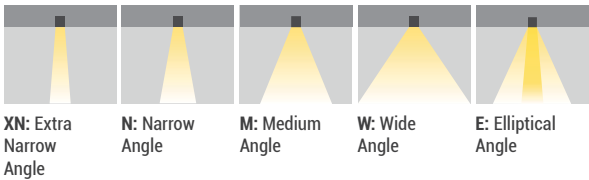


- Anodized aluminum extruded profile
- Polycarbonate luminaire glass
- PVC side covers with invisible gland outlet and UV protection
- Stainless steel fixture stand
- High efficiency group lens
- IP68 air vent
- RDMX configuration
- IP67 socket fot DATA-SIGNALS

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Length (L) (mm)	Weight (kg)
WLT109-RDMX	RGB	220-240V AC	12	360	1,0
WLT218-RDMX	RGB	220-240V AC	23	600	1,5
WLT327-RDMX	RGB	220-240V AC	34	900	2,4
WLT436-RDMX	RGB	220-240V AC	45	1190	2,9
WLT112-RDMX	RGBW/A	220-240V AC	16	360	1,0
WLT224-RDMX	RGBW/A	220-240V AC	31	600	1,5
WLT336-RDMX	RGBW/A	220-240V AC	45	900	2,4
WLT448-RDMX	RGBW/A	220-240V AC	60	1190	2,9

O Lens Options

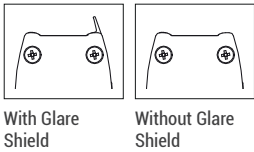


J Junction Options



Only 220V

U Upper Cover Options

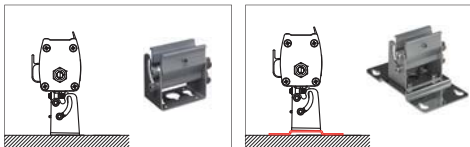


K Cable Direction Options

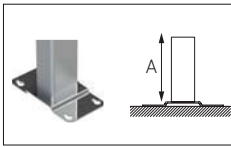


*Only for energy cable

M Mounting Options



Optional Accessories



- 34: Extension piece A=5cm
35: Extension piece A=10cm
36: Extension piece A=20cm
Extension pieces at any desired length are optional

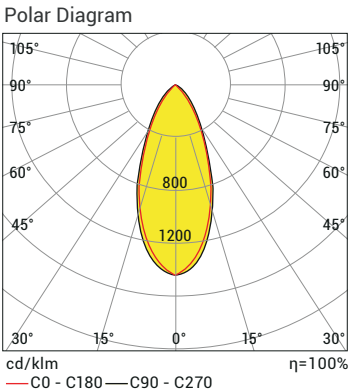


Order Code

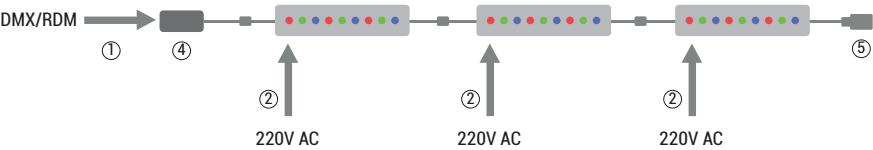
P . W . O . J . U . K . M



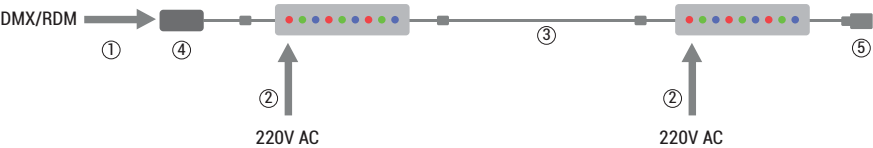
Product Diagrams



Standard Connection Scheme



Connection Scheme with Extension Socket



- (1) DMX DATA CABLE, 33400474 : CABLE 2X0,22 KR-SY LI2Y(ST)CH TP GREY
- (2) AC SUPPLY CABLE, 3x1mm TTR
- (3) 26000xxx : SOCKET RDMX L:100/200/400/600/800/1000cm 4 PIN MALE-FEMALE DOUBLE SIDED EXTENSION IP67 (YM)



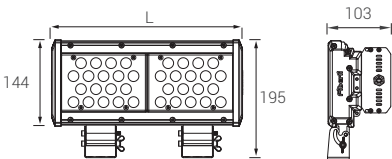
(4) 33600755: RDMX INPUT JOINT



(5) 33600696 : RDMX TERMINATOR

Accessories

- 33400474 : CABLE 2X0,22 KR-SY LI2Y(ST)CH TP GREY
- 26000122 : SOCKET RDMX L:100cm 4 PIN MALE-FEMALE DOUBLE SIDED EXTENSION IP67 (YM)
- 26000150 : SOCKET RDMX L:200cm 4 PIN MALE-FEMALE DOUBLE SIDED EXTENSION IP67 (YM)
- 26000151 : SOCKET RDMX L:400cm 4 PIN MALE-FEMALE DOUBLE SIDED EXTENSION IP67 (YM)
- 26000152 : SOCKET RDMX L:600cm 4 PIN MALE-FEMALE DOUBLE SIDED EXTENSION IP67 (YM)
- 26000153 : SOCKET RDMX L:800cm 4 PIN MALE-FEMALE DOUBLE SIDED EXTENSION IP67 (YM)
- 26000154 : SOCKET RDMX L:1000cm 4 PIN MALE-FEMALE DOUBLE SIDED EXTENSION



- Anodized aluminum extruded profile
- Electrostatic powder coated, aluminum injection end cap
- Stainless steel fixture stand
- Polycarbonate luminaire glass
- High efficiency group lens
- IP68 air vent
- RDM configuration
- IP67 socket for DATA-SIGNALS

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Length (L) (mm)	Weight (kg)
WS236-RDMX	RGB	220-240V AC	45	320	2,9
WS354-RDMX	RGB	220-240V AC	67	477	4,3
WS472-RDMX	RGB	220-240V AC	89	609	5,3
WS232-RDMX	RGBW/A	220-240V AC	59	320	2,9
WS348-RDMX	RGBW/A	220-240V AC	88	477	4,3
WS464-RDMX	RGBW/A	220-240V AC	117	609	5,3

*Power and Lumen values provided are based off of a "cold white (CW) LED".

O Lens Options



N: Narrow Angle M: Medium Angle W: Wide Angle

J Junction Options



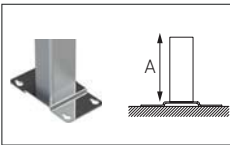
01: Cable 02: IP67 Socket

M Mounting Options



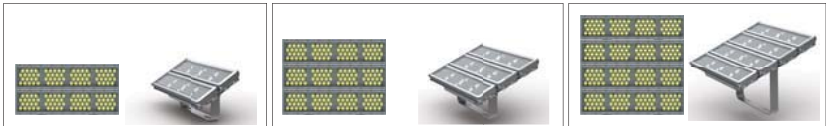
20: Standard Stand 21: Standard stand/Mounting kit

Optional Accessories



34: Extension piece A=5cm
35: Extension piece A=10cm
36: Extension piece A=20cm
Extension pieces at any desired length are optional

Additional Pieces Options



Dual Assembly Triple Assembly Quaterd Assembly

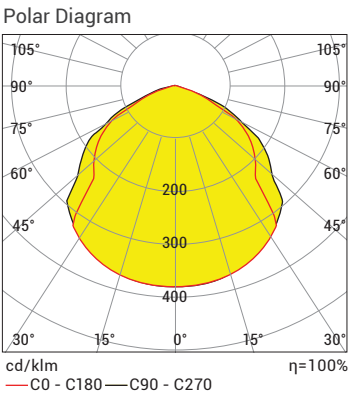
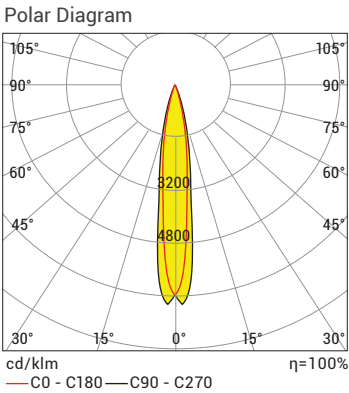


Order Code

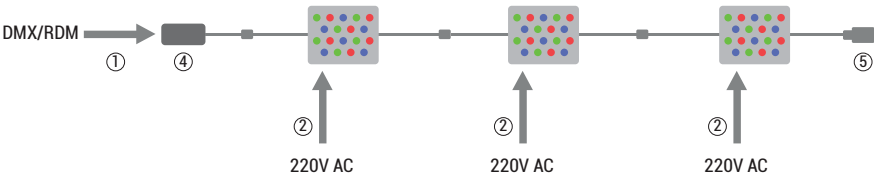
P . W . O . J . M



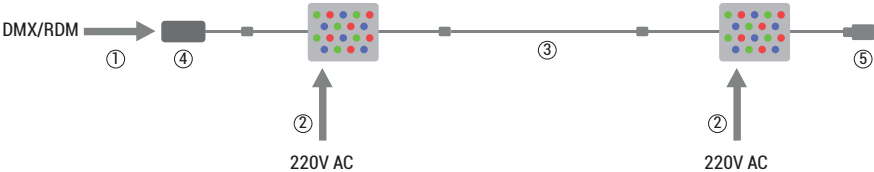
Product Diagrams



Standard Connection Scheme



Connection Scheme with Extension Socket

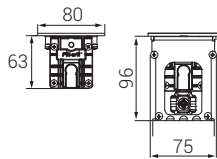
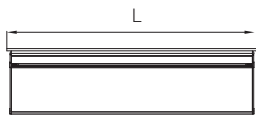


- (1) DMX DATA CABLE, 33400474 : CABLE 2X0,22 KR-SY LI2Y(ST)CH TP GREY
(2) AC SUPPLY CABLE, 3x1mm TTR
(3) 26000xxx : SOCKET RDMX L:100/200/400/600/800/1000cm 4 PIN MALE-FEMALE DOUBLE SIDED EXTENSION IP67 (YM)
(4) 33600755: RDMX INPUT JOINT
(5) 33600696 : RDMX TERMINATOR



Accessories

- 33400474 : CABLE 2X0,22 KR-SY LI2Y(ST)CH TP GREY
26000122 : SOCKET RDMX L:100cm 4 PIN MALE-FEMALE DOUBLE SIDED EXTENSION IP67 (YM)
26000150 : SOCKET RDMX L:200cm 4 PIN MALE-FEMALE DOUBLE SIDED EXTENSION IP67 (YM)
26000151 : SOCKET RDMX L:400cm 4 PIN MALE-FEMALE DOUBLE SIDED EXTENSION IP67 (YM)
26000152 : SOCKET RDMX L:600cm 4 PIN MALE-FEMALE DOUBLE SIDED EXTENSION IP67 (YM)
26000153 : SOCKET RDMX L:800cm 4 PIN MALE-FEMALE DOUBLE SIDED EXTENSION IP67 (YM)
26000154 : SOCKET RDMX L:1000cm 4 PIN MALE-FEMALE DOUBLE SIDED EXTENSION



- Anodized aluminum extruded profile
- Polycarbonate luminaire glass
- PVC side covers with invisible gland outlet and UV protection
- Stainless steel fixture stand
- High efficiency group lens
- IP68 air vent
- RDMX configuration
- IP67 socket fot DATA-SIGNALS

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Length (L) (mm)	Weight (kg)
CFL109-RDMX	RGB	220-240V AC	12	380	2,5
CFL218-RDMX	RGB	220-240V AC	23	670	4,0
CFL327-RDMX	RGB	220-240V AC	34	960	5,1
CFL436-RDMX	RGB	220-240V AC	45	1250	7,3
CFL112-RDMX	RGBW/A	220-240V AC	16	380	2,5
CFL224-RDMX	RGBW/A	220-240V AC	31	670	4,0
CFL336-RDMX	RGBW/A	220-240V AC	45	960	5,1
CFL448-RDMX	RGBW/A	220-240V AC	60	1250	2,9

O Lens Options

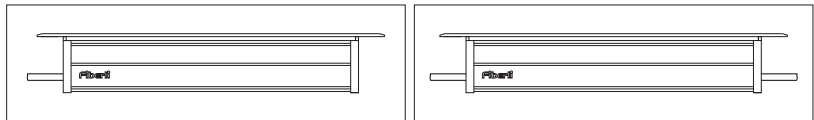


XN: Extra Narrow Angle N: Narrow Angle M: Medium Angle W: Wide Angle E: Elliptical Angle



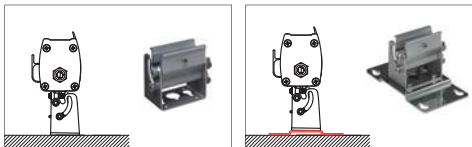
NA: Asymmetrical Narrow Angle MA: Asymmetrical Medium Angle

K Cable Direction Options



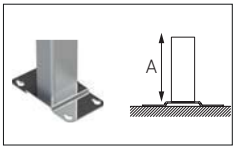
01: Single entry 03: Dual entry and exit
**Only for energy cable*

M Mounting Options



20: Standard Stand 21: Standard stand/ Mounting kit

Optional Accessories



34: Extension piece A=5cm
35: Extension piece A=10cm
36: Extension piece A=20cm
Extension pieces at any desired length are optional

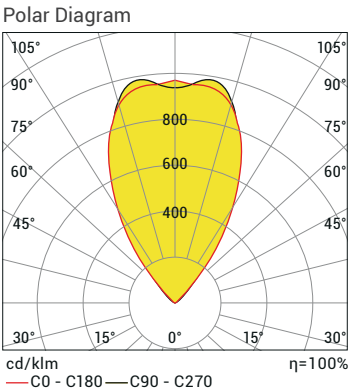


Order Code

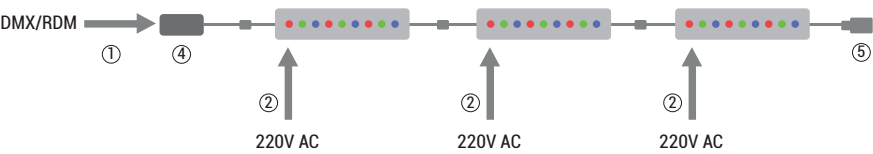
P . W . O . K . M



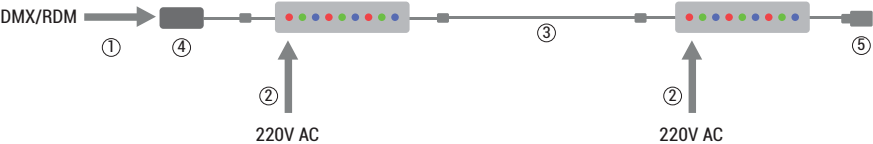
Product Diagrams



Standard Connection Scheme



Connection Scheme with Extension Socket



- (1) DMX DATA CABLE, 33400474 : CABLE 2X0,22 KR-SY LI2Y(ST)CH TP GREY
- (2) AC SUPPLY CABLE, 3x1mm TTR
- (3) 26000xxx : SOCKET RDMX L:100/200/400/600/800/1000cm 4 PIN MALE-FEMALE DOUBLE SIDED EXTENSION IP67 (YM)



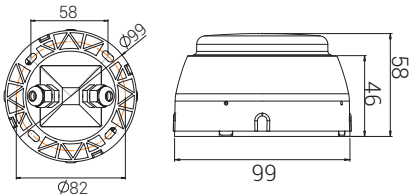
(4) 33600755: RDMX INPUT JOINT



(5) 33600696: RDMX TERMINATOR

Accessories

- 33400474 : CABLE 2X0,22 KR-SY LI2Y(ST)CH TP GREY
- 26000122 : SOCKET RDMX L:100cm 4 PIN MALE-FEMALE DOUBLE SIDED EXTENSION IP67 (YM)
- 26000150 : SOCKET RDMX L:200cm 4 PIN MALE-FEMALE DOUBLE SIDED EXTENSION IP67 (YM)
- 26000151 : SOCKET RDMX L:400cm 4 PIN MALE-FEMALE DOUBLE SIDED EXTENSION IP67 (YM)
- 26000152 : SOCKET RDMX L:600cm 4 PIN MALE-FEMALE DOUBLE SIDED EXTENSION IP67 (YM)
- 26000153 : SOCKET RDMX L:800cm 4 PIN MALE-FEMALE DOUBLE SIDED EXTENSION IP67 (YM)
- 26000154 : SOCKET RDMX L:1000cm 4 PIN MALE-FEMALE DOUBLE SIDED EXTENSION



- Plastic injection body
- Polycarbonate luminaire glass
- RDM configuration
- IP67 socket for DATA-SIGNALS

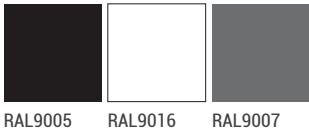
PW

Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Weight (kg)
DOT-RDMX-6	RGB	12-48V DC	2	0,2
DOT-RDMX-12	RGB	12-48V DC	3	0,2
DOT-RDMX-18	RGB	12-48V DC	5	0,2

G

Housing Color Options



U

Upper Piece Options

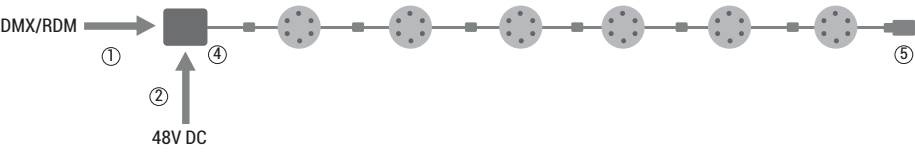


Order Code

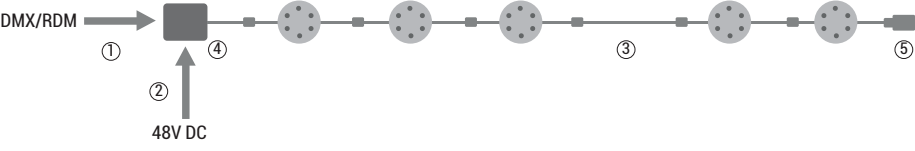
P . W . G . U



Standard Connection Scheme

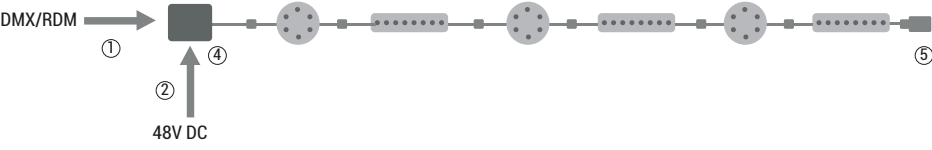


Connection Scheme with Extension Socket



Combined Model Connection Scheme

DOT-RDMX-xx and LL-RDMX-xxx can be grouped together by DOT/LL combined chain model



- (1) DMX DATA CABLE, 33400474 : CABLE 2X0,22 KR-SY LI2Y(ST)CH TP GREY
- (2) AC SUPPLY CABLE, 3x1mm TTR
- (3) 26000xxx : SOCKET RDMX L:100/200/400/600/800/1000cm 4 PIN MALE-FEMALE DOUBLE SIDED EXTENSION IP67 (YM)



(4) 33600695 :RDMX INPUT JUNCTION BOX



(5) 33600696 : RDMX TERMINATOR

Accessories

- 33400474 : CABLE 2X0,22 KR-SY LI2Y(ST)CH TP GREY
- 26000122 : SOCKET RDMX L:100cm 4 PIN MALE-FEMALE DOUBLE SIDED EXTENSION IP67 (YM)
- 26000150 : SOCKET RDMX L:200cm 4 PIN MALE-FEMALE DOUBLE SIDED EXTENSION IP67 (YM)
- 26000151 : SOCKET RDMX L:400cm 4 PIN MALE-FEMALE DOUBLE SIDED EXTENSION IP67 (YM)
- 26000152 : SOCKET RDMX L:600cm 4 PIN MALE-FEMALE DOUBLE SIDED EXTENSION IP67 (YM)
- 26000153 : SOCKET RDMX L:800cm 4 PIN MALE-FEMALE DOUBLE SIDED EXTENSION IP67 (YM)
- 26000154 : SOCKET RDMX L:1000cm 4 PIN MALE-FEMALE DOUBLE SIDED EXTENSION



