

# PRODUCT DATASHEET

## TruSys® PFM EM N 70 W 4000 K AT 3H

TruSys® PERFORMANCE EMERGENCY NARROW | Luminaire inserts with narrow light distribution for standard and emergency lighting



### Areas of application

- Emergency illumination of escape routes
- Antipanic lighting
- Buildings requiring up to 3 h emergency light operation
- Direct replacement for luminaires with fluorescent lamps
- Industry halls, high rack warehouse, garages, hardware stores

### Product benefits

- Seamless integration of luminaires with emergency lighting function into general lighting
- Easy wiring thanks to included prewired driver and battery for Emergency lighting function
- Simple testing of luminaires with emergency lighting function thanks to integrated automatic test function
- Convenient visualization of results of automatic test with an included control LED
- Operation of integrated emergency lighting function with long life LiFePO4 battery with 3h battery discharge time
- High luminous efficacy in normal operation
- 3 years guarantee
- Directed light distribution for high heights
- Easy installation, no tools required for connection
- Energy saving and cost-effective
- Flexible application due to a range of different lumen packages and beam angles
- Rows of up to 57 luminaires possible

### Product features



- Certified according to European norms (EN 60598-1:2015; EN 60598-2-22:2014)
- Luminaire suited for normal lighting and emergency lighting
- Self-contained luminaires
- Emergency lighting function: battery discharge time of 3 h
- Function test of emergency lighting: automatic (AT)
- Battery technology: LiFePO<sub>4</sub>
- Beam angle narrow: 60°
- Click into place solution with smart click buttons
- Luminous efficacy: up to 160 lm/W
- Fixed luminaire taps
- Steel-sheet housing

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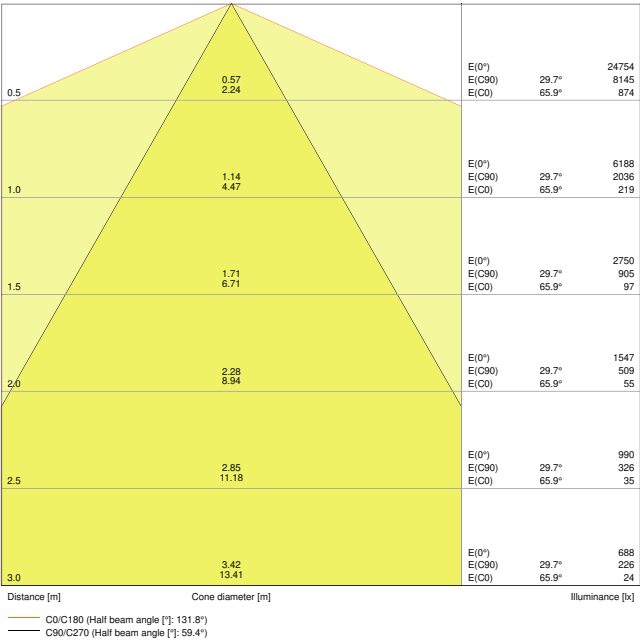
## TECHNICAL DATA

### Electrical data

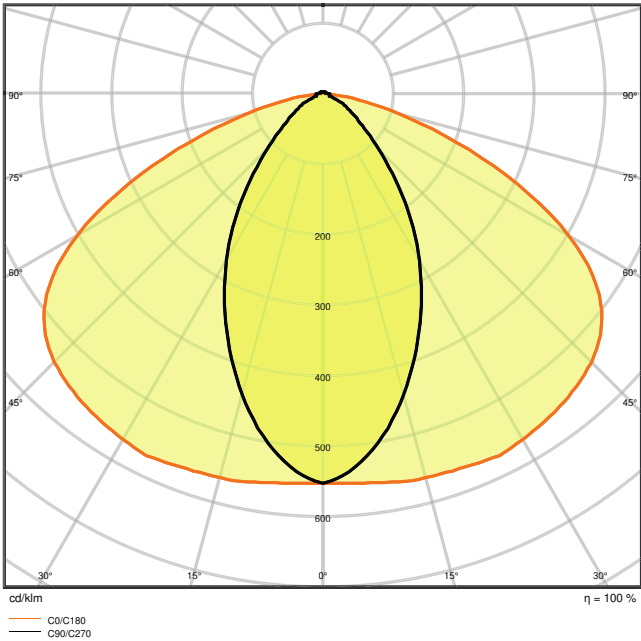
Nominal wattage	70.00 W
Nominal voltage	220...240 V
Mains frequency	50...60 Hz
Nominal current	380.000 mA
Inrush current	32 A
Inrush current time $T_{h50}$	400 $\mu$ s
Max. number of luminaires per miniature circuit breaker B16	5
Max. number of luminaires per miniature circuit breaker C10	5
Max. number of luminaires per miniature circuit breaker C16	9
Power factor $\lambda$	> 0.90
Total harmonic distortion	< 20 %
Protection class	I
Operating mode	Integrated LED driver

