

FROST



BIM
ready

... for cold stores and freezing facilities with temperatures down to -25 °C, MultiLumen

USE

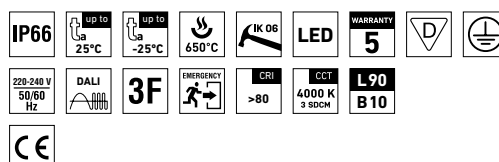
Temperatures of chilled foods range from 0–5 degrees, whilst in freezing facilities can drop up to -25 degrees Celsius. Suitable luminaires for such demanding environments must handle extreme low temperatures, withstand condensation and vapors, have low maintenance and long service life to keep costs low.

Our lighting fixture for freezing storage and chilled storage surroundings is made of ABS material, is weather-proofed and chemically resistant (IP66 and IK 06).

FROST provide with high quality and good solution enduring a long service life of 50 000 hours.

ADVATAGES

- Light fitting protection IP66
- Minimum ambient temperature down to $t_a = -25\text{ °C}$
- Lifetime: 50,000 hours / L90B10
- Lifetime: 100,000 hours / L80B10
- Diffuser: translucent acrylate (AC), UV stable, chemically resistant
- Body: dark grey ABS, UV stable, chemically resistant
- Constant luminous flux even in ambient temperatures up to -25 °C
- **MultiLumen (ML)** function enables simple switching between up to four luminous fluxes via driver's DIP switch.
- Standard model - CRI > 80: 4000 K
- At request CRI > 80: 3000 K, 5000 K, 6500 K, CRI > 90: 3000 K, 4000 K
- It can be delivered in dimmable or emergency version
- Through-wiring of up to 5 wires at body
- Certification: CE

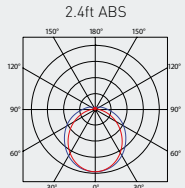
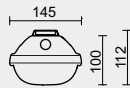
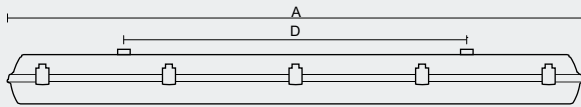


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TECHNICAL DESCRIPTION

- Light fitting protection: IP66
- Minimum ambient temperature: $t_a = -25\text{ }^\circ\text{C}$, Minimum ambient temperature: $t_a = -20\text{ }^\circ\text{C}$ (version with emergency back-up M1hAt)
- Maximum system efficacy: 157 lm/W
- The watt and lumen values can vary by $\pm 7,5\%$
- Standard model - CRI > 80: 4000 K
- MacAdam = 3 SDCM
- Lifetime: 50,000 hours / L90B10
- Lifetime: 100,000 hours / L80B10
- Diffuser: translucent acrylate (AC), UV stable, chemically resistant
- **MultiLumen (ML):** luminous flux variable in up to 4 steps. In the standard version preset maximum luminous flux
- Body: dark grey ABS, UV stable, chemically resistant
- Reflector: steel sheet, white colour (RAL 9003)
- Clips: polyamide + 15% glass fibre
- Sealing: polyurethane (PUR), foamed body groove
- Cable glands: screwed PG 13.5
- Distance part: polyamide + 10% glass fibre
- Terminal block: screwless, three-pole (basic version)
- Installation: package contains stainless hooks and stainless brackets
- Electric equipment: LED modules, current driver



Type	Max. ambient temperature [°C]	Luminous flux of LED modules [lm]	Preselected Step 1 of MultiLumen function			Net weight [kg]	A [mm]	D [mm]
			Luminous flux of light fitting [lm]	Power consumption [W]	System efficacy [lm/W]			
For ambient temperature down to $t_a = 25\text{ }^\circ\text{C}$ - body: dark grey - diffuser: translucent acrylate								
FROST 2.4ft 6400/840 *	-25	6520	5740	38,4	149	2,25	1172	700
FROST 2.4ft 8800/840 *	-25	8980	7900	52,8	150	2,25	1172	700
FROST 2.5ft 8000/840 *	-25	8330	7330	48,3	152	2,75	1452	940
FROST 2.5ft 11000/840 *	-25	11260	9910	64,7	153	2,75	1452	940

*) Also available with MultiLumen function:

Type	MultiLumen function								
	Step 2			Step 3			Step 4		
	Luminous flux of light fitting [lm]	Power consumption [W]	System efficacy [lm/W]	Luminous flux of light fitting [lm]	Power consumption [W]	System efficacy [lm/W]	Luminous flux of light fitting [lm]	Power consumption [W]	System efficacy [lm/W]
FROST 2.4ft 6400/840 ML	4970	32,9	151	4190	27,4	153	3400	22,0	155
FROST 2.4ft 8800/840 ML	6860	44,9	153	5800	37,4	155	4700	30,1	156
FROST 2.5ft 8000/840 ML	6350	41,5	153	5380	34,6	155	4350	27,9	156
FROST 2.5ft 11000/840 ML	8580	55,6	154	7230	46,3	156	5860	37,4	157

The emergency version "M1hAt" operates in a temperature range of -20 to +25°C without the need to heat the battery.

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Non-dimmable driver - plastic clips

Code	Type	3F	M1hAt	3F M1hAt
103095	FROST 2.4ft 6400/840 ML	103101	111759	111763
103096	FROST 2.4ft 8800/840 ML	103102	111760	111764
103098	FROST 2.5ft 8000/840 ML	103104	111761	111765
103099	FROST 2.5ft 11000/840 ML	103105	111762	111766

LEGEND

- 3F** - 3-phase 5 core through-wiring in the luminaire
- M1hAt** - emergency back-up source with 1 hour operating time for maintained emergency illumination with battery autotest
- 3F M1hAt** - 3-phase 5 core through-wiring in the luminaire (L3 used for emergency unit unswitched power supply)

LIGHT FITTING ATTACHMENT

- a) Directly to a ceiling or a wall with the use of screws and stainless brackets
- b) Suspension with the use of stainless hooks
- c) Attachment with the use of side hangers to the wall - is not included in accessories

**LIGHT FITTING DETAILED VIEW**

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