LL

DP

CD

WW

CS

CF

AC

CG

CB

HB

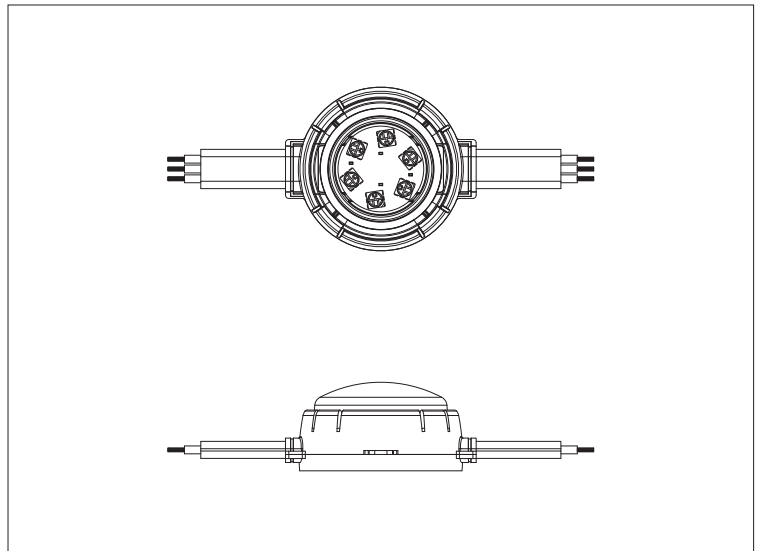
MM

RDMX

LC

FO

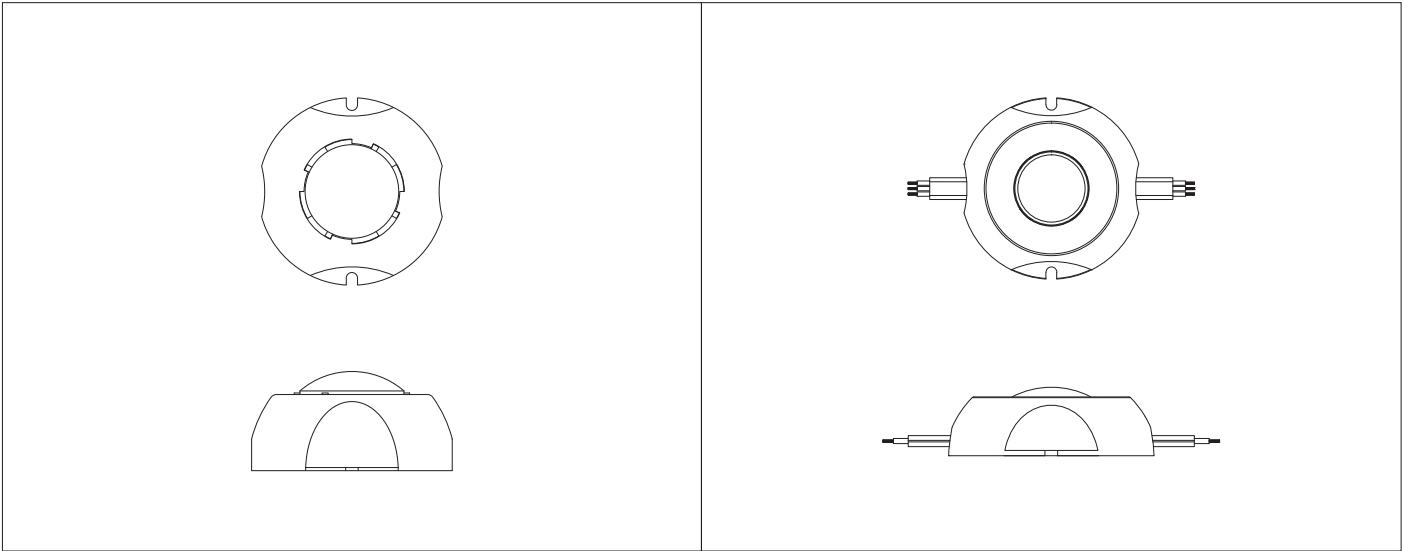
EL



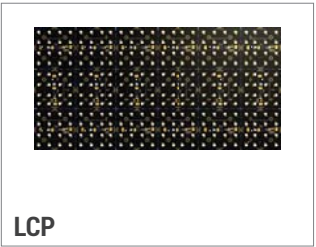
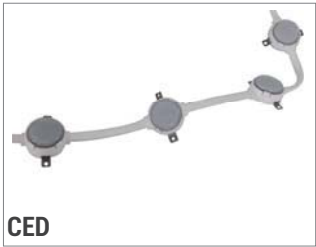
LED Cell

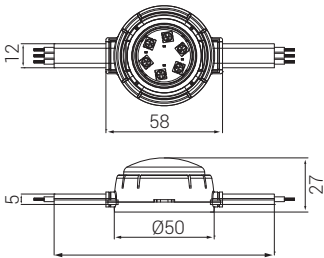
The LEDCell series is a Multi-LED curtain and spot luminaire series which can be produced in any form or measurement for organizations such as concerts, exhibitions, clubs, fairs or light shows. The pixel resolutions of these luminaires can be adjusted depending on the watching distance. Fascinating light shows and graphic animations can be displayed as well as other types of luminaires within this series which react to sound and transmit live feed. These can both be used as fixed or portable due to their flexible design.

LED Cell Products



LEDCell - LED Cell Products





- Plastic injection body
- Polycarbonate luminaire glass
- 3x1 mm flat cable

P W Product & Power Options

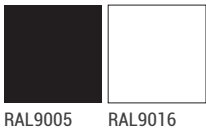
Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
CED1	WW-NW-CW	24V DC	1	120	0,09
CED6-DMX	WW-NW-CW	24V DC	2	170	0,09
CED6-DMX	RGB	24V DC	2	-	0,09

*Power and Lumen values provided are based off of "cold white (CW) LED".

C Light Color Options

WW: Warm White 3000K	R: Red 625nm
NW: Natural White 4000K	G: Green 525nm
CW: Cold White 6500K	B: Blue 465nm
RGB	A: Amber 590nm

G Housing Color Options



M Mounting Options



01: Surface mount with adhesive

14: Screw Mount

Control System Options

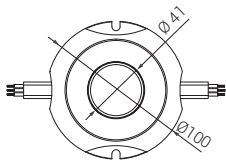
Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW	•			•	•	
R,G,B,A	•			•	•	
RGB						
RGBA/W						
RGB DMX			•			
WHITE DMX			•			



Order Code

P . W . C . G . M





- Plastic injection body
- Polycarbonate luminaire glass
- 3x1 flat cable

P W Product & Power Options

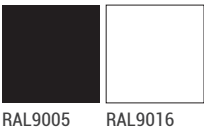
Product Name	Light Color	Input Voltage (V)	Power (W)	Luminous Flux (lm)	Weight (kg)
CEP06-DMX	WW-NW-CW	24V DC	2	150	0,2
CEP06-DMX	RGB	24V DC	2	-	0,2

*Power and Lumen values provided are based off of "cold white (CW) LED".

C Light Color Options

WW: Warm White	3000K	R: Red	625nm
NW: Natural White	4000K	G: Green	525nm
CW: Cold White	6500K	B: Blue	465nm
RGB		A: Amber	590nm

G Housing Color Options



Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW	•					
R,G,B,A	•					
RGB						
RGBA/W						
RGB DMX			•			
WHITE DMX			•			



Order Code

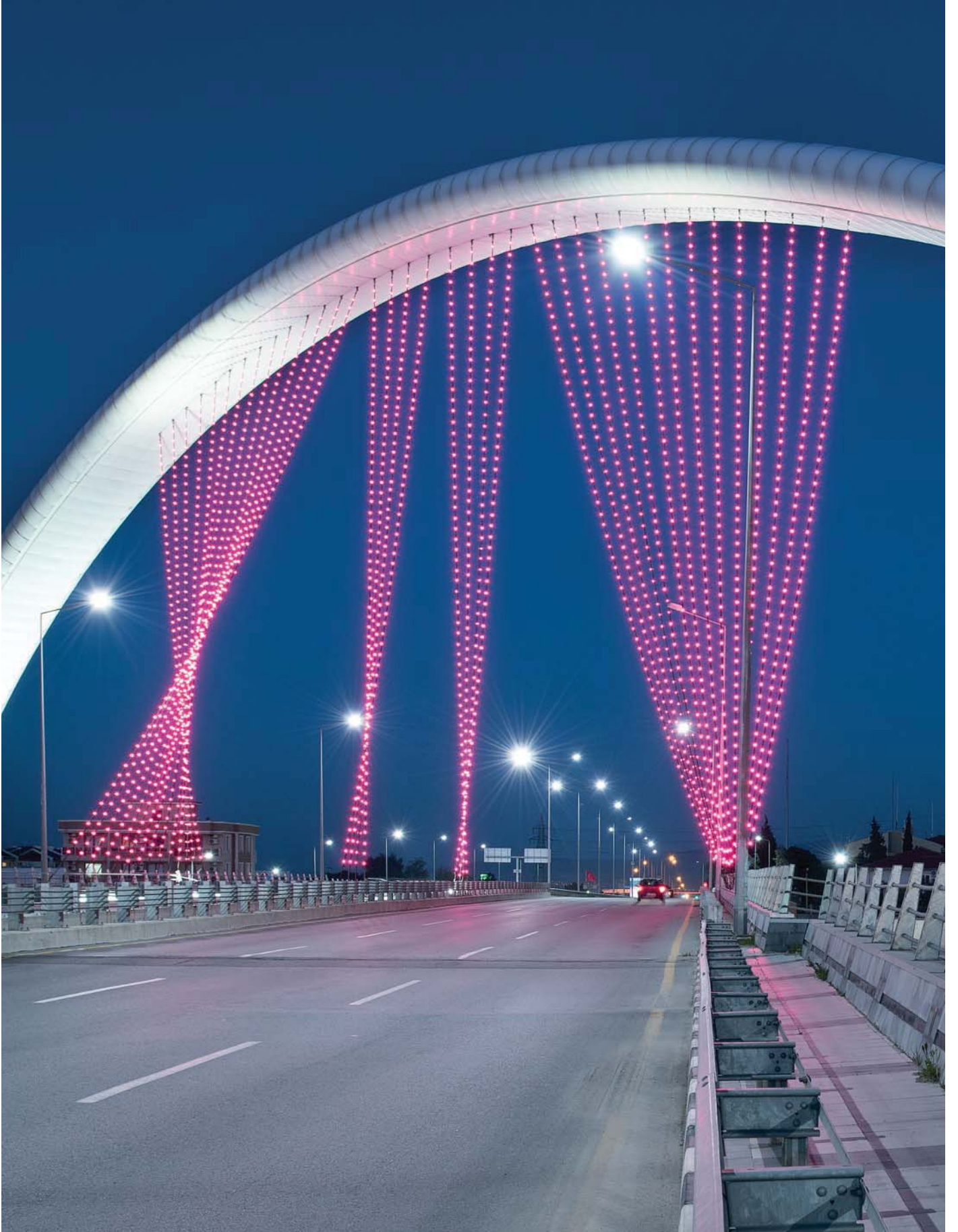
P . W . C . G





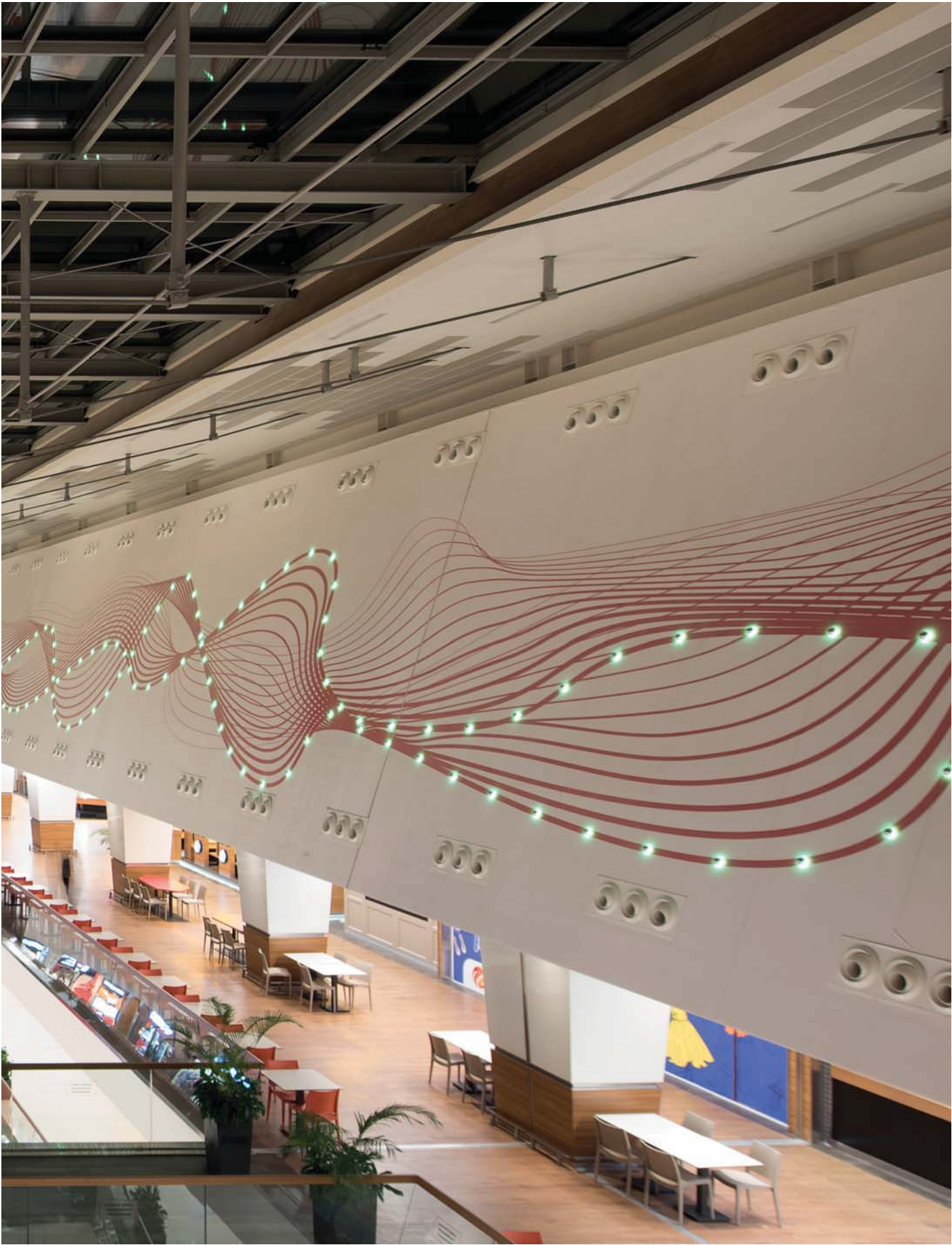
Pixel Controlled Products

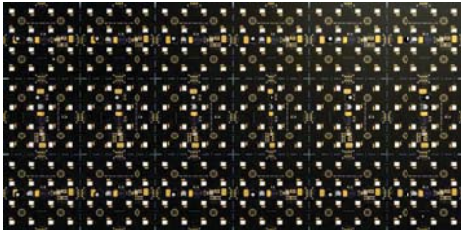
LED Cell



Alparslan Türkeş Bridge, Manisa

LED Cell





- IC Controlled
- Min 8mm/pixel

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Led Distance (mm)	Luminous Flux (lm)	PCB Measurement (mm)	Weight (kg)
LEDCell Panel	RGB	5V DC	-	20	-	3200x3200	-
LEDCell Panel	RGB	24V DC	-	24	-	2860x5750	-
LEDCell 20	RGB	5V DC		50			
LEDCell 30	RGB	5V DC		33			

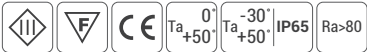
C Light Color Options

● WW: Warm White	3000K	● R: Red	625nm	● RGB
● NW: Natural White	4000K	● G: Green	525nm	● RGBW
● CW: Cold White	6500K	● B: Blue	465nm	● RGBA
		● A: Amber	590nm	



Order Code

P . W . C



Please contact our sales representatives for special application requests other than the standard product.

LEDCell Panel 5V:

- Used in indoors.
- Input voltage is 5V.
- Application and mounting options depending on the project.
- Led spacing is 2cm.
- Matrix PCB is manufactured in 320mm X 320mm dimensions.

LEDCell 20:

- Designed as 20 pixel per 1 meter.
- Input voltage is 5V.
- Led spacing is 5 cm.
- Can be divided by every LED.
- The profile, which can be utilised with this product, is deep housing profiles. LLI, LLW2, LLU profiles can be listed as an example.
- Outdoor or indoor options are available.
- Custom dimensions are available.

LEDCell Pixel Bar:

This bar is utilised through mounting on FR4 PCB strips with a width of 16 mm and length of 40 cm for indoor implementations at a resolution range of 30mm-70mm/pixel. Single side supply up to 5 meters can be applied by joining the strips. This structure can also be utilised with all LLS, LLK and LLU profiles. Through interconnecting these profiles, video, graphic and animation panels at desired dimensions are created. It can adapted to outdoor use through polymer coating.

LEDCell Pixel Tube:

These products can be utilised via mounting on FR4 PCB strips, with a width of 8 mm and length of 40cm for applications at resolution ranges of 30mm-70mm/pixel in order to establish a flexible structure at in- and outdoors. These strips, by being attached to each other, can be utilised with single-sided supply up to 4 meters. Video, graphic and animation panels can be formed, at desired dimensions, by placing this structure into transparent or diffused polycarbonate tubes, with an outer diameter of 10mm, and attaching strips, which can stretch up to 1-meter diameter. The silicon covers, utilised for the tube, accommodates the use of product for outdoor applications.

LEDCell Panel 24V:

- Used in indoors.
- Input voltage is 24V.
- Application and mounting options depending on the project.
- Led spacing is 2,4cm.
- 18 block matrix PCB can be divided into 18 separate pieces and each can be used by itself.
- There are 288 LEDs on 18 block matrix PCB and 16 LEDs in every block.
- The dimensions of the 18 block matrix are 286mm x 575 mm. The dimensions of a single block is 95mm x 95mm.

LEDCell 30:

- Designed as 30 pixel per 1 meter.
- Input voltage is 5V.
- Led spacing is 3, 33 cm.
- Can be divided by every LED.
- The profile, which can be utilised with this product, is deep housing profiles. LLI, LLW2, LLU profiles can be listed as an example for these profiles.
- Outdoor or indoor options available.
- Custom dimensions are available.

These products can be utilised via mounting on FR4 PCB strips, with a width of 8 mm and length of 40cm for applications at resolution ranges of 30mm-70mm/pixel in order to establish a flexible structure at in- and outdoors. These strips, by being attached to each other, can be utilised with single-sided supply up to 4 meters. Video, graphic and animation panels can be formed, at desired dimensions, by placing this structure into transparent or diffused polycarbonate tubes, with an outer diameter of 10mm, and attaching strips, which can stretch up to 1-meter diameter. The silicon covers, utilised for the tube, accommodates the use of product for outdoor applications.



LEDCell Pixel Chain:

It is consisted of pixels, formed with FR4 PCB with a length of 30mm and width of 16mm or 8mm at pixel spacing longer than 70mm. The resolution of these structures determines the length of the cable used between the pixels. The pixels with 16mm width of these structures are utilised with LLS, LLK and LLU profiles and with 8mm width, on the other hand, by being placed in transparent or diffused polycarbonate tubes, with an outer diameter of 10mm. Once again video, graphic and animation panels, at desired dimensions can be established by means of attaching these structures together.