### Photometrical data

Luminous flux	11200 lm
Luminous efficacy	160 lm/W
Color temperature	4000 K
Light color (designation)	Cool White
Color rendering index Ra	$\geq 80$
Standard deviation of color matching	$\leq 3$ sdc <sub>m</sub>
Low flicker	Yes
Photobiological safety group acc. to EN62778	RG1
Beam angle	60 °
UGR	21



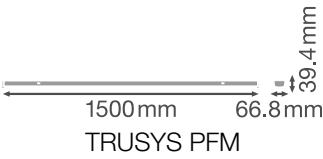
TRUSYS PFM 70W 4000K N EM AT 3H



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Dimensions & Weight

Length	1500.00 mm
Width	66.80 mm
Height	39.40 mm
Product weight	1660.00 g



Materials & Colors

Product color	White
Housing color	White
Body material	Steel
Cover material	Polymethylmethacrylate (PMMA)
Light emitting surface material	PMMA

Glow Wire Test according to IEC 60695-2-12	650 °C
Mercury content	0.0 mg

### Application & Mounting

Ambient temperature range	-25...+40 °C
Temperature range at storage	5...+35 °C
Type of connection	Plug-In connection
Type of protection	IP20
Protection class IK (shock resistance)	IK04
Dimmable	Yes
Mounting type	Suspended/Surface
Mounting location	Mounting rail
Application environment	Indoor
With light source	Yes
Replaceable light source	No

### Lifespan

Lifespan L70/B50 at 25 °C	55000 h <sup>1)</sup>
Lifespan L80/B10 at 25 °C	50000 h <sup>1)</sup>
Lifespan L80/B50 at 25 °C	50000 h
Lifespan L90/B10 at 25 °C	40000 h
Number of switching cycles	100000

<sup>1)</sup> t[h]: L70 / B50 @ 25 °C (Ta), t[h]: L80 / B10 @ 25 °C (Ta), t[h]: L90 / B10 @ 25 °C (Ta)

### Control gear

ECG - Output ripple current	< 20 %
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### BATTERY

Type of Battery	LiFePO4
Nominal voltage of battery	3.2 V
Nominal capacity of battery	9000 mAh
Battery charging time	< 24 h

### Emergency lighting












Area of emergency application	Anti-panic lighting / Escape route lighting
Type of emergency light operation	Maintained / Non-maintained
Type of emergency operation test	Automatic




Wattage in maintained operation mode	70 W
Wattage in emergency operation mode	4 W
Luminous flux in maintained operation mode	11200 lm
Luminous flux in emergency operation mode	600 lm
Battery life in emergency operation mode	3 h
Integrated test switch	No

Certificates & Standards

Standards	CE / CB / ENEC / EAC
Ball shot safe	No
Replaceable light source (EPREL)	Not replaceable

DOWNLOAD DATA

Documents and certificates		Document name
	User instruction / safety instructions	UI_Trusys_Trunking-System_Performance_EM
	User instruction / safety instructions	TRUNKING SYSTEM PFM EM
	Legal information	LS Insert Trusys PFM EM
	Declarations of conformity	TRUSYS PFM EM AT 3H
Photometric and lighting design files		Document name
	IES file (IES)	TRUSYS PFM 70W 4000K N EM AT 3H
	LDT file (Eulumdat)	TRUSYS PFM 70W 4000K N EM AT 3H
	ULD file (DIALux)	TRUSYS PFM 70W-4000K N
	ROLF file (RELUX)	TRUSYS PFM 70W-4000K
	UGR file (UGR table)	TRUSYS PFM 70W 4000K N EM AT 3H
	Light distribution curve type cone	TRUSYS PFM 70W 4000K N EM AT 3H
	Light distribution curve type polar	TRUSYS PFM 70W 4000K N EM AT 3H

CAD/BIM files		Document name
	BIM Revit 3D	TruSys®-Performance
	CAD STEP 3D	TRUSYS PFM INSERT
Tender texts		Document name
	Tender documents	TruSys PERFORMANCE EMERGENCY NARROW 70 W 4000 K AT 3H-EN

## LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4058075291256	Folding box 1	83 mm x 1,571 mm x 88 mm	1835.00 g	11.47 dm <sup>3</sup>
4058075291263	Shipping box 4	1,589 mm x 194 mm x 198 mm	8133.00 g	61.04 dm <sup>3</sup>

The mentioned product code describes the smallest quantity unit which can be ordered. One shipping unit can contain one or more single products. When placing an order, for the quantity please enter single or multiples of a shipping unit.

## References / Links

– For Guarantee see [www.ledvance.com/guarantee](http://www.ledvance.com/guarantee)

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