

Explosive-proof luminaire

CFN-02 LED



CFN-02 LED II 3D Ex tc IIIC T70°C Dc

		EN IEC 60598	RoHS	IP65	IK10		- 25°C ÷ ... +45°C +5...+45°C (EM)	WARRANTY 5 years	MAX 46W LED
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General specifications

Product name	CFN-02 LED									
Application	<p>The CFN-02 LED luminaire is designed for use in environments with combustible dust in conductive dust zones (Zone 22), with an ambient temperature range of -25°C to +45°C. Ambient temperature range -25°C to +45°C (+5°C to +45°C with emergency kit).</p> <p>It is suitable for use in harsh environments where robustness and performance are key requirements. This is the best option for humid environments. It meets all the requirements of the IP65 protection standard, ensuring protection against dust and moisture. The polycarbonate diffuser has high resistance to deformation and mechanical impact, rated IK10.</p>									
Advantages	<ul style="list-style-type: none"> - Energy savings - Easy installation and maintenance - Reduced maintenance costs - No interventions are needed to replace the light sources during operations. 									
Protection against dust and water (IP)	IP65									
Light source	<p>LED modules, neutral white color temperature 4000K, CRI≥80, with lifetime at Ta=25°C.</p> <table border="1"> <thead> <tr> <th colspan="3">B10</th> </tr> <tr> <th>L80</th> <th>L90</th> <th>L70</th> </tr> </thead> <tbody> <tr> <td>>80.000 hours</td> <td>>80.000 hours</td> <td>>80.000 hours</td> </tr> </tbody> </table>	B10			L80	L90	L70	>80.000 hours	>80.000 hours	>80.000 hours
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L80	L90	L70								
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Operating temperature range	-25°C ÷ +45°C +5...+45°C (EM)									
Warranty	5 years									

Electrical specifications

Nominal voltage	230 Vac
Frequency (Hz)	50-60 Hz
Power factor	≥0,95

Technical specifications

Housing	UV-resistant polycarbonate (PC), offering high impact and deformation resistance, and providing good protection against dust and water.
Diffuser	Transparent UV-resistant polycarbonate (PC), with an interprismatic structure to ensure optimal light distribution.
Reflector	Steel
Screw cable-gland	PG13 ATEX
Maximum conductor section	2.5mm ²
Connectors	3-pole connector with grounding
Cable diameter	ø7 ÷ ø13mm
Protections	Stainless steel and fiberglass-reinforced nylon, diffuser fasteners
Explosion protection	II 3D Ex tc IIIC T70°C Dc
Equipment dust ignition protection by enclosure "t"	tc
Color	Gray

Mounting

- Stationary installation in a suspended position.
- Individual or sequential connection.
- If the lighting fixtures are to be exposed to chemical vapors in the surrounding atmosphere that may affect plastic materials, please contact the manufacturer regarding chemical resistance.

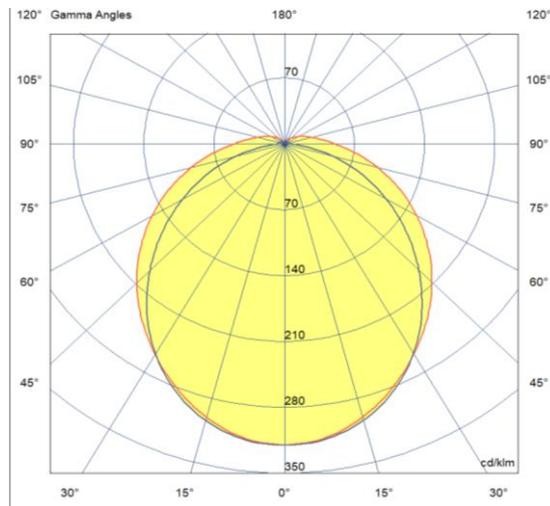
Standards and certifications

Standards	<ul style="list-style-type: none"> - EN IEC 60598-1 - EN 60079-0 - EN 60079-31 - EN IEC 60598-2-1 - EN IEC 60598-2-22
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In compliance with European Directives:

- RoHS Directive, WEEE Directive
- Directive 2014/34/EU "Equipment and protection systems used in potentially explosive atmospheres - ATEX"
- HG 245/2016

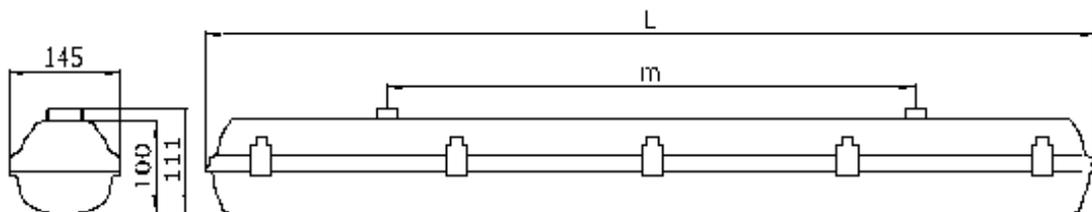
Photometric data



Light intensity distribution curve [Cd/1000 lm]

Dimensional characteristics

CFN 02-LED



Product type	L [mm]	m [mm]	l [mm]	h [mm]
CFN-02 LED 1200	1272	700	145	111
CFN-02 LED 1500	1572	700	145	111

Annex-product codes

Product type	Code	Nominal voltage/frequency [V/Hz]	Nominal power [W]	Power factor	Protection degree	Class of Protection Against Electric Shock	IK	Weight [Kg]	Total Net Flux [lm]	Net Luminous Efficiency [lm/W]
CFN 02 LED EX 6180LM 38.3W 840 1.2M	23418856	230	50	38.3	≥0.95	T70°C	IP65	I	IK10	3.4
CFN 02 LED EX 6025LM 39.7W 840 3H	23418857	230	50	39.7	≥0.95	T70°C	IP65	I	IK10	4
CFN 02 LED EX 7700LM 46W 840	23418855	230	50	46	≥0.95	T70°C	IP65	I	IK10	4.3

840 = 4000K CRI≥80 – Neutral white light (4000K) with a Color Rendering Index (CRI) of 80
 3H = 3-hour Emergency Lighting – Provides 3 hours of emergency lighting
 EX = Explosion-proof – Suitable for use in explosive atmospheres.

The values are approximate and may be subject to change.

The tolerance of the initial flux and initial active power is $\pm 10\%$ of the specified value. These values are measured at an ambient temperature of 25°C unless another temperature is specified.

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