SYSTEM SPECIFICATIONS

The LED Cell system is much more economical, in comparison with rapid, reasonable and equivalent systems. The product, which is created as a result of imposition of central processor within the LED product via the high integration technique, completely eliminates the overpriced, heavy and burdensome electronic congestion of previous generation RGB systems. This system offers an opportunity for design with its simple and elegant measurements. The array units, which are designed to be flexible in terms of the desired resolutions, can subside to resolutions, starting from 1cm pixel spacing, thus increasing the image quality. The Smart LED, within PLCC casing equipped with high quality RGB LED chips, can ensure the precise processing of all data with the 1.2 MHz processor, available inside the LED, and the transmission of data, unlinked with the LED, to other LEDs. The LED lifetime is secured by driving of LEDs with accurate current intensity via the constant current driver technique. The need for extra components is eliminated by means of the integrated processor and inter-processor LDO. The LED array structure, in conformity with the IP67 Protection Class and also the IP67 outer housing provide double protection against the adversity of weather conditions while working outdoors. The user can easily prepare shows and control the system with the provided software. It can operate on its own, without the need for a computer, by means of uploading the prepared shows to a SD card and loading on the controlling device. This product is a flexible solution for utilisation for animation and show purposes.

RESOLUTION

Highest resolution 8mm/pixel, lowest resolution 300mm/pixel.

DATA TRANSFER

- SD CARD
- Optional Video / VGA / LAN RJ45 / HDMI / WI-FI

LED

PLCC 5050 R, G, B high brightness LED chip + Integrated

ADDRESSING

- Automatic addressing and mapping function with internal CPU
- LED drive with inner constant current source
- 1.677.216 color options
- 256 Grey level detection
- 32 step brightness control
- Signal verification automatic
- Inner 1.2 MHz processor speed
- 15 MHz maximum data speed detection and rendition
- Restructuring of data signal with phase reversal lock and possibility to transfer 1000 LEDs at 1 MHz
- Impact and difficult conditions resistant physical structure with its SMD structure
- Does not require extra electronic component due to its completely integrated structure. Easily enlarged and minimized system structure.

ARRAY STRUCTURE

Compatible to operate outdoors within IP44 as standard and IP65 protection class as optional, can operate at -20 +55 C temperature and %90 relative humidity.



CONTROL SYSTEM

PC based, minimum 1Ghz processor, 256 Mb Ram, 1GB hard disk, VGA video card, Ethernet port and smart card printer.

CONTROL DEVICE

Each control device has the capacity to drive 2422 LEDs and enables the driving of 196.000 LED units in cascade connection through Ethernet. The animations and shows can be transmitted to the control device with the aid of a computer or installed SD memory units, if desired.

UTILITIES AND SPECIFICATIONS

Animation design and control is ensured via FIBERLI LED BUILD and FIBERLI LED STUDIO software.

- User-friendly, easily comprehensible menus.
- Built-in array maps and easily constructible mapping interfaces.
- Integrated with the programme, easy to use, direct programming of effects
- Text adding, wrapping menus
- Opportunity for handmade ready grid stage entrance
- Feasibility to include stages and effects in between, to the beginning and end.
- Easy image reception in-between to LED from video signal
- WMV, FLV, Jpeg, Mpeg, PNG, PSD sampling
- Utilised control devices can easily be identified to the system
- Software compatible with quickly preparing and executing shows
- Software compatible with Windows operating system



LL

DP

CD

WW

CS

CF

AC

CG

CB

HB

MM

RDMX

LC

FO

EL

Fiber Optic

Fiber optic lighting is the transmission of light, generated by a light generator, to the desired area through the medium of fiber optic cables. The source of light undertakes the task of light generation and the fiber optic cable, the task of light transmitter. The only limit in designing with the fiber optic lighting system is your imagination. You can apply almost everything that you can imagine. The most fundamental characteristics of fiber optic lighting technology, which creates its difference to other lighting technologies are freedom and flexibility. You have the freedom to place the light source, used for fiber optic lighting systems, at any desired location. This notion of freedom comes with plenty of advantages.

The Fiber Optic lighting system is comprised of 2 main parts :

- Light source

- Fiber Optic cable harness

(*) IF demanded, fiber optic cables can be used with lens luminaires attached to them.

The Fiber Optic cables are harnessed after being cut in compliance with the prepared project architectural design or requirement. These harnesses are placed to the light source (point of origin of light) with terminal sleeves. Thus, the light, generated by the light source, is transmitted through the fiber optic harness to the luminaire or directly bare fiber optic end. A single Fiber optic cable harness is comprised of fiber optic cables, with the same or different diameters or lengths, which are completely determined according to your needs. Fiber optic lighting system delivers a lighting marvel which will stretch the imagination in architectural design, making the separation of luminaire and light source via fiberoptic cables. The luminaires to be used include a wide range of variety, depending upon the architecture of the venues (such as a crystal end, a terminal end, lens luminaires)

Intended use of lens luminaire

- Aesthetical and aesthetic appearance

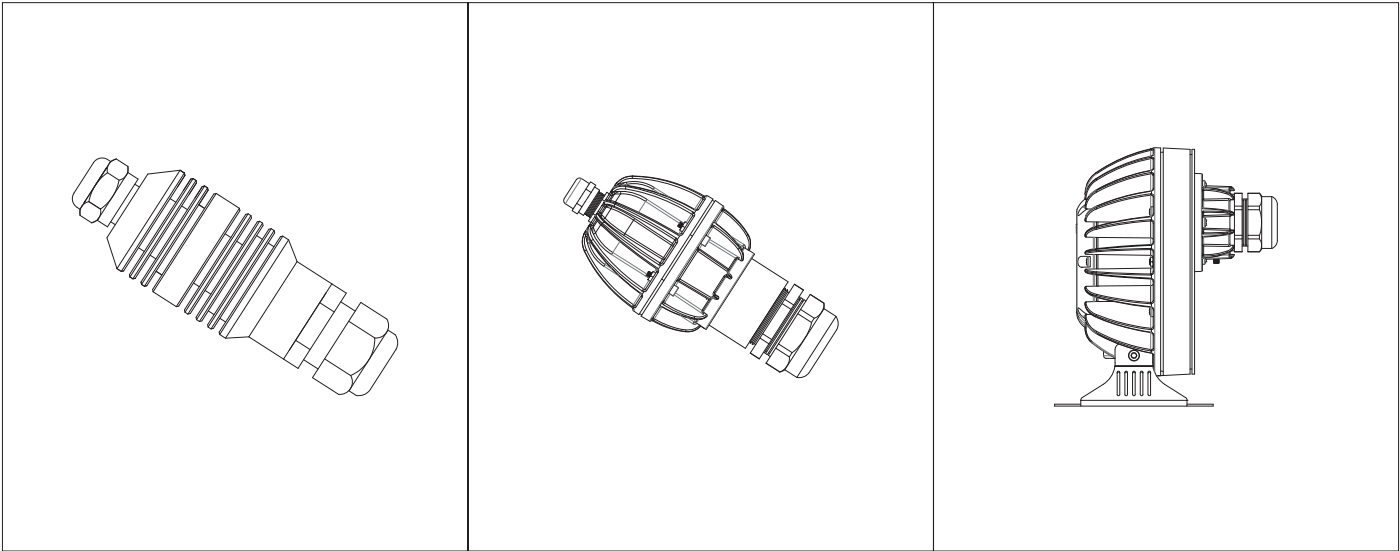
- More intensive light

- Where spot lighting is needed.

- Where flood lighting is needed.

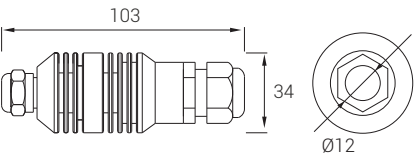
Additionally, these luminaires also take precedence over the conventional lighting components due to their smaller dimensions and offering the capability to be equipped with optic lenses. The outlet angle of the light can be lowered to 1 degree from 120 degrees with luminaires selected for proper use, in order to increase the light intensity. Thus, the desired effect can clearly be achieved.

Fiber Optic Products



Fiber Optic - Fiber Optic Products and Accessories





- Aluminum body
 - Fixed (unchanging) or changing color option
 - Works silently, without the need for fan cooling
 - Up to 200 mixed fiber optic strands
- *See size options in table F0 package options*

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Weight (kg)
IK7-V2	WW-NW-CW	220-240V AC	2	0,3
IK7-V2	WW-NW-CW	5V DC	2	0,3
IK7-V2	RGB	7,5V DC	6	0,3

C Light Color Options

WW: Warm White	3000K	R: Red	625nm
NW: Natural White	4000K	G: Green	525nm
CW: Cold White	6500K	B: Blue	465nm
		A: Amber	590nm

UZ Lenght Options

0 (Only light source)	200cm
100cm	300cm
150cm	500cm

PK Package Options

50 Mixed Strand	150 Mixed Strand
75 Mixed Strand	200 Mixed Strand
100 Mixed Strand	

Fo Package Options

Fiber Optic Cable Type	50 Mixed strand (qty)	75 Mixed strand (qty)	100 Mixed strand (qty)	150 Mixed strand (qty)	200 Mixed strand (qty)
20	0	0	0	88	133
30	20	40	60	30	40
40	10	16	25	15	15
60	8	10	8	10	8
80	6	5	5	5	2
100	3	2	1	1	1
120	3	2	1	1	1

Control System Options

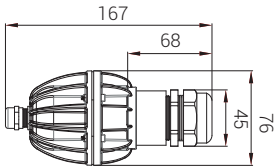
Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW	•				•	
R,G,B,A	•				•	
RGB	•					
RGBA/W	•					
RGB DMX						
WHITE DMX						



Order Code

P . W . C . UZ . PK





- Electrostatic powder coated aluminum injection body
 - Fixed (unchanging) or changing color option
 - Works silently, without the need for fan cooling
 - Comes with up to 400 mixed fiber optic strands
- *See size options in table FO package options*

P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Weight (kg)
IK77-V2	WW-NW-CW	220-240V AC	10	0,53
IK77-V2	WW-NW-CW	12V DC	13	0,53
IK77-V2	WW-NW-CW	12V DC	18	0,53
IK77-V2	RGB	12V DC	18	0,53

C Light Color Options

WW: Warm White	3000K	R: Red	625nm
NW: Natural White	4000K	G: Green	525nm
CW: Cold White	6500K	B: Blue	465nm
		A: Amber	590nm

UZ Lenght Options

0 (Only light source)	200cm
100cm	300cm
150cm	500cm

PK Package Options

100 Mixed Strand	300 Mixed Strand
150 Mixed Strand	350 Mixed Strand
200 Mixed Strand	400 Mixed Strand
250 Mixed Strand	

Fo Package Options

Fiber Optic Cable Type	100 Mixed strand (qty)	150 Mixed strand (qty)	200 Mixed strand (qty)	250 Mixed strand (qty)	300 Mixed strand (qty)	350 Mixed strand (qty)	400 Mixed strand (qty)
20	0	35	60	90	120	140	150
30	20	30	40	60	90	100	120
40	20	25	35	30	40	60	90
60	18	20	30	35	20	28	22
80	16	16	18	20	15	10	10
100	14	12	10	10	9	6	4
120	12	12	7	5	6	6	4

Control System Options

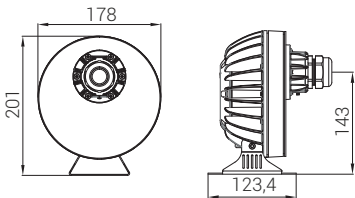
Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW	•				•	
R,G,B,A	•				•	
RGB	•					
RGBA/W						
RGB DMX						
WHITE DMX						



Order Code

P . W . C . UZ . PK





- Electrostatic powder coated aluminum injection body
- Mechanical filter
- High efficiency with Multi-Chip LED
- Works silently, without the need for fan cooling
- Comes with up to 400 mixed fiber optic strands

*See size options in table FO package options

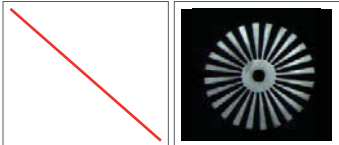
P W Product & Power Options

Product Name	Light Color	Input Voltage (V)	Power (W)	Weight (kg)
IK777	WW-NW-CW	220-240V AC	25	2,1
IK777	WW-NW-CW	220-240V AC	40	2,1

C Light Color Options

WW: Warm White	3000K
NW: Natural White	4000K
CW: Cold White	6500K

U Filter Options



24: Without Filter 25: Mechanical Filter

UZ Lenght Options

0 (Only light source)	200cm
100cm	300cm
150cm	500cm

PK Package Options

100 Mixed Strand	300 Mixed Strand
150 Mixed Strand	350 Mixed Strand
200 Mixed Strand	400 Mixed Strand
250 Mixed Strand	

Fo Package Options

Fiber Optic Cable Type	100 Mixed strand (qty)	150 Mixed strand (qty)	200 Mixed strand (qty)	250 Mixed strand (qty)	300 Mixed strand (qty)	350 Mixed strand (qty)	400 Mixed strand (qty)
20	0	35	60	90	120	140	150
30	20	30	40	60	90	100	120
40	20	25	35	30	40	60	90
60	18	20	30	35	20	28	22
80	16	16	18	20	15	10	10
100	14	12	10	10	9	6	4
120	12	12	7	5	6	6	4

Control System Options

Color Type	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW						
R,G,B,A						
RGB						
RGBA/W						
RGB DMX						
WHITE DMX						



Order Code

P . W . C . U . UZ . PK



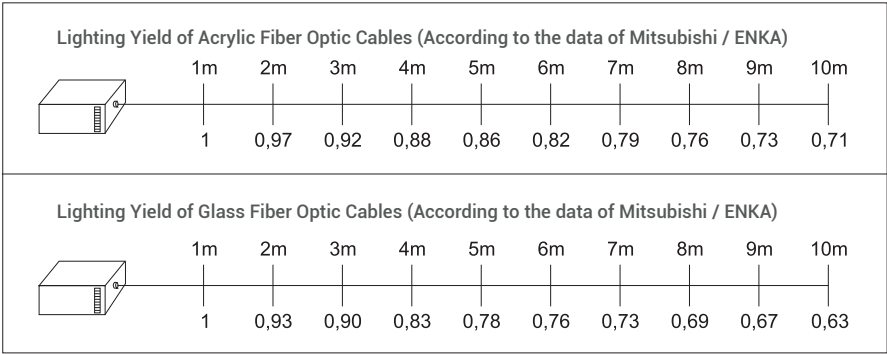




Toaz Hotel, Russia



- Electrostatic powder coated aluminum injection body
 - Fixed (unchanging) or changing color option
 - Works silently, without the need for fan cooling
 - Comes with up to 400 mixed fiber optic strands
- *See size options in table FO package options*



FiberOptic Cables / FOK

These are the system's basic components that enable the transportation of the light, generated at the light source, to the area of usage. The fiber optic cables are lifetime guaranteed, except the circumstances of application of force and fading or degradation would not occur in the light transported by such cables. Fiber optic cables can be applied anywhere between the temperatures of +110°C and -40°C and are resistant against adverse conditions such as underground, underwater, inner concrete and humid areas. Due to being light transporters, these cables do not cause any risk of power failure. All of the fiber optic cables, utilised for our products, are fiber optic cables manufactured by the Mitsubishi Company. Mitsubishi, which has been manufacturing fiber optic cables since 1975, is one of the best companies throughout the world in this regard. Mitsubishi, aside from our company, exports these cables to many highly qualified companies, located in the in the USA and Europe. Fiber optic cables are manufactured as bared in two main forms which are glass and acrylic. The cutting and shaping, forming harnesses, encasement and finishing of fiber optic cables, depending on needs, which we import in reels, unprocessed, are performed by our company.

Acrylic Fiber Optic Cables

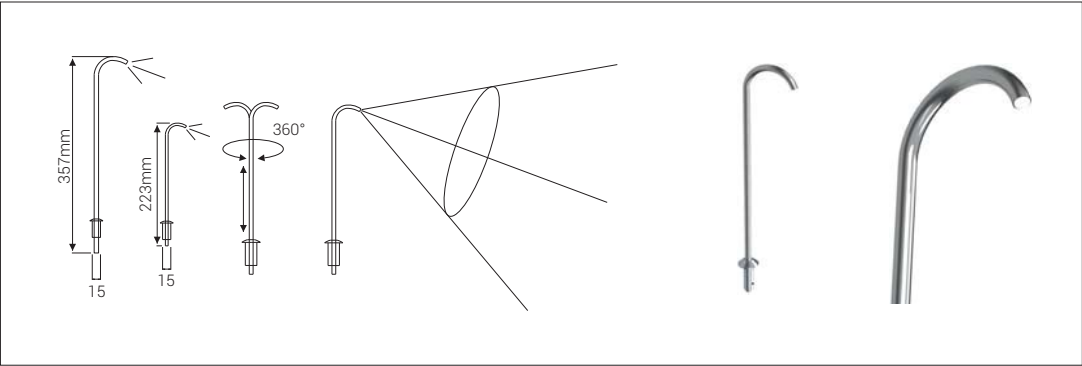
Poly Methyl Methacrylate (PMMA) is utilised as a basic substance for the structures of these cables. These are manufactured in diameters between 0.25 mm and 3 mm. The cables can provide long term runtime between the degrees of -40 and +70 °C and short term runtime up to +110°C. These can enable the transportation of the generated light, when affixed to the light outlets of light sources. As these cables can radiate from ends, they can also be ensured to give off light from the side after being harnessed or braided or to transport more quantity of light by being harnessed and encased. The cutting of parts of the cables, which are affixed to the light sources, require quite a specific technology, thus making the on-site manufacturing of fiber optic systems rather difficult. Due to the aforesaid fact, we forge package systems, by merging the ends of fiber optic cables, in a given number and dimensions or prepare cables at the required dimensions and quantities.

Non-sheathed Cables

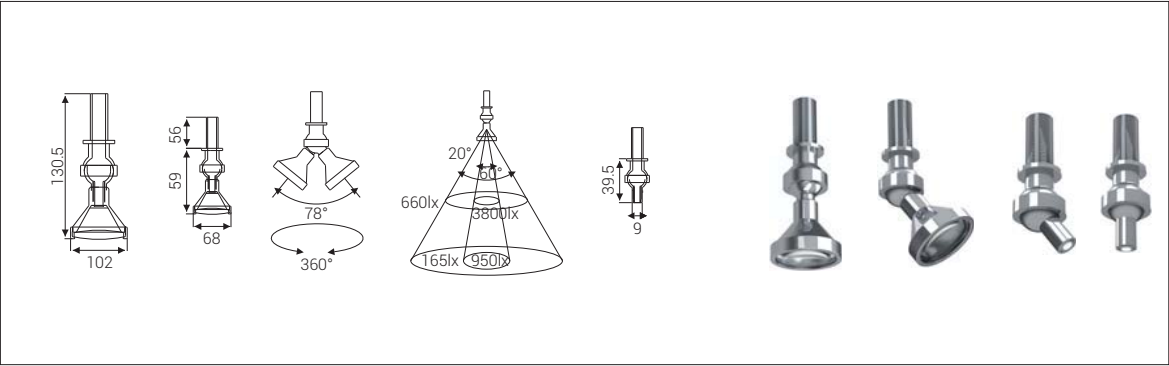
Product Code	Section	Section area (mm²)	Diameter (mm)	m/mkr
Fiberli FOK 10	• —————	0,049	0,25	12.000
Fiberli FOK 20	• —————	0,196	0,50	6.000
Fiberli FOK 30	• —————	0,441	0,75	2.700
Fiberli FOK 40	• —————	0,785	1,00	1.500
Fiberli FOK 60	• —————	1,766	1,50	700
Fiberli FOK 80	• —————	3,140	2,00	250
Fiberli FOK 100	• —————	4,906	2,50	250
Fiberli FOK 120	• —————	7,065	3,00	150



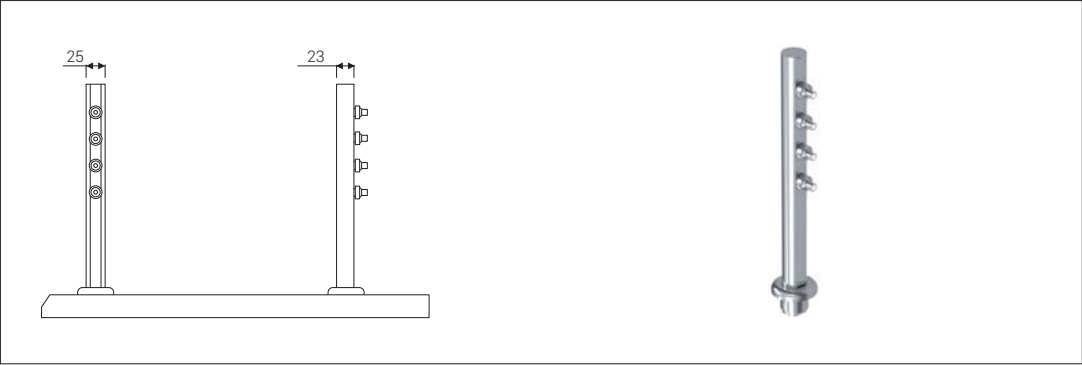
L Type Lens



G Type Lens



DK Type Lens





Electronic Control Systems

LL

DP

CD

WW

CS

CF

AC

CG

CB

HB

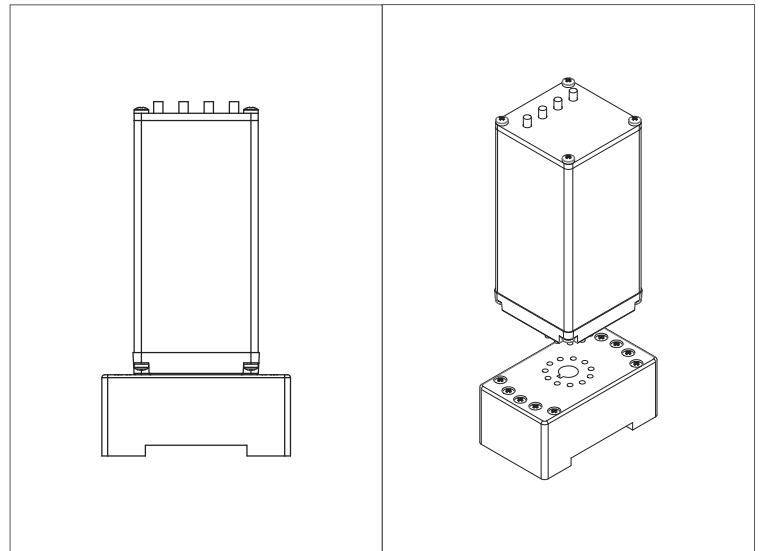
MM

RDMX

LC

FO

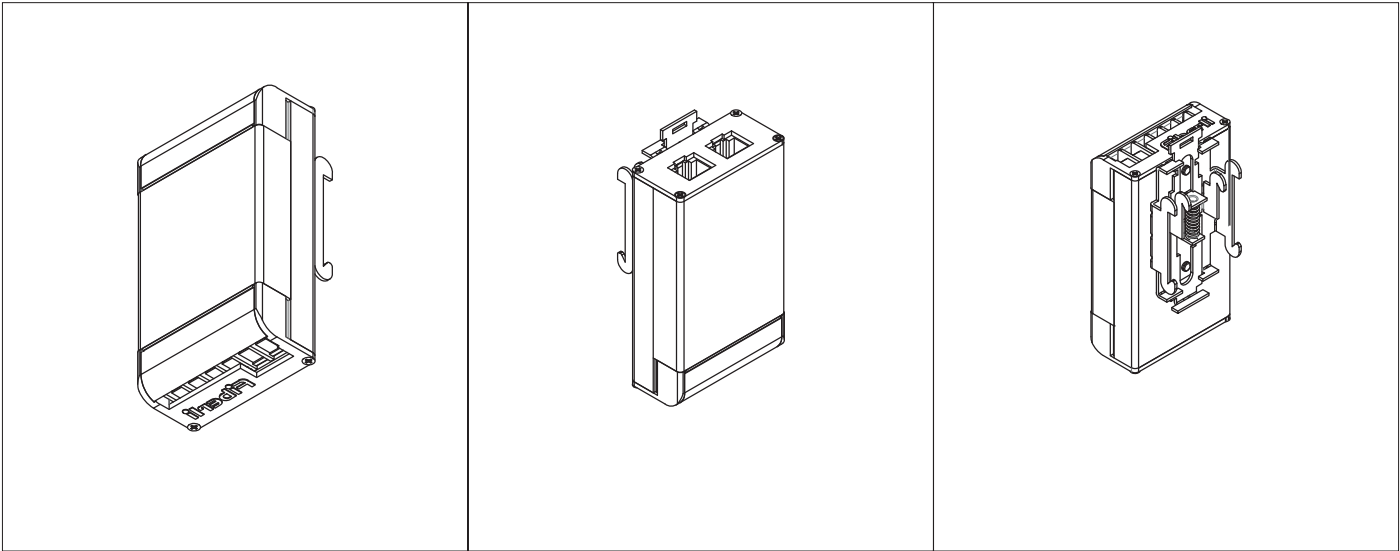
EL



• Electronic Control Systems

DMX, PWM and modulators are used for dim control, color control and on-off settings of the LED systems and they are called "Electronic Control Systems". On the project, the control units have to be designed and be determined compatible to each other, according to requirements of the project design.

Electronic Control Systems

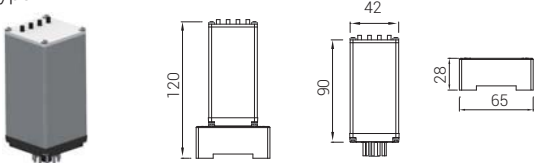
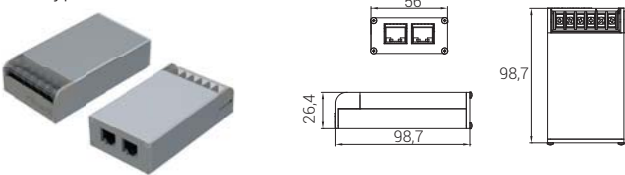
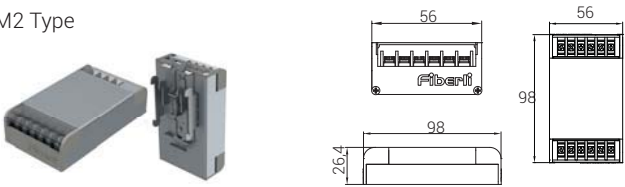
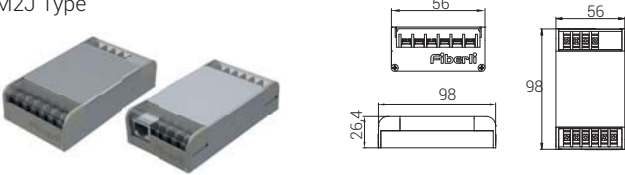


Electronic – Electronic & Control Systems





Box Types

Explanation		
R Type		11 pinned socket compatible with mounting to internal panel ray.
M1J Type		One side screw terminal and other side RJ45 socket compatible to use in or out of the panel.
M2 Type		Both sides screwed terminal. In or out of the panel
M2J Type		2 sides screw terminal and 1 side RJ45 socket, in or out of the panel
D Type		Wall mounting, screwed terminal
L Type		Designed with a thin long structure with cable inlets and outlets in order to be used inside the luminaire and on line, thus featuring the same mounting options with LEDLine luminaires.
UK Type		Its Fibered Remote controls provides you with the opportunity for wireless control of lighting systems up to 30 Meters of distance. Depending on the remote control type, this type enables you to control the setting of the desired color and light intensity, powering o and off and various lighting animations with the 2.4 GHz RF modulation by means of the touch-sensitive area and function keys on the handle. It offers the controlling of many receiver control units or the flexibility to classify the remote controls with a single remote control. The 2.4 GHz receiver units are compatible with Fibered Wi-Fi Bridge control and enable control also with Smart Phones via the network established with the matching with the Bridge.



		Explanation
--	--	-------------

DE Type



Touchscreen, wall mounting, modulator and dimmer.

41000106 - Wi-Fi Bridge



It is the bridge system, which also enables the control of fibered remote control products via Wi-Fi. It also offers the opportunity to control the lighting systems with smart telephones and tablets via the internet by means of IOS-Android applications.

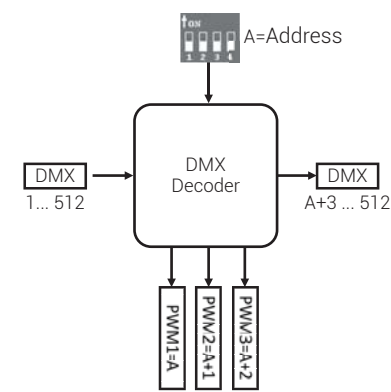
Box Types

Product code	Description	Case	Interface	Input Control-Data signal	Output Data Signal	Output Number of the channels	Output Power Signal	Feed
33600239	DMX Decoder	R	DIP-Switch	DMX	DMX	3	PWM 3x6A	5-24V DC
33600285	DMX Decoder	R	DIP-Switch	DMX	DMX	3	INV-PWM 3x6A	5-24V DC
33600456	DMX Decoder	M1J	DIP-Switch	2 x DMX/PDMX	PDMX	3	PWM 3x5A	7-24V DC
33600317	DMX Decoder	M1J	DIP-Switch	2 x DMX/PDMX	PDMX	4	PWM 4x5A	7-24V DC
*	DMX Decoder	M2	DIP-Switch	DMX/PDMX	PDMX	3	INV-PWM 3x5A	7-24V DC
*	DMX Decoder	M2	DIP-Switch	DMX/PDMX	PDMX	4	INV-PWM 4x5A	7-24V DC
*	DMX Decoder	M2	DIP-Switch	DMX/PDMX	PDMX	3	PWM 3x5A	7-24V DC
33600424	DMX Decoder	M2	DIP-Switch	DMX/PDMX	PDMX	4	PWM 4x5A	7-24V DC
33600401	DMX Decoder	M2	DIP-Switch	DMX/PDMX	PDMX	3	INV-PWM 3x5A	7-24V DC
*	DMX Decoder	M2	DIP-Switch	DMX/PDMX	PDMX	4	INV-PWM 4x5A	7-24V DC
33600265	DMX Decoder	L	DIP-Switch	DMX	DMX	3	PWM 3x2A	7-24V DC
33600189	DMX Buffer	R	-	DMX	DMX	-	-	7-24V DC
33600307	DMX Buffer	M2	-	DMX/PDMX	PDMX	-	-	7-24V DC
33600389	DMX Buffer	L	-	DMX	DMX	-	-	7-24V DC
33600240	PWM Switch	R	-	PWM	-	3	PWM 3x6A	5-24V DC
33600279	PWM Switch	R	-	PWM	-	3	INV-PWM 3x6A	5-24V DC
33600369	PWM Switch	M2	-	PWM	-	4	PWM 4x5A	5-24V DC
33600391	PWM Switch	M2	-	PWM	-	4	INV-PWM 4x5A	5-24V DC
33600366	PWM Dimmer	R	DIP-Switch	0-10V/1-10V	-	1	PWM/INV-PWM 3x5A	5-24V DC
33600277	PWM Dimmer	M2J	-	4 Button	-	4	PWM/INV-PWM 4x2A	7-24V DC
33600365	PWM Dimmer	D	POT	-	-	1	PWM/INV-PWM 1x5A	7-24V DC
33600461	PWM Dimmer	L	1 Button	-	-	1	PWM 1x5A	7-24V DC
*	PWM Dimmer	L	1 Button	-	-	1	INV-PWM 1x5A	7-24V DC
33600190	PWM Dimmer	85x45x25	R.Control 1 Color	RF 2,4 GHz	-	1	PWM 2x6A	12-24V DC
33600191	PWM Dimmer	85x45x25	R.Control 2 Color	RF 2,4 GHz	-	2	PWM 2x6A	12-24V DC
41000198	PWM Dimmer	85x45x25	R.Control 4 Region	RF 2,4 GHz	-	2	PWM 2x6A	12-24V DC
33600171	PWM Modulator	R	4 Button	-	-	3	PWM 3x5A	5-24V DC
41000199	PWM Modulator	85x45x25	R.Control RGBW	RF 2,4 GHz	-	4	PWM 4x?A	12-24V DC
33600178	PWM Modulator	85x65x25	R.Control RGB	RF 2,4 GHz	-	3	PWM 3x6A	12-24V DC

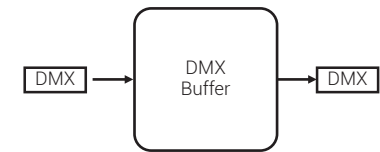
* Unready



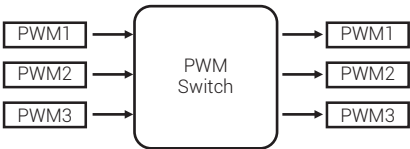
Control Devices



Product Description	Explanation	Place of use
DMX Decoder Converts the universal standard DMX512/1990 signal into analog signal. Dims the light for mono color products.	1-3 channel (RGB)/ + channel (RGBW) PWM/INV-PWM output. 2-Address setting with the DIP-SWITCH. It transmits the set address to the PWM /INV-PWM output and transmits the addresses that are not set to the DMX output	To control PWM fixtures with DMX signal. To set the input addresses of DMX fixtures.

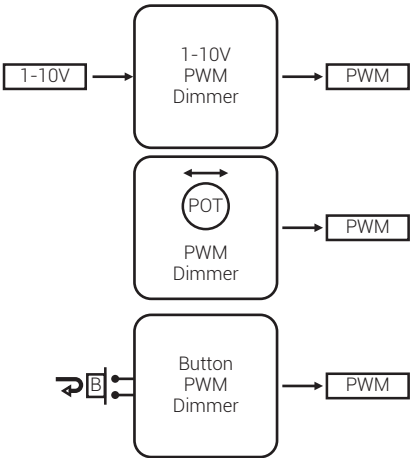


Product Description	Explanation	Place of use
DMX Buffer Repeats DMX Signal	1 -Has DMX input and DMX output 2-Renews voltage of DMX input signal and transmits it to the output.	To transmit DMX signal for long distance. Repeats DMX signal

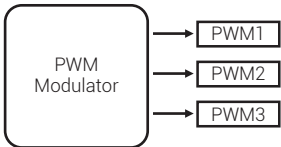


Product Description	Explanation	Place of use
PWM Switch Repeats PWM Signal	1-3 Channels (RGB) / 4 Channels (RGBW) of PWM input. 3 channels (RGB) PWM/INV-PWM output. Isolates all outputs and inputs from each other.	Increasing PWM signal current. Increasing and decreasing PWM signal voltage. Providing electrical isolation

Control Devices



Product Description	Explanation	Place of use
PWM Dimmer Generates PWM signal Dims the light on monocolor fixtures	1-10 V Analog or POT or button output or remote line. 2- 10 V ANALOG: Generates voltage values between 1V and 10V. Generates PWM signals variaty duty from %0 up to %100 3-POT: Generates PWM signals variaty duty from %0 up to %100 by rotating left and right. Button: Generates PWM signals variaty duty from %0 up to %100 by holding the button down. Once released and hold the button down again the direction changes. If the button released and	Regulating and dimming the light for mono color fixtures. Regulating the light for CW and WW color fixtures.



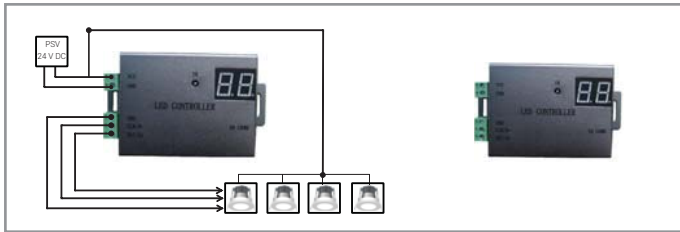
Product Description	Explanation	Place of use
DMX Modulator Generates PWM signal. Provides color animation for 3-color (RGB) and 4-color (RGBW) fixtures.	1-Set with button and remote control. PWM output Button: Sets animation speed or changes animation by pressig the button. Remote Controller: Sets animation speed or changes animation by the touch screen remote controller.	Animating for 3-color (RGB) / 4-color (RGB).



1. FBR 705SB

Single port output. Can control DMX 170 pixels ,Cell 4096 pixels. Up to 4 GB animation can be uploaded on a SD Card. Can be controlled by a remote controller. Ability to play only selected animation or all animations in sequence. Adjustable brightness and speed. Easy animation coding. Input voltage is 5V. It can operate monocolour by mixing desired colors.

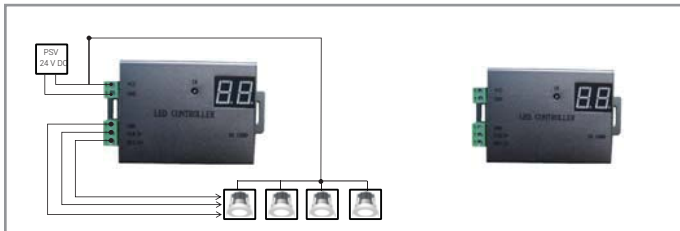
*It is suggested to use this product with a Cell Protocole. 5V PSV is necessary if DMX is going to be used.



2. FBR 705SB-12V

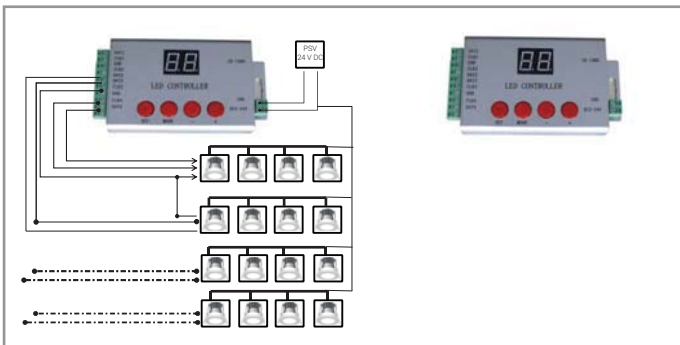
Single port output.Can control DMX 170 pixels ,Cell 4096 pixels. Up to 4 GB animation can be uploaded on a SD Card. Can be controlled by a remote controller. Ability to play only selected animation or all animations in sequence. It can operate monocolour by mixing desired colors. Adjustable brightness and speed. Easy animation coding. Input voltage is 6-24V.

*It is suggested to use this product with a DMX Protocole. 12V or 24V PSV is necessary in case of using with a Cell.



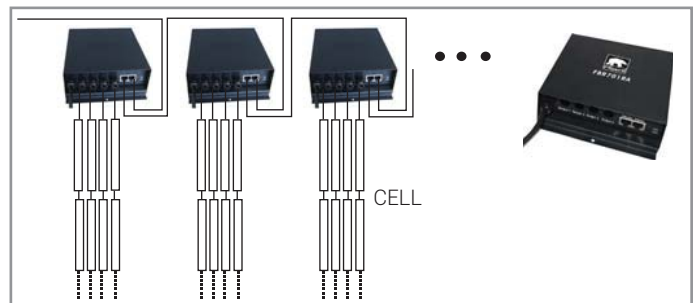
3. FBR 701SE

4 port outputs. Can control DMX 4x 170 pixels, Cell 4x20148=8192 pixels. Up to 4 GB animation can be uploaded on a SD Card. Ability to play only selected animation or all animations in sequence. Adjustable brightness and speed. Easy animation coding.Button available.



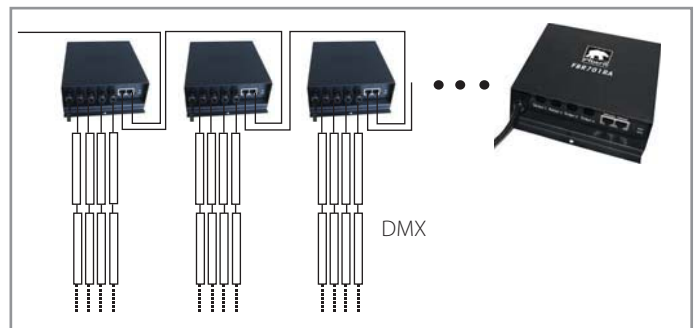
4. FBR 701RA

4 port outputs.Suggested for Cell products. It is a slave (can not operate by itself) control device which can be controlled by PC and Master controllers and can provide Cell 3412 piksel outputs and DMX 4x170 outputs in total.(With this device, DMX Decoder and DMZ buffer are needed for DMX Control) If PC control is desired, PC can control 100000 pixels. A maximum of 255 FBR 701RA can be connected one another in series. The distance between every slave controller can be max. 100m. Can also be controlled by master controllers such as FBR 702TB, FBR702TC, FBR 703TC..etc.



5. FBR 701RA - DMX

4 port outputs. Specifically made for DMX products. Includes decoder. Can provide Cell 3412 piksel outputs and DMX 4x170 outputs in total. (no need for a DMX Decoder or a DMX Buffer) Cell products. It is a slave (can not operate by itself) control device which can be controlled by PC and Master controllers. 100000 pixel can be controlled by PC. The distance between every slave controller can be max. 100m. Can also be controlled by master controllers such as FBR 702TB, FBR702TC, FBR 703TC..etc.





FRB Control Devices

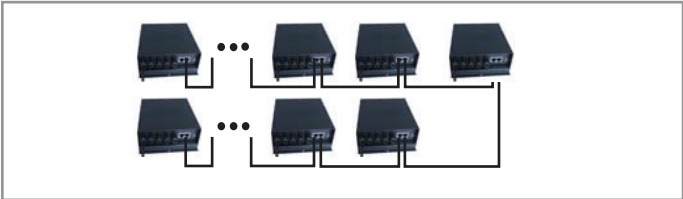
6. FBR 702TB

Two ethernet protocole outputs. Can provide Cell 30.720 pixel and DMX 30.720 pixel outputs that can operate offline by a programmable SD card. It is a master control device that max. 48 slave controller can be connected to it. Up to 4 GB animation can be uploaded on a SD Card. Ability to play only selected animation or all animations in sequence. Adjustable brightness and speed. Buttons are available. Ethernet cable length between main controller and slave controller can be 100m where as the fiberoptic cable length can be 2km.



7. FBR 703TC

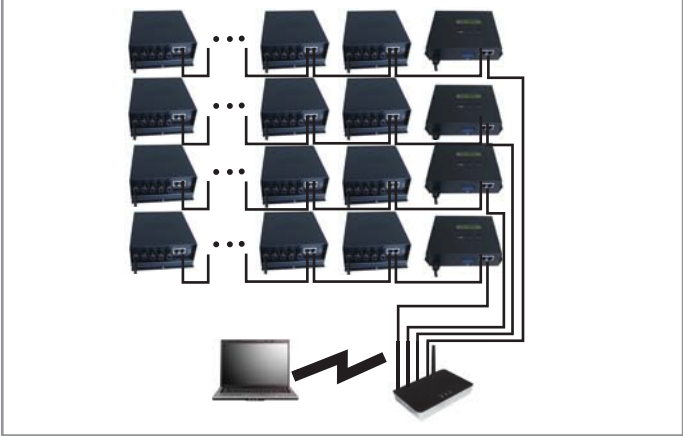
Two ethernet protocole outputs. Can provide Cell 122.880 pixel and DMX 170.000 pixel outputs that can operate online by a programmable SD card. It is a master control device that max. 255 slave controller can be connected to it. Up to 4 GB animation can be uploaded on a SD Card. Ability to play only selected animation or all animations in sequence. Adjustable brightness and speed. Easy animation coding. Ethernet cable length between main controller and slave controller can be 100 m where as the fiberoptic cable length can be 2 km. Controller starts running automatically with a SD card as soon as the ethernet cable is pulled out.



Connection with PC



Connection with FBR 703TC



8. FBR 704SA

4 port outputs. It can be programmed as 5 different settings; single, weekly, historical order, monthly and calender based. Can provide max. DMX 4096 pixel output. Up to 64 GB animation can be uploaded on a SD Card (SDHC). Buttons are available. Ability to play only selected animation or all animations in sequence. Easy animation coding. Adjustable brightness and speed.



9. FBR 701SD*

8 port outputs. DMX 8 x 170=13600 pixel output. It is a master control device. Up to 2 GB animation can be uploaded on a SD Card. Buttons are available.



PURL:	EN	LAT	DAT	CLK	EN	LAT	DAT	CLK	EN	LAT	DAT	CLK	EN	LAT	DAT	CLK
PWM:	DAT	CLK	DAT	CLK	DAT	CLK	DAT	CLK	DAT	CLK	DAT	CLK	DAT	CLK	DAT	CLK
DMX:	D+	D-	D+	D-	D+	D-	D+	D-	D+	D-	D+	D-	D+	D-	D+	D-
	PORT 1		PORT 1		PORT 1		PORT 1		PORT 1		PORT 1		PORT 1		PORT 1	

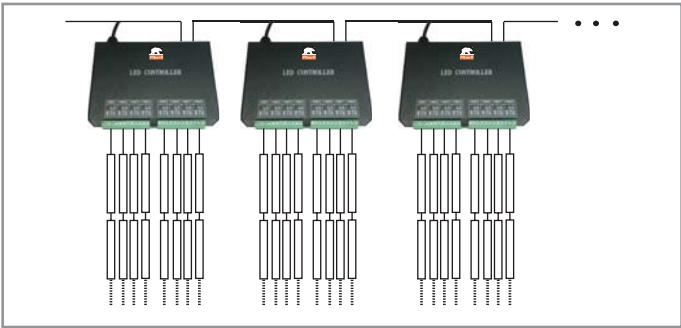
10. FBR 703SC*

2 port outputs. Cell 2 x 1024=2048 pixel output. Sound and rhythm sensitive master control device with a built-in microphone. Adjustable sensitivity, play mode and speed with a dip switcher on the device



11. FBR 701 RC

8 port outputs. Suggested to use DMX and Cell products. Can provide Cell 8192 piksel outputs and DMX 8x170 outputs in total. In order to use it, every single port output has to be set as 1,2,4,8. Slave (can not operate by itself) control device controlled by a PC or a master control device. If controlled by a PC, 100000 pixels can be supported. . A maximum of 255 FBR 701RA can be connected one another in series. The distance between each slave controller can be max. 100m. Can also be controlled by master controllers such as FBR 702TB, FBR702TC, FBR 703TC..etc.



*These are the control devices produced per order according to project requirements.



ST:41000198

RF 4 channel Warm- Cold White UK

Input Voltage : 12V-24V DC
Output Control : 2 circuits (WW-CW)
Controlling current : 6A/circuit
Connection method : Shared anode
Dimesion : 85x45x22mm
Remote controlled distance : 30 meter (outdoor)
Wifi Bridge

This controller controls white color temp. and light intensity .
Every control unit controls only one spot.



ST:41000198

RF 4 channel Warm- Cold White UK (button)

Input Voltage : 12V-24V DC
Output Control : 2 circuits (WW-CW)
Controlling current : 6A/circuit
Connection method : Shared anode
Dimesion : 85x45x22mm
Remote controlled distance : 30 meter (outdoor)
Wifi Bridge

This controller controls white color temp. and light intensity.
Every control unit controls only one spot.



ST:41000199

RGBW 4 Channel Remote Control

Input Voltage : 12V-24V DC
Output Control : RGB 3 channel/ RGBW 4 channels
Controlling current : 6A/circuit
Connection method : Shared anode
Dimesion : 120x52x20mm
Remote controlled distance : 30 meter (outdoor)
Programmes : 9 variation



ST:33600190

RF Color Temperature Remote Control

Dimmer, 1 Brightness setting: %100-1%,20 class brightness settings
2. color temperature options : 11 classes of color options
Wireless, intuitive ,touch screen remote control
Effective control distance : Approximately 30 m
Input/Output voltage : 12V-24V DC
Total output current : 12A
Output power : 12V<144W,24V<288W
Wifi Bridge



ST:33600191

RF LED Wireless Dimmer Remote Control

Dimmer,
100%-1%,50 class settings
Wireless, intuitive ,touch screen remote control
Effective control distance : Approximately 30 m
Input/Output voltage : 12V-24V DC
Total output current : 6A
Output power : 12V<72W,24V<144W
Wifi Bridge



ST:33600178

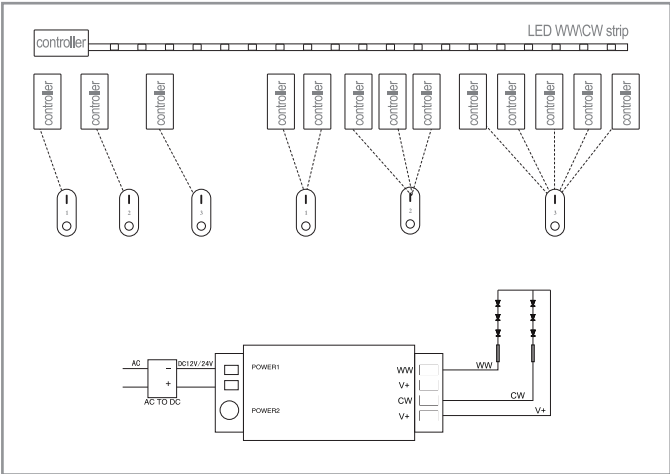
2.4 G Touchscreen LED RGB Remote Controller

RF 2.4 G 

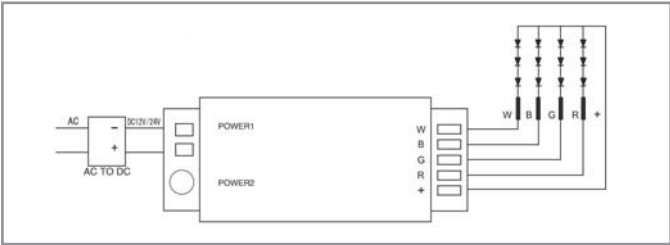
Dimmer

Wireless, intuitive ,touch screen remote control
Effective control distance : Approximately 30 m
Input/Output voltage : 12V-24V DC
Total output current : 18A
Output power : 12V<216W, 24V<432W
16 million color changes
Wifi Bridge

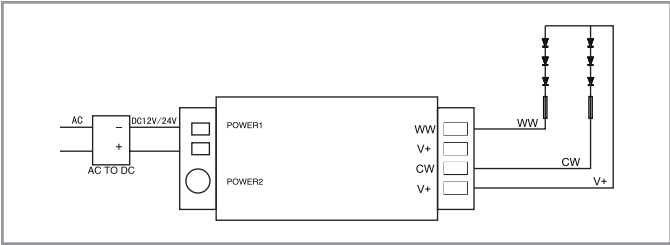
Electronic Systems



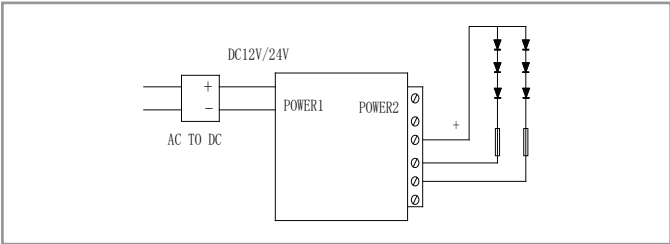
RF 4 Channel
Remote control of warm and cold.



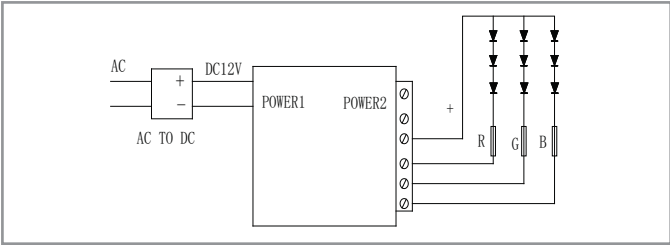
RGBW 4 Channel Remote Control
Grouping and connection Scheme



RF color temperature remote control
Connection Scheme



RF LED wireless dimmer remote control
Connection Scheme



Touchscreen LED RGB remote controller
Connection Scheme

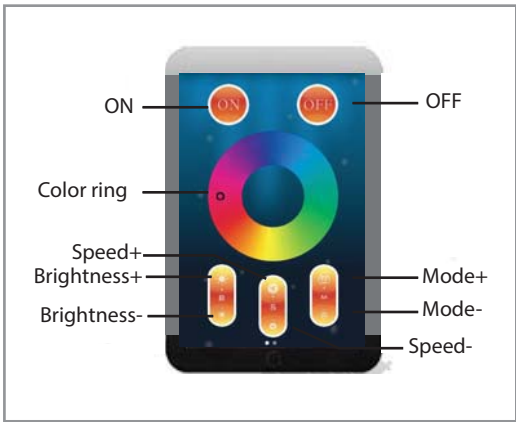


ST:41000106

WIFI BRIDGE
Connected by USB port or power adaptor
DC5V 500mA
Power: 2.3 Watts

It can be included in the home and work network. It is a bridge system that allows remote control products to be controlled over wifi system at the same time. It also allows to control with smart phones, tablets and internet with IOS-Android applications. The scheme for connecting with smart phones and lighting systems are below;

Iphone/ Ipad smart phone APP Android
2.2/IOS 5.0 üzeri







What is Madrix?

MADRIX is the LED lighting controller. It is a feature-rich and intuitive Windows software. The MADRIX software can produce a complete LED light show from a normal computer or laptop. It can drive tens of thousands of LEDs without problems. This powerful controller will not only allow you to control nearly any 2D LED display in every possible way, but real 3D LED applications as well. It can process any live audio signal and create stunning real-time lighting visuals. MADRIX software is a highly productive LED lighting control suite, pixel mapper, and voxel mapper. Cutting-edge technologies provide you with all the tools you need for modern LED control.

Madrix software;

MADRIX KEY ultimate: Activates output for up to 256 x 512 DMX channels (256 DMX universes / 131,072 DMX channels) and up to 1,310,720 DVI pixels (for example, 1280 x 1024). 3 real-time previews to show your visual effects in advance (incl. 2D/3D, zoom, rotation). 2 DVI outputs. Controls up to 4 color channels per pixel/voxel (e.g. 1-channel, 2-channel, RGB, RGBW fixtures).

MADRIX KEY professional: Activates output for up to 64 x 512 DMX channels (64 DMX universes / 32,768 DMX channels) and up to 786,432 DVI pixels (for example, 1024 x 768). Controls up to 4 color channels per pixel/voxel (e.g. 1-channel, 2-channel, RGB, RGBW fixtures)

MADRIX KEY basic: Activates output for up to 16 x 512 DMX channels (16 DMX universes / 8192 DMX channels). Variety of options to combine visuals and graphical elements (layers, mix modes, filters, etc.). Controls up to 4 color channels per pixel/voxel (e.g. 1-channel, 2-channel, RGB, RGBW fixtures). - Freely configurable Cue List for automated playback of a show (incl. time, date, duration, etc.). Supports Time Code from Art-Net, MIDI, SMPTE, and system time. Remote control available via DMX-IN, Art-Net Remote, Streaming ACN, MIDI-IN, HTTP (internet browser), CIP, MA-Net

MADRIX KEY entry: Includes 1 license for the software MADRIX. Activates output for up to 4 x 512 DMX channels (4 DMX universes / 2048 DMX channels). Already includes a multitude of stock effects that are fully customizable (in speed, color, shape, direction, size, movement, position, brightness, etc.) Supports media server features also: Conveniently load and play back images, pictures, and videos as well as live signal capturing, screen capturing, scrolling text (ticker), and more. Controls up to 4 color channels per pixel/voxel (e.g. 1-channel, 2-channel, RGB, RGBW fixtures). Includes various other tools and features (DMX Fader Tool, DMX Watcher, Matrix Generator, Patch Editor, Touch Screen window, backup system, scripting, mapping, scaling, etc.)

MADRIX KEY start: The software generates unique effects, visuals, and animations live and in real time. A normal PC/laptop can be used for professional LED control. Activates output for up to 1 x 512 DMX channels (1 DMX universe / 512 DMX channels). Allows mapping in 2D (pixel mapping) as well as real, spatial 3D (voxel mapping). Controls up to 4 color channels per pixel/voxel (e.g. 1-channel, 2-channel, RGB, RGBW fixtures)



Electronic Systems

MADRIX Hardware;



MADRIX LUNA 4 / 8 / 16: MADRIX LUNA is a Art-Net node or DMX512 USB interface. It distributes DMX512 data over long or short distances using Ethernet network or USB. 4, 8, or 16 XLR ports (5-pin, female) distribute the equal number of DMX universes per unit. 1 XLR port (5-pin, male) can be used for DMX input.



MADRIX NEBULA: MADRIX NEBULA directly connects to your LED pixels. This advanced SPI decoder receives control data over USB or Art-Net over Ethernet network. Directly connect to a wide range of supported LEDs via two 4-pin screw terminals. A signal frequency of up to 24 MHz is available. Supply power over USB (1x USB port) or 5 V to 24 V over a 2-pin screw terminal. Each device drives up to 1,360 RGB pixels.



MADRIX STELLA: MADRIX STELLA is a 2-port Art-Net node or DMX512 USB interface for solid-state projects. Directly connect DMX512 to the two 3-pin screw terminals to distribute 2 DMX universes per unit as input and/or output, eliminating the need for XLR connectors as a result.



MADRIX PLEXUS: MADRIX PLEXUS controls up to 2 universes via DMX512 or Art-Net as a versatile stand-alone interface or live controller. It is the first and only interface to offer stand-alone playback of MADRIX light shows and effects. Fully control 1024 DMX channels via MADRIX Software and use 2x DMX-OUT, 2x DMX-IN, 1x DMX-OUT and 1x DMX-IN, or Art-Net. The USB or the Ethernet connection can be used for live mode.



MADRIX NEO: MADRIX NEO hardware allows you to send or receive data via the MADRIX Software using 512 DMX channels. A male to male 3-pin or 5-pin XLR Gender Changer is required for DMX-IN. The USB 2.0 standard is fully supported to allow for a higher maximum speed of 480 MBit/s. Up to 60 NEOs can be connected to a USB host controller without having any frame rate problems. (60 DMX512 interfaces amount to 30,720 DMX channels.)

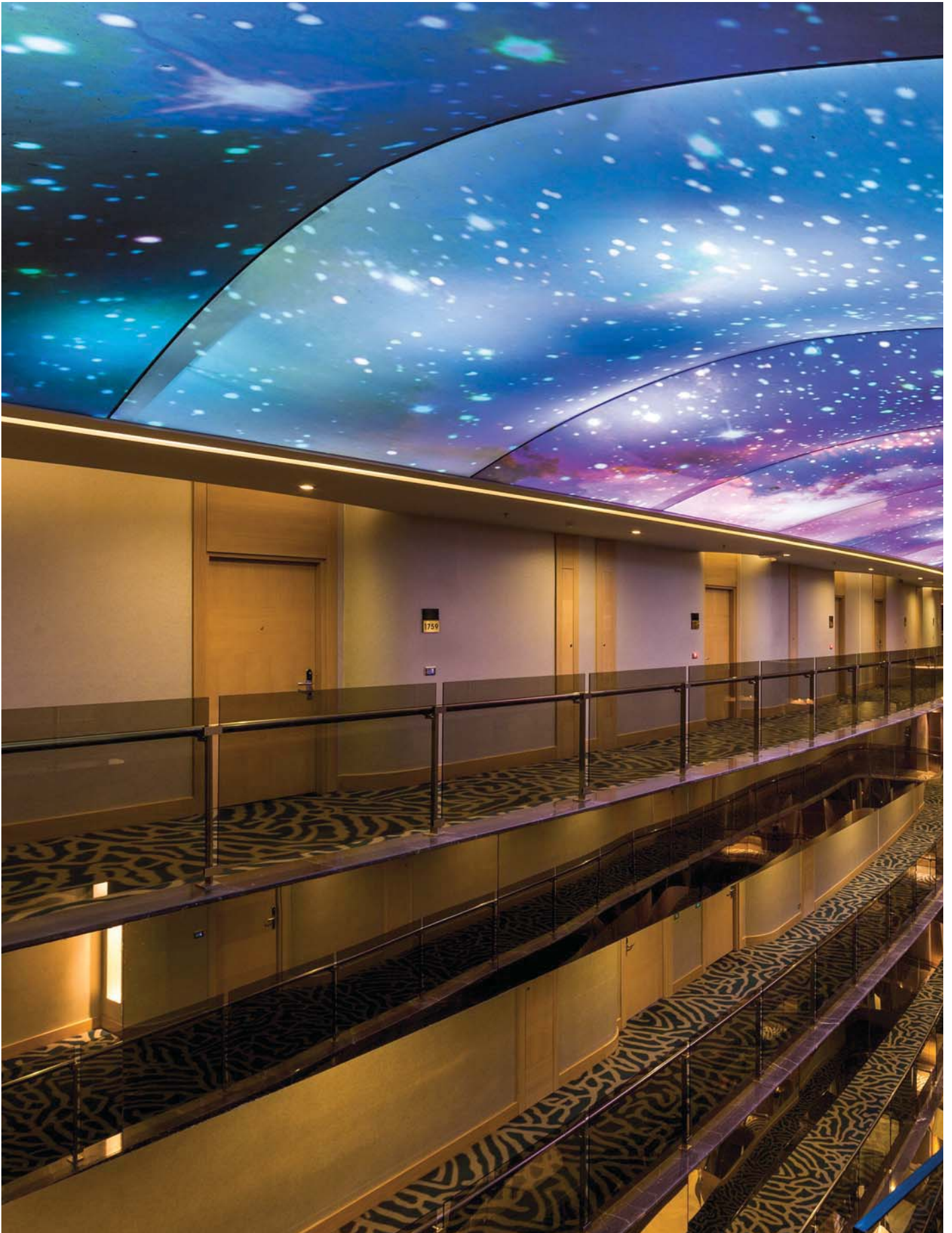


MADRIX USB contact closure

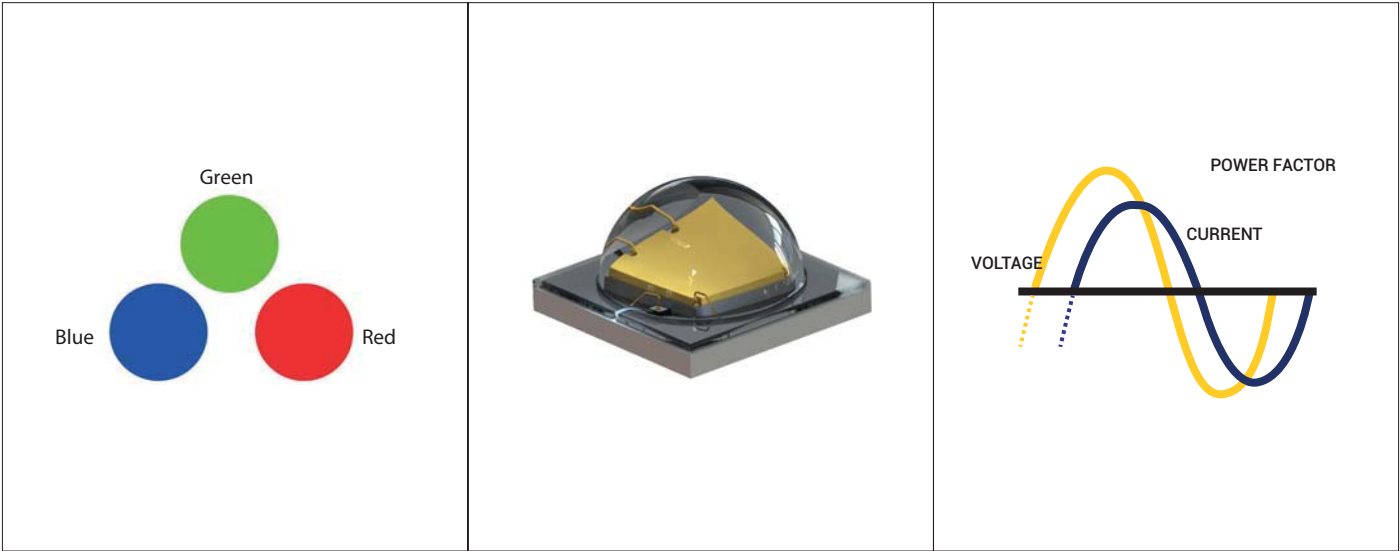
MADRIX USB temperature

MADRIX USB light sensor

MADRIX USB SMPTE



General and Technical Information

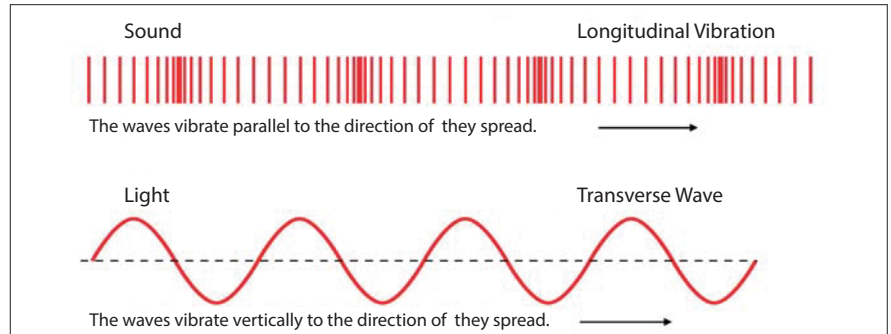


General and Technical Information

- Concept of Light
- Concept of Color
- Luminous Flux
- Light Intensity
- LUX
- Luminance
- LED Technology
- Power Factor
- Protection Class

1) Concept of Light

According to the wave theory, light is a form of electromagnetic energy (radiation) that can be perceived by human eye. It spreads in the form of wave or photon. Light has a particular frequency, speed and wavelength. By the continuum of electromagnetic waves arranged according to frequency and wavelength, electromagnetic spectrum is obtained.



• Natural sources of Light

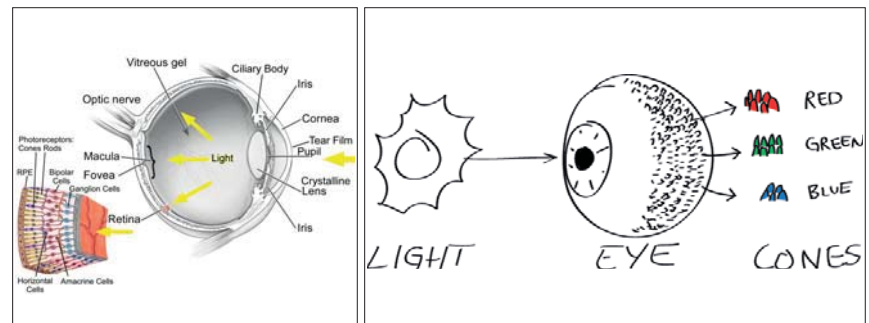


• Artificial sources of light



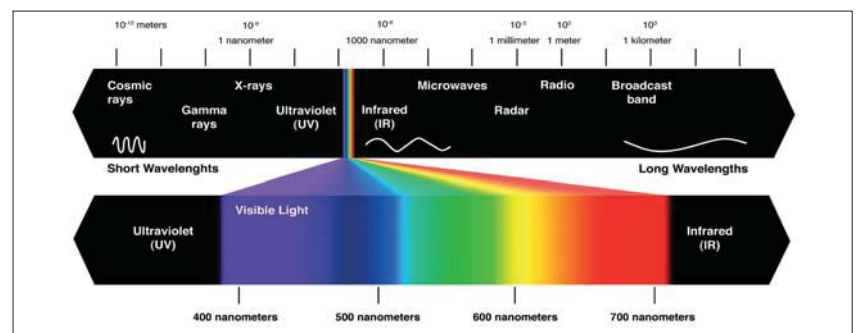
2) Concept of Color

Color is a perception that occurs when the light reaches the retina. This perception is characterized by the fact that the light strikes the material and is partly absorbed and partially reflected, which is called color tone or color. A photoreceptor cell is a specialized type of neuron found in the retina which converts light into electrical signals. There are two general types of photoreceptors, called rods and cones. And the 3rd cell type which is invented in 90's is "ganglion". The ganglion cells carry electrical signals generated by the photoreceptors cells to the visual center of the brain.



Visible Light:

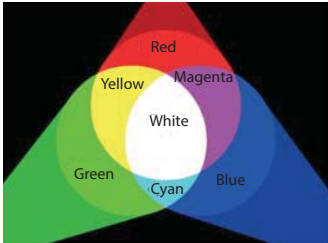
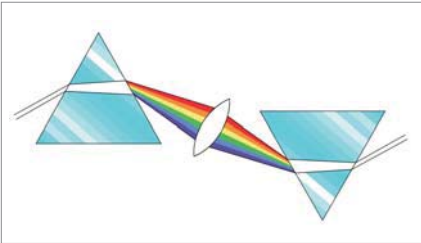
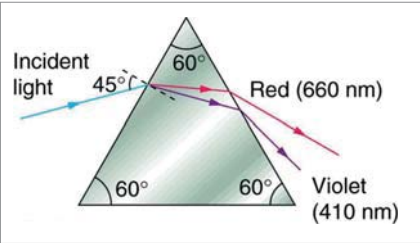
The electronic spectrum range that can be perceived by the human eye. This wavelength is referred as visible light or light. Even though the limits of the interval are not precisely defined, an average human can detect wave lengths between 400 and 700 nm.



General and Technical Information

• White Light:

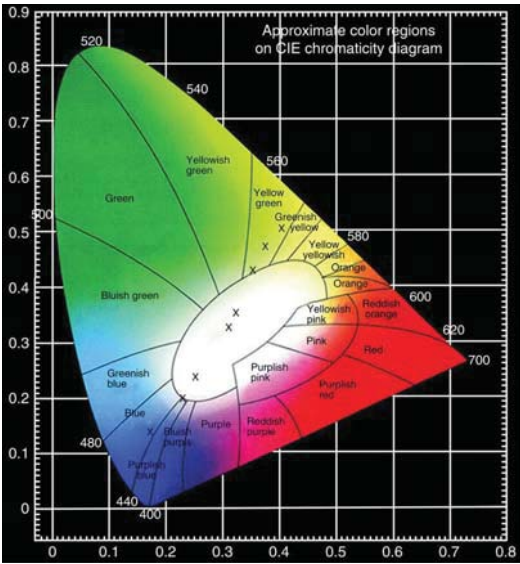
The white light is a mixture of the colors of the visible spectrum. The white light can be made by the combination of red light, green light and blue light. Another method of obtaining white light with LED is applying a phosphor layer on the LED which produces blue light.



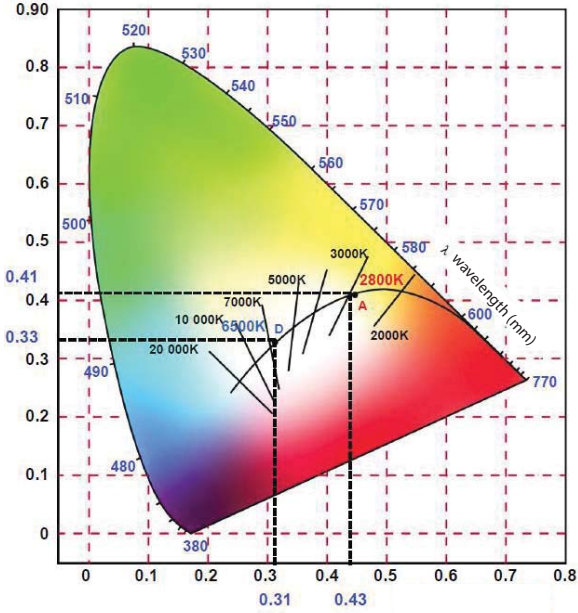
When all the wavelengths are merged, white light occurs again.

• CIE:

CIE Chromaticity Diagram

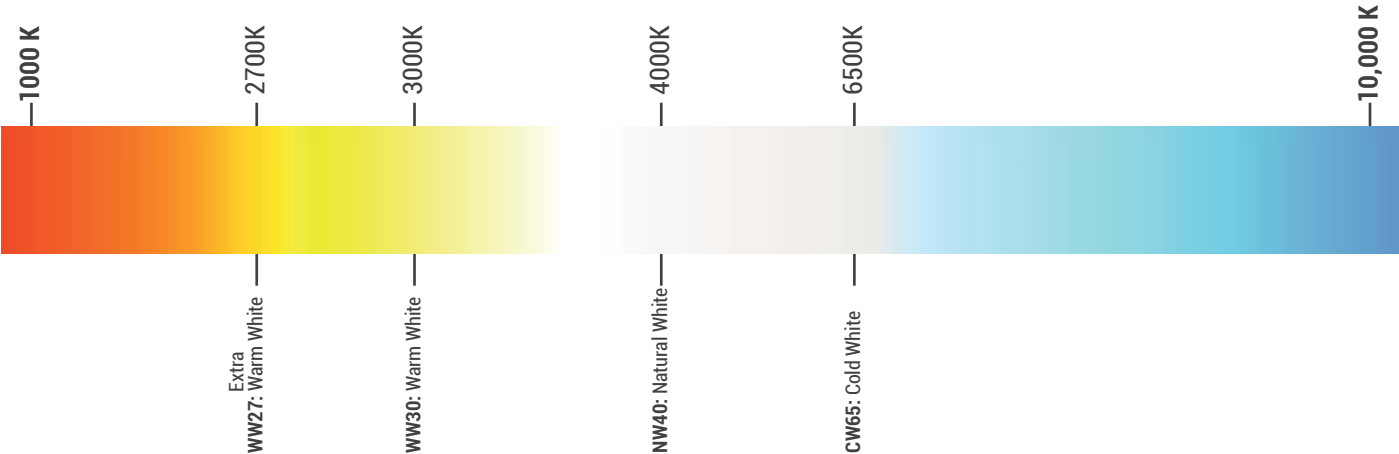


CIE Chromaticity Diagram - Planck Curve



• Color Temperature

Technically, It is a numerical value to the color emitted by a light source, measured in degrees of Kelvin. The Kelvin Color Temperature imagines a black object being heated to the point that the object will begin to glow. As it gets hotter its glowing color will shift from shades of red up to white hot. Color temperature has an effect on human psychology and appropriate color temperature should be chosen according to the properties and function of the place to be illuminated





General and Technical Information

• CRI Color Rendering Index:

Color rendering refers how close the color provided by an artificial light source can be to colors provided by an ideal or natural light source. CRI Index evaluates color between 0-100 as 100 is considered the CRI value of the daylight.CRI is also referred as Ra and this method evaluates 8 or 15 colors.



The Classification of CRI:

1A and 1B class lamps are used where accurate color matching and accurate color judgement is very important such as printing industry, museums, and art galleries.

2A and 2B class lamps are used where the moderate color rendering is enough and it is important to see the correct color or where the light will be continuously used.

3rd class lamps are used where accurate color rendering is less important but the color shifting is not acceptable.

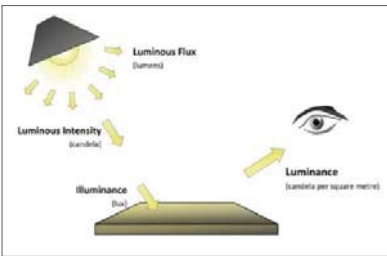
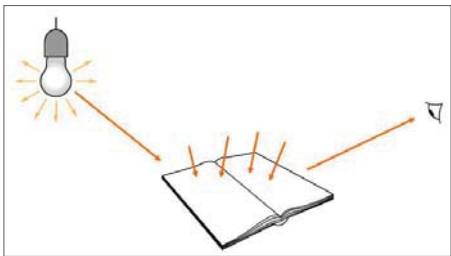
4th class lamps are used where accurate color rendering is not important or color shifting is acceptable.

CRI Class		Ra
Excellent	1A	Ra>90
	1B	80<Ra<90
Good	2A	70<Ra<80
	2B	60<Ra<70
Not Bad	3	40<Ra<60
Bad	4	20<Ra<40

General and Technical Information

3) Luminous Flux

Luminous flux is a quantitative expression of the brilliance of a source of visible light. It is the energy flow comes off of a light source and is evaluated according to the spectral sensitivity curve .



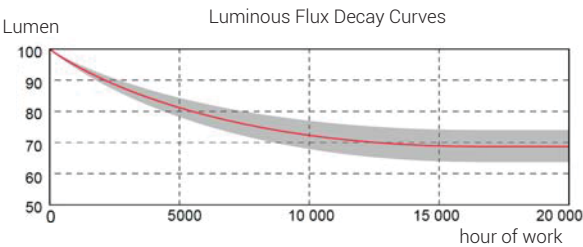
• Efficiency Factor:

There is not a constant ratio between the power of the light source draws from the network and the luminous flux. The ratio of luminous lux to power is called efficiency factor and is shown as lm/W. Efficiency factor may be different for LED itself and for the fixture.

$\frac{\text{LUMINOUS FLUX}}{\text{CONSUMED ELECTRICAL POWER}}$	→	EFFICIENCY FACTOR (lm/W)
---	---	------------------------------------

• Lifespan:

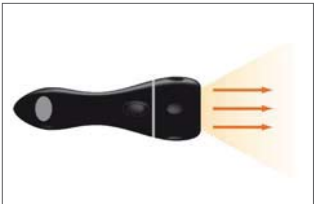
Indicates the average hours the lamp can be used under the specified standard conditions.



4) Light intensity

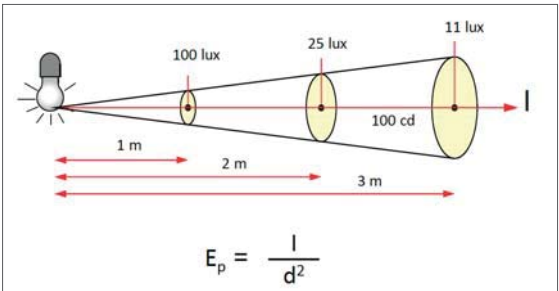
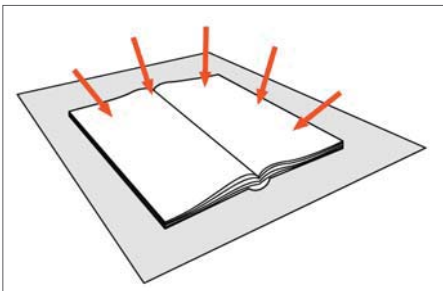
A measure of the amount of light that a point source radiates in a given direction. It is expressed by the luminous flux leaving the source in that direction per unit of solid angle. It is referred as "I" and the unit for light intensity is candela (cd)

Sample Values	
Candle	1 candela
100W incandescent	110 candela
Sun	3×10^{27} candela



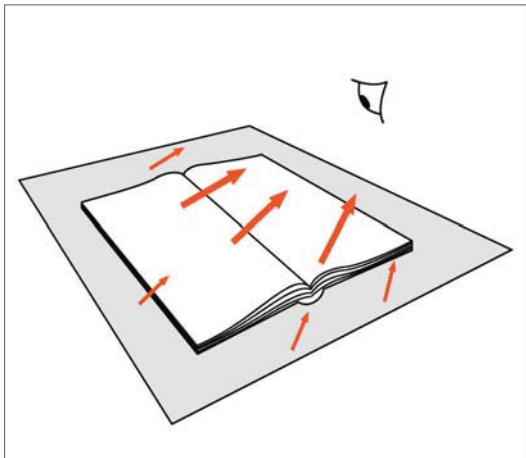
5) LUX

Luminous flux per unit area. Symbol is "E" and the unit is lux(lx).



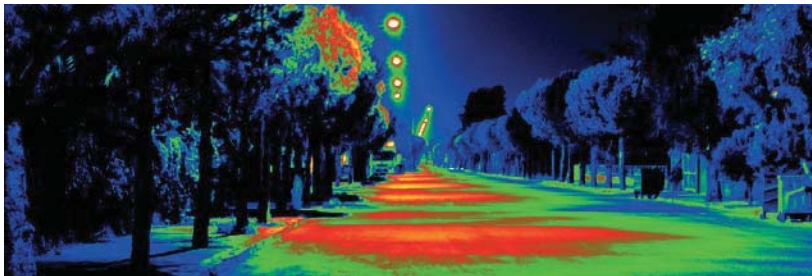
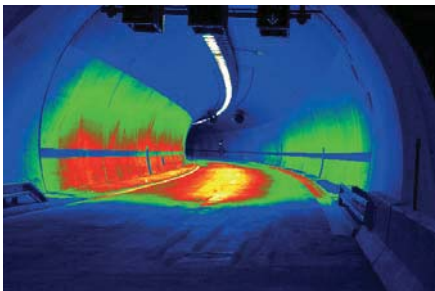
6) Luminance

It is a measure of the luminous intensity per unit area of light travelling in a given direction. Symbol is "L" and the unit is candela perm² (cd/m²).

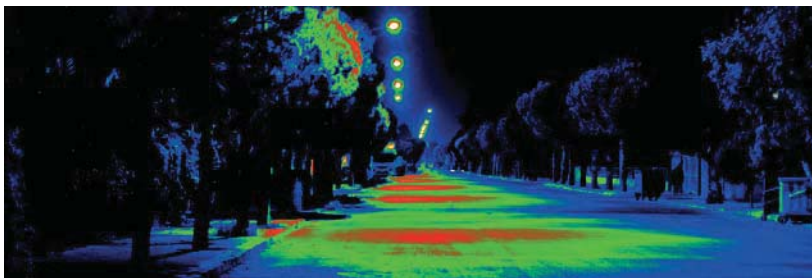


Luminance [cd/m²] Sample values	
Sun's Surface	1650 Mcd/m²
Incandescent Lamp	7 000 000 cd/m²
Blue / Overcast sky	2000/8000 kcd/m²
Fluorescent Lamp	5000-15000 cd/m²
Office Table	100 cd/m²
Road Illuminance	0.5 -2.0 cd/m²

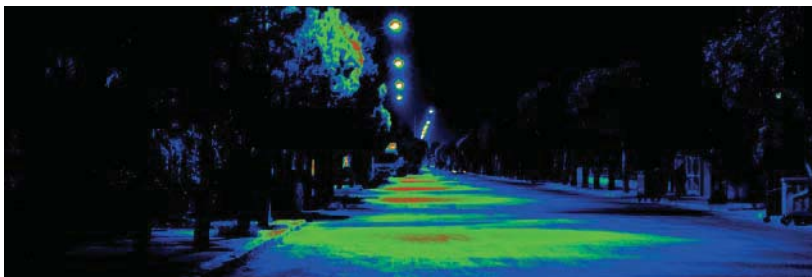
• Measurement



New system



one-year system



two-year system

General and Technical Information

7) LED Technology

LED stands for "Light Emitting Diode" and is the latest technology in energy efficient lighting. The first light emitting diodes were discovered in 1920 in Russia when a radio technician named Oleg Losev realized that the diodes used in the receiver of the radios were emitting light. Nick Holonyak was the one who developed the first LED (light emitted diode) to produce light.

LEDs are a semiconductor electronic circuit element developed after variety applications of filament technologies. They produce light by photons which are simply the light energy that negative electrons losing while running into a positively charged hole. Depending on the semiconductor, these photons have different wavelengths and wavelengths determine the light color a human eye can perceive. (400nm-700nm)

LEDs, as a light source, become a revolution that changed the traditional production structure of incandescent lamp dramatically with the advantage of its small dimensions allowing variety of different designs.

According to production and mounting options, different LED "package type"s are commercially available such as DIP (Dual In Package), High Power, SMD (Surface Mount device), COB (Chip On Board). The "package type" refers to the way LEDs semiconductor integrated circuit is packaged inside the LED.

LEDs last longer. Their lifespan can reach up to 100.000 hrs depending on the parameters they are designed for. The economical life for high efficiency LED products is over 50.000 hrs. Given the approximate lifespan is 50.000 hrs, a luminaire operated for 4 hrs a day has 35 years lifespan. Thus, the maintenance requirement is less than all other lighting requirements.

In contrast to traditional lighting, LED lights can be switched off and on frequently and without affecting the LEDs lifespan or light emission.

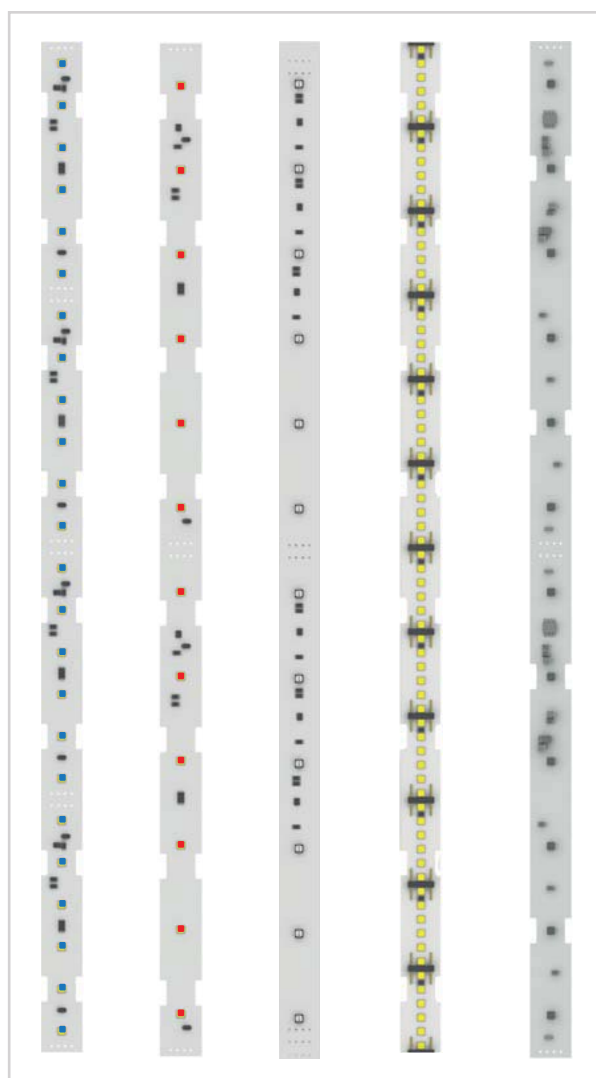
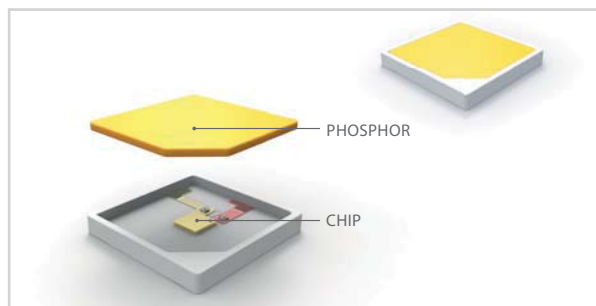
LEDs can withstand the tough conditions since they are durable, and resistant to shock, vibrations, and external impacts. Thus, they are great fit for outdoor or transportation lighting systems.

LED systems are more compatible with automation and control systems than other lighting systems. With low current and voltages, it can be dimmed within 0% and 100%, and any kind of animation can be applied with RGB, RGBA, RG-BW systems.

LED lighting features close to no UV emission because of their monochromatic structure and they do not harm organic or polymer materials and can be safely used for UV sensitive environments.

LEDs emit light in a specific direction. They are not diffused light sources, therefore they are more efficient and optical control is easier. It is possible to reach a light distribution of lower than 10 degrees and of higher than 180 degrees by using lenses and reflectors.

LEDs do not contain mercury as opposed to fluorescent lamps. Unlike metal halides and halogen lamps, they do not contain halogen. That being the case and with the addition of energy efficiency, LEDs are considered the most environmental light sources.

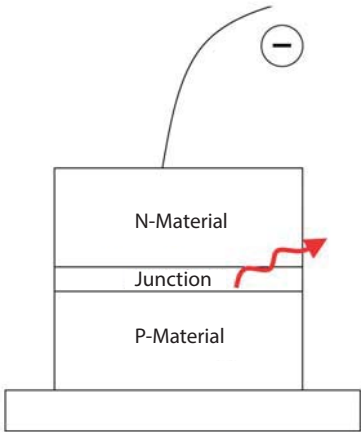
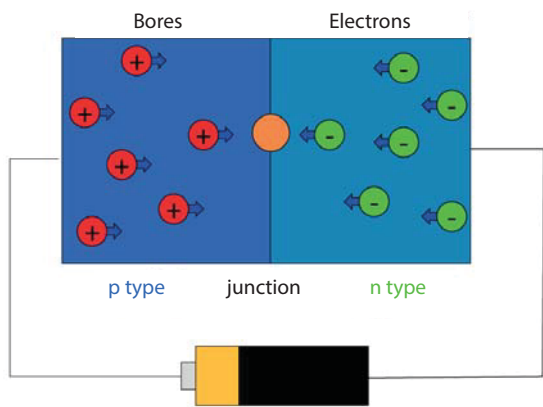




General and Technical Information

• How Does LED Work?

A LED is a small light bulb that easily fits into an electrical circuit. These light bulbs do not get hot and they are illuminated by the constant movements of the electrons located in the semiconductor material. The average light emitting diode does this through what is known as a “p-n junction”, which is formed of a p-type semiconductor (which contains positively charged carriers) and an n-type semiconductor (which contains electrons). The connection between these two types of semiconductors is known as a “p-n junction”. These junctions are the building blocks of every semiconductor electronic device. Light emitting diodes are modified in order to produce a form of light radiation, and the electrons from n-type semiconductors simply connect to the carriers in the p-type semiconductor, and the electricity flow is unidirectional: it is possible only from n to p, not the other way round. When the junction is formed, electrons located in the diode change their state and start to emit photons: electrons change their orbit by moving from a higher orbit to a lower one – when they do that, they automatically lose energy in the form of light. The more energy is lost, the more powerful the photons of light. This is when the color starts to change and light is being emitted by the LED.



• What does 50.000 hrs imply?

LED's life expectancy is approximately 50.000 hrs.

- 137 years of lifespan, if the light operates 1 hr.
- 68,5 years of lifespan, if the light operates 2 hrs.
- 34,2 years of lifespan, if the light operates 4 hrs.
- 22,8 years of lifespan, if the light operates 6 hrs.
- 17,1 years of lifespan, if the light operates 8 hrs.
- 11,4 years of lifespan, if the light operates 12 hrs.
- 5,7 years of lifespan, if the light operates 24 hrs.

LED Light Source: Economic Life

The amount of time that a minimum acceptable light is provided by a light source for a given application area. It is a useful tool for planning purposes.

General Illumination Applications: The standard is %70 of the original luminous flux. (L70)

Comparison between the lifespan of conventional lamps and LED

Light Source	Lifespan(hr)
Incandescent	750 - 2,000
Halogen	2,000 - 4,000
CFL	8,000 - 10,000
Metal Halide	7,500 - 20,000
Linear Fluorescence	20,000 - 30,000
LED White Light	50,000(L70)*

*LED systems do not dim down completely. After 50,000 hours, only 50% of the LEDs used still achieve 70% of their original luminous flux. Which means, black out is never an option with LED systems. However other light sources are unable to emit light at the end of their life cycle.

General and Technical Information

Advantages of LED;



Efficiency: LEDs produce more light per watt compared to incandescent and fluorescence.

Color: LEDs can emit the intended light color without the use of color filters which is required for conventional lighting methods.

Size: LED can be very small (smaller than 2mm) and can easily be mounted on circuit boards. This allows to design small fixtures.

Time: LED lights brighten up instantly. That makes it ideal for applications where lights should be switched off and on frequently as LED's lifetime or light emission are not affected by it.

Lifespan: LEDs have an outstanding operational life time expectation of up to 50.000 hours. Whereas fluorescence lights have an operational life time approximately 1000-2000 hrs and Incandescent bulbs have 10.000-15000hrs

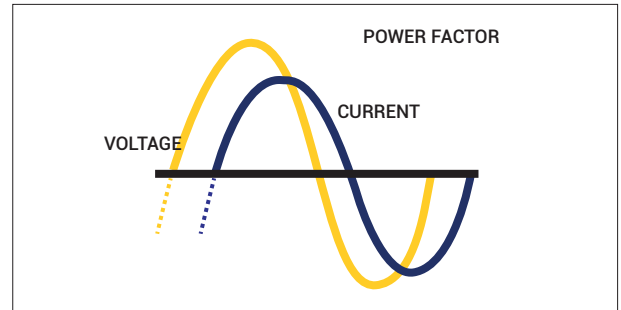
Resistance: Unlike fragile incandescent and fluorescence bulbs that have solid state components, LEDs have stronger external resistance.

Focus: LED is designed to focus its light and can be directed to a specific location without the use of an external reflector, achieving a higher application efficiency than conventional lighting.

Environment: LEDs do not contain mercury contrary to fluorescent lamps.

8) Power Factor

Power factor is the efficiency ratio of the energy used in the workplace and houses. power factor measurement indicates that all the incoming current is used to be reached to 1.0 value. A value of 0.80 indicates a 20% efficacy ratio. This means that only 80% of the incoming current does useful work and 20% is wasted through inductive equipment.



The Importance of Power Factor:

Power factor is the relationship (phase) of current and voltage in AC electrical distribution systems. Under ideal conditions current and voltage are "in phase" and the power factor is "100%." If inductive loads (motors) are present, power factor less than 100% (typically 80 to 90% can occur).

Low power factor, electrically speaking, causes heavier current to flow in power distribution lines in order to deliver a given number of kilowatts to an electrical load.

Power factor correction is the process of compensating for the lagging current by creating a leading current by connecting capacitors to the supply.

The benefits that can be achieved by applying the correct power factor correction are:

Environmental benefit.

Reduction of power consumption due to improved energy efficiency.

Reduced power consumption means less greenhouse gas emissions and fossil fuel depletion by power stations.

Reduction of electricity bills Extra kVA available from the existing supply Reduction of I²R losses in transformers and distribution equipment

Reduction of voltage drop in long cables.

Extended equipment life.

Reduced electrical burden on cables and electrical components.

Active PFC

Active PFC circuitry can boost power supplies up to PFC 0.99. With passive power factor correction, it may be around 0.75, and with active power factor correction, figures better than 0.95 may be expected. If there is a low power factor in the illumination, harmonic distortions would occur. In order to have power quality, the harmonic distortion must be low and the power factor must be high. International standards such as the EN54000-3-2/A2 set specifications for the power quality of electrical and electronic equipment thus the products that do not offer power factor correction option are not allowed in EU countries. According to IEC standards, similar restrictions may be prevailed in Turkey as well.

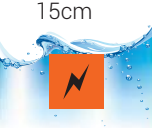
General and Technical Information

9) International Protection (IP) Classification

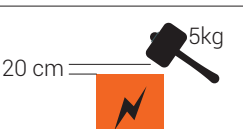
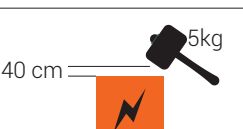
Solid Particule Protection

0		Not protected
1		Any object bigger than 50 mm
2		Any object bigger than 12 mm
3		Any object bigger than 2,5 mm
4		Any object bigger than 1 mm
5		Dust protected
6		Dust Tight

Liquid Particule Protection

0		Not protected
1		Dripping water
2		Vertically dripping water at an angle up to 15°
3		Water falling as a spray at any angle up to 60°
4		Splashing water
5		Water jets
6		Powerful water jets
7		Immersion up to 15 cm
8		Immersion beyond 1 m

IK- Mechanical Impact Resistance

00		No protection
01		0,150 Joule
02		0,200 Joule
03		0,350 Joule
04		0,500 Joule
05		0,700 Joule
06		1,00 Joule
07		2,00 Joule
08		5,00 Joule
09		10,00 Joule
10		20,00 Joule



Protection Against Electric Shocks

Class I



Items in this class have an earth circuit built in and an earth wire in the plug. Metal parts of the products could potentially cause a hazardous voltage if the basic insulation fails. This basically means that all metal parts of the products need to be earthed via the protective conductor. A Fault in the appliance should trip and over current device like a fuse or circuit breaker protecting the end user.

Class II



Electrical appliance of class II has two layers of insulating material surrounding live parts or reinforced insulation.

Class III



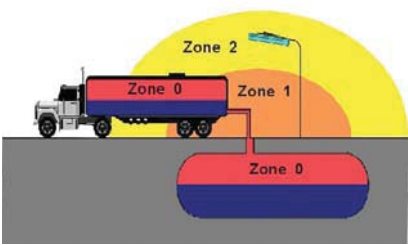
Electrical appliance of class II is designed to be supplied from safety extra-low voltage power source.

ATEX

In industrial establishments where explosive atmospheres such as gas, dust or flammable substances are present, they are special materials used with the aim of preventing the spark and arc explosion from electric appliances.

“ATEX” is an abbreviation for the ATEX Directive and is also short for “Atmospheres Explosives”. It is a set of regulations that are designed to ensure the safety of products being used in explosive environments. Explosive atmospheres are work areas that contain flammable gases, mists or vapours or by combustible dusts which a source ignition can cause explosion. These environments are called Exproof and the electrical apparatus designed to contain explosions or flames produced within them are called exproof electrical apparatus.

Exproof materials have to be used in any environment that an explosive ,air and a spark can easily come together and cause and explosion.



• ATEX Area Classifications/Zoning Definitions

Zone Class	Explosive atmosphere	Min. Equipment integrity Requirements	Sertification	94/9/EC Equipment Category
Zone 0 Zone 20*	An area in which an explosive mixture is present continuously or for long periods or frequently.	Equipment must be safe under normal operation, expected and rare malfunction.	Yes (ATEX)	Category 1
Zone 1 Zone 21*	An area in which an explosive mixture is likely to occur in normal operation.	Equipment must be safe under normal operation, expected and malfunction.	Yes (ATEX)	Category 2
Zone 2 Zone 22*	An area in which an explosive mixture is not likely to occur in normal operation and if it occurs it is for a short time	Equipment must be safe under normal operation	Yes (ATEX)	Category 3

*For hazardous areas involving dusts then the above classifications are prefixed with a "2", so zone 1 for dusts becomes zone 21.

Temp. Class	Max. Surface Temp. °C	Max Surface Temp. °F	Area	CENELEC/IEC EN 50014,IEC 79-0	Gases
T1	> 450 °C	842 °F	Mines	I	Metan
T2	300 - 450 °C	572 °F	Industrial Areas	IIA IIB IIC	Propan
T3	200 - 300 °C	392 °F			Aseton
T4	135 - 200 °C	275 °F			Etilen
T5	100 - 135 °C	212 °F			Hidrojen
T6	85 -100 °C	185 °F			Asetilen



General and Technical Information

10) Illuminance Levels

AREA	GENERAL (Lux)	SPECIAL (Lux)
OFFICES		
General offices	500	
Open offices	750	
Waiting rooms	200	
Corridors	200	
IT rooms/Comp. work stations	300	
SHOPPING/ RETAIL STORES		
Window	1000	
Mall	1000	
Additional Illumination by a spot	5000	
Other areas	500	
additional lighting by spot	2500	
Interior areas stores	300	
Bigger Stores	500	
Trade Centers	500	
Other Areas	250	
WAREHOUSE/STORAGE		
places that has lower circulation	25	
Factory Showrooms		
Bulk Storage	50	
Storage of small pcs.	100	
Storage of very small pcs.	200	
MUSEUMS		
Supplementary lighting for paintings		200
Supplementary l. for sculptures and other objects	400	
THEATRE		
Lounge/Foyer	200	
Theatre hall	50	
Orchestra	100	
SANCTUARY		
	80	
MOVIE THEATRE		
Entrance/Ticket Office	200	
Lounge	50	
Movie hall	100	
SPORTS ARENA		
Stadium	200	
Football arenas	100	
Recreational	25	
Tennis court	250	
Rink	15	
Rink Tournemant	40	
BAKERY		
Mixing	200	
Kneading	125	

AREA	GENERAL (Lux)	SPECIAL (Lux)
Fermentation rooms	125	
Preparation Area	200	
Baking/Oven rooms	150	
Cooling & Decoration	250	
Wrapping/Packaging	150	
MILLS		
Mixing	200	
Packaging	100	
Goods control	400	
Silo Cleaning	100	
TRAIN STATIONS		
Waiting Halls	100	
Ticket booths and offices	400	
Recreation rooms	150	
Luggage lockers/offices	200	
Platforms	100	
WC		
	100	
PARKING STATIONS		
Machine shop	250	
Working table	500	
Lubrication section	150	
Lubrication area	250	
Washing area	250	
Parking area	50	
Car showroom	400	
AUTOMOTIVE FACTORY		
Chassis manufacturing	200	
Chassis preparation	400	
Upholstery manufacture/assembly	300	
General components preparation and assembly	400	
Finish & Inspection area	750	
PAINTING FACTORY		
	150	1000
PRINTING		
Matrix making	400	
Type setting	200	
Colour inspection		1000
Printing areas	250	
Layout table	500	
PAPER GOODS		
Comparison areas	150	
Paper Machines	200	
Cutting areas	200	
Control labs.	400	



General and Technical Information

Illuminance Levels

AREA	GENERAL (Lux)	SPECIAL (Lux)
CHEMICAL INDUSTRIES		
Dryer, crystallization	150	
Furnaces, boilers..etc.	150	
Thickening tanks, nitration..etc.	150	
AIRCRAFT INDURSTIES		
Welding	250	
Spray booth	400	
Machining	400	
Detailed welding	250	2500
Assembly	400	
Finishing	400	
Wings and parts assembly	400	
AIRCRAFT HANGARS		
Testing and repair hangars	250	
Engine maintenance	400	
SOAP INDUSTRY		
Soap powder manufacturing	150	
Branding, packaging	150	
Moulding	250	
TOBACCO FACTORY		
Drying	150	
Preparation	150	
Inspecting and selecting		1000
Cigarette machines	400	
CANNED FOOD INDUSTRY		
Food Sorting	200	
Washing and cleaning	200	
Color sorting		1000
Separating necessary parts	300	
Boxing	300	
Boxing (manual)	200	
Empty box inspection		1000
Box welding	300	
Packaging	150	
MILK INDUSTRY		
Sterilization	150	
Pasteurization	150	
Mould Cleaning	150	
Cooling rooms	150	
Cream Section	150	
Bottle selection	200	
Bottle cleaning/washing	400	
Bottle filling	125	
Labs	400	

AREA	GENERAL (Lux)	SPECIAL (Lux)
SUGAR INDUSTRY		
Cutting Mixing	150	
Centrifuges – purification	150	
Color control	150	
Storing	150	
POWER PLANT		
Combustion air /gas plant	150	
Accumulator room	200	
Boiler maintenance room	400	
Front of the boilers	125	
Fuel supply plant	400	
OUTDOOR LIGHTING		
General Public areas		
Out of residential area, primary traffic road	20	
Main roads between municipalities	15	
Roads between municipalities	10	
Residential area		
Roads for fast circulation in the cities	20	
Nearby roads	20	
Tunnels(all day)	100	
Entrance illumination	1000	
Night illumination	30	
Industrial area, harbor, streets	10	
Expanded shores or bridges	10	
Commercial streets with traffic	10	
Commercial streets with less traffic	7,5	
Residential streets with traffic	7,5	
Residential streets with less traffic	5	
Important dead end streets	15	
Distribution stations	10	
Transportation areas	20	
Warehouse	20	
Observation Illumination	5	
Entrances	50	
Loading platforms	50	
GLASS MANUFACTURING		
Mixing and furnace	150	
Machining	150	
Cutting	200	
Polishing	200	
Chamfer	400	
Etching		1000
Control		1000



AREA	GENERAL (Lux)	SPECIAL (Lux)	AREA	GENERAL (Lux)	SPECIAL (Lux)
STEEL FACTORY			Dark color fabrics		
Rolling plant	150		Sewing	1000	
Pipe, tube, wire manufacturing	200		Light color fabrics	750	
Galvanizing	200		Dark color fabrics	1500	
Machine room	150		Coloring		
Quality Control	400		Separating, washing, cleaning	200	
BLAST FURNACE			Inspection, stain cleaning	1500	
Coal and mine yard	50		Ironing		
Loading	100		Machine or by hand	500	
Control	150		Folding	750	
Furnace flap maintenance	100		TEXTILE INDUSTRY		
Iron warehouse	50		Cotton		
Steel factory	150		Carding, winding	100	
SAWMILL			Spinning, weaving	200	
Rough sawing by machine	150		Milling	400	
High precision machining	200		Inspection		
Precision machining	400		Fixed parts	400	
WELDING			Fast moving parts	1500	
General Illumination	250		Silk and synthetic fabric	100	
Precision arc welding	2500		Working with dark color thread	750	
FOUNDRY			Weaving	400	
Core (precision)	350		Wool		
Core	200		Carding, winding	100	
Foundry hall	200		Inspection	400	
Cleaning	200		Spinning, sizing	200	
Control		1000	Milling		
SHOES FACTORY			White	200	
Cutting, Sorting	1000		Color	400	
Modeling	1000		CERAMICS INDUSTRY		
Cutting	1000		Grinding,Filtering,Drying	100	
Rubber preparation	125		Forming,Finishing ,Cleaning	150	
Glazing	200		Coloring,polishing	400	
Cutting, Hard Rubber	200		Precision coloring,polishing	750	
Sole preparation	400				
MACHINERY SHOP					
Rough dressing	250				
Finishing cut & polishing	400				
Detailed finishing cut	2500				
TEXTILE/ CLOTHING INDUSTRY					
Fabric inspection					
Light color fabrics	1500				
Dark color fabrics	2500				
Cutting/Ironing					
Light color fabrics	500				



11) Road Illuminance

Because the luminance design method depends on road surfaces being made visible by light reflected from roads, the reflection specifications of the pavement becomes critical for the lighting design process. The R tables refer to pavement reflection characteristics under dry road-surface circumstances only. The table is based on two specifications ; S1, the specularity of pavement shininess and Qo, the lightness of a road's surface. Aside from R tables, N tables are applied in countries that uses additional whiteners.

Road Class	q _o	S1	S2
R1	0.10	0.25	1.53
R2	0.07	0.58	1.80
R3	0.07	1.11	2.38
R4	0.08	1.55	3.03
N1	0.10	0.18	1.30
N2	0.07	0.41	1.48
N3	0.07	0.88	1.98
N4	0.08	1.61	2.84
CI	0.10	0.24	-
CII	0.07	0.97	-

Road Class Specification of Road Material

R1	Concrete surface,asphalt surface with a minimum of 15% of the aggregates composed of artificial brightener aggregates.
N1	
R2	A combination of diffuse and specular reflectances characteristic of asphalt surfaces with aggregate composed of a minimum
N2	of 60% gravel of size greater than 10 mm. Also asphalt surfaces composed of 10% - 15% artificial brightener in aggregate mix.
R3	Slightly specular reflectance typical of asphalt surfaces with dark aggregates, rough texture and some months of use.
N3	
R4	Mostly specular surface typical of very smooth asphalt texture.
N4	



General and Technical Information

International Lighting recommendations for motor traffic

Lighting Class	Description of the Road
M1	High speed roads with separate carriageways, motorways, express roads
M2	• Speed ≥ 90 km/h ; • Speed > 90 km/h ;
M1	High speed roads, district distributor roads, radial roads.
M2	• 50 km/h Speed 90 km/h
M3	• 50 km/h Speed < 90 km/h • Speed < 50 km/h;
M3	Urban traffic routes, local distributor roads, Residential major access roads.
M4	• Speed ≥ 50 km/h
M4	• Speed ≥ 50 km/h
M5	• Speed < 50 km/h
M5	• Speed < 50 km/h
M4	Residential Roads
M5	• 30 Hız ≤ 50 km/h
M5	• 30 Hız ≤ 50 km/h
M5	• Speed < 30 km/h
M6	• Speed < 30 km/h

Lighting Requirements for Motor Traffic

Lighting Class	L_{ort} (cd/m)	U_o	U_l	TI (%)	SR
M1	≥ 2.0	≥ 0.4	≥ 0.7	≤ 10	≥ 0.5
M2	≥ 1.5	≥ 0.4	≥ 0.7	≤ 10	≥ 0.5
M3	≥ 1.0	≥ 0.4	≥ 0.5	≤ 15	≥ 0.5
M4	≥ 0.75	≥ 0.4	≥ 0.5	≤ 15	≥ 0.5
M5	≥ 0.50	≥ 0.35	≥ 0.4	≤ 15	≥ 0.5
M6	≥ 0.30	≥ 0.35	≥ 0.4	≤ 15	$\geq -$



Park Living Homes, İzmir





Historical Fire Building, İstanbul



Catalogue Dictionary

Lenses

Configuration Codes

Electronic Control Accessories

Emergency Lighting Kit

Underwater Cable Joint

Light Color

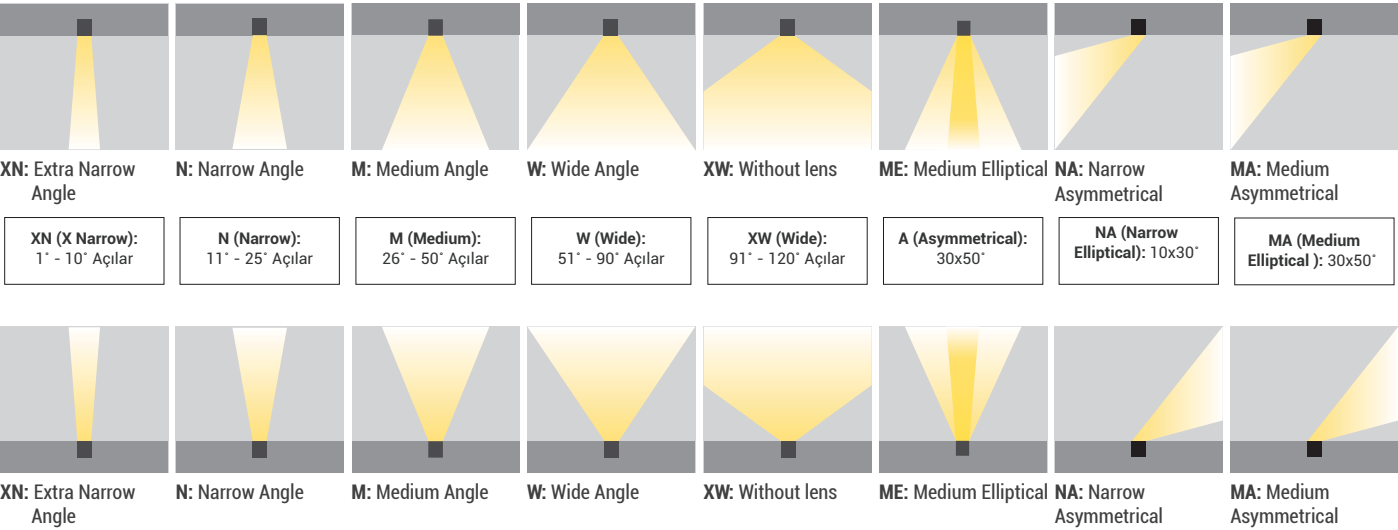
Power Ratings

Pictograms for Field of Application

Contact



Lenses



Configuration Codes



Configurations codes differ according to product options.
The configuration codes found in our catalogue are the ones we use in our order system in Fiberli.



Electronical Control Accessories

PWM (Pulse Width Modulation):

Pulse Width Modulation, or PWM, is a technique for getting analog results with digital means. Digital control is used to create a square wave, a signal switched between on and off. This on-off pattern can simulate voltages in between full on (5 Volts) and off (0 Volts) by changing the portion of the time the signal spends on versus the time that the signal spends off. The duration of "on time" is called the pulse width. To get varying analog values, you change, or modulate, that pulse width. If you repeat this on-off pattern fast enough with an LED for example, the result is as if the signal is a steady voltage between 0 and 5v controlling the brightness of the LED.

INV PWM (Invert Pulse Width Modulation):

It works as the inverse of the PWM signal.

DMX (Digital Multiplex) :

DMX is a lighting control protocol which allows users to have ultimate control over their lighting needs. DMX controls the lighting speed, dim level and color settings of luminaires by controlling master and slave devices which provides light animation. The DMX signal consists of 512 addresses and 170 channels can be controlled as RGB.

STD (Standard):

Non-controllable LED lighting products are called standard. They can only be turned on and off manually. Cannot be applied an external signal.

DALI (Digital Addressable Lighting Interface) :

Digital Addressable Lighting Interface and is a protocol set out in the technical standard IEC 62386. DALI was developed as an international industry standard for intelligent and easy management of lighting equipment.

0-10 V DIM:

It is an electronic lighting control signaling system. Low voltage 0-10V dimmers use a low voltage 0-10V DC signal connected to each LED power supply or Fluorescent ballast. 0-10V dimming applies a direct current voltage (DC) between 0 and 10 Volts to produce light at varying intensity levels. At 10V, the lights controlled by the dimmer are at 100% brightness. At 1V, the lights are at 10% measured brightness, which may actually be perceived as 32% brightness.

Triac:

The triac is a developed version of the thyristor. While the thyristor can only control current over one half of the cycle, the triac controls it over two halves of an AC waveform. Triacs are widely used in AC power control applications. They are able to switch high voltages and high levels of current, and over both parts of an AC waveform.

RC (Remote Control):

Radio-frequency (RF) remote controls transmit radio waves that correspond to the binary command for the button you're pushing. A radio receiver on the controlled device receives the signal and decodes it. The biggest advantage of radio-frequency remote control is of course the coverage which can be 30 meters. And also the signals can go through the solid objects such as walls.



Emergency Lighting Kit



41000550



41000550

Emergency Lighting Kit 3000mA 220V 3h (STL-ECK015W)

Input Voltage	: 220-240V ~50/60 Hz
Output Voltage	: 220V AC
Charging Time	: 24 hrs
Duration	: 3 hrs
Operating Temperature	: -5°C ... +50°C
IP Class	: IP20
Electrical Class	: Class 1
Battery	: Ni-Cd 12V / 3000 mAh
Dimensions	: 120 x 200 x 53 mm



41000549



41000549

Emergency Lighting Kit 3000mA 12-60V 3h (STL-ECK034W)

Input Voltage	: 220-240V ~50/60 Hz
Output Voltage	: 220V AC
Charging Time	: 24 hrs
Duration	: 3 hrs
Operating Temperature	: -5°C ... +50°C
IP Class	: IP20
Electrical Class	: Class 1
Battery	: Ni-Cd 6V / 3000 mAh
Dimensions	: 120 x 200 x 33 mm



41000548



Emergency Lighting Kit 3000mA 24V 3h (STL-ECK010W)

Input Voltage	: 220-240V ~50/60 Hz
Output Voltage	: 24V DC
Charging Time	: 24 hrs
Duration	: 3 hrs
Operating Temperature	: -5°C ... +50°C
IP Class	: IP20
Electrical Class	: Class 1
Battery	: Ni-Cd 6V / 3000 mAh
Dimensions	: 120 x 200 x 33 mm

Underwater Cable Joint



33600463
Single Outlet Joint

Cable diameter w/adaptor	: Ø6 - Ø9
Cable diameter w/o adaptor	: Ø10 - Ø12
IP class	: IP68
Nominal Current and Voltage	: 16A / 250V AC
Operating Temperature	: -15° ... +60°C
Wiring	: Max. three-pole



33600464
Dual Outlet Joint

Cable diameter w/adaptor	: Ø6 - Ø9
Cable diameter w/o adaptor	: Ø10 - Ø12
IP class	: IP68
Nominal Current and Voltage	: 16A / 250V AC
Operating Temperature	: -15° ... +60°C
Wiring	: Max. four-pole



34601735
Type I

Cable diameter w/adaptor	: 7.0 mm - 12.0 mm
IP class	: IP68 / 5bar
Nominal Current and Voltage	: 17.5A 450V
Operating Temperature	: -40° ... +125°C
Wiring	: Max. four-pole



Underwater Cable Joint



Cable diameter (min.-max.) : 0,5mm - 2mm
IP class : IP68 / 5bar
Operating Temperature : -30° ... +80°C
Wiring : Max. five-pole



Max. Cable diameter : 3x1,5mm² - 5x1,5mm²
Min. Cable diameter : 3x4mm² - 5x2,5mm²
IP class : IP68 / 2bar
Nominal Current and Voltage : 250V AC
Operating Temperature : -20° ... +125°C
Wiring : Max. 5 Kutuplu



Max. Cable diameter : 2.5 mm²
Minimum Cable diameter : 5,5 mm
Maksimum Cable diameter : 8,5 mm
IP class : IP68
Nominal Current and Voltage : 16A / 250V AC
Operating Temperature : -40°C ... +105°C
Wiring : Max. three-pole

Light Color

Standard products may be produced according to the following Kelvin temperatures.

Standard Monocolor products;

● WW30: Warm White	3000K
● NW40: Natural White	4000K
● CW65: Cold White	6500K

May be a deviation of ±200K

Custom Monocolor products;

● WW22: Extra Warm White	2200K
● WW24: Extra Warm White	2400K
● WW27: Extra Warm White	2700K
● CW50: Extra Cold White	5000K

May be a deviation of ±200K

Please contact your customer representative on feasibility of color temperature values.

Polimer applied products;

● WW27: Extra Warm White	2650K-2850K
● WW30: Warm White	3000K-3400K
● NW40: Natural White	3600K-4500K
● CW65: Cold White	6500K-7200K

Can be between the values above.

Standard Monocolor products with other color options.

● R: Red	625nm
● G: Green	525nm
● B: Blue	465nm
● A: Amber	590nm

May be a deviation of ±5nm

Power Values

All standard products may be produced in different power options. With the developments in LED technology the power values are constantly decreasing and the efficiency is increasing. On the other hand the power options may vary according to color tone.

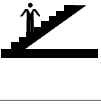
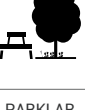
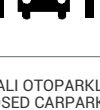
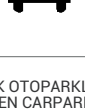
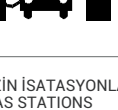


While WH284 CW consumes 210W,
WH284 Amber consumes 150W



While AC5N 12-24V CW consumes 210W,
AC5N 12-24V Blue consumes 150W

Pictograms for Field of Application

						
AYNA ÜSTLERİ MIRROR TOPS	MAKYAJ ODALARI MAKE UP ROOMS	RESİM VE TABLOLAR PAINTINGS	DEKORATİF OBJELER DECORATIVE OBJECTS	YATAK BAŞLIKLARI BED HEADS	VİTRİNLER SHOWCASES	MAĞAZALAR STORES
						
BUTİKLER BOUTIQUES	OFİSLER OFFICES	OTELLER HOTELS	OKULLAR SCHOOLS	KORİDORLAR AISLES	TOPLANTI SALONLARI MEETING HALLS	RESTORAN / CAFE RESTAURANTS / CAFE
						
ALIŞVERİŞ MERKEZLERİ SHOPPING CENTERS	MARKETLER MARKETS	STADYUMLAR STADIUMS	KAPALI SPOR SALONLARI CLOSED SPORT COMPLEXES	AÇIK SPOR SALONLARI OPEN SPORT COMPLEXES	MERDİVENLER STAIRS	BALKONLAR BALCONIES
						
EVLER HOUSES	BİNA CEPHESİ FACADES	PLAZALAR/İŞ MERKEZLERİ PLAZA/BUSINESS CENTER	BİNA ÇEVRESİ BUILDING SURROUNDINGS	PARKLAR PARKS	MEYDANLAR SQUARES	HAVAALANLARI AIRPORTS
						
OTOYOLLAR HIGHWAYS	ŞEHİR YOLLARI URBAN ROADS	FİSKİYE FOUNTAIN	YÜZME HAVUZLARI SWIMMING POOL	JAKUZZİ JACUZZI	SAUNA	WC / BANYOLAR SHOWERS
						
FABRİKA VE ATÖLYELER PLANTS WORKSHOPS	LABORATUVARLAR LABORATORIES	GEMİLER SHIPS	SANAYİ TEŞİSLERİ INDUSTRIAL PLANTS	TÜNELLER TUNNELS	AÇIK DEPOLAR OPEN WAREHOUSES	KAPALI DEPOLAR CLOSED WAREHOUSES
						
AMELİYATHANELER OPERATION ROOMS	ENDÜSTRİYEL MUTFAKLAR INDUSTRIAL KITCHENS	ŞANTİYELER CONSTRUCTION SITES	KAPALI OTOPAKLAR CLOSED CARPARKS	AÇIK OTOPAKLAR OPEN CARPARKS	BENZİN İŞTASYONLARI GAS STATIONS	ISLAK WET



TecoLED



TECOLIGHT
Lighting Design Studio



/pslfiberli



/pslfiberli



fiberli_led_lighting



/psl-electronic

www.fiberli.com