

# PRODUCT DATASHEET

## TruSys® PFM VN 50 W/4000 K

TruSys® PERFORMANCE VERY NARROW | Luminaire inserts with very narrow light distribution



### Areas of application

- Direct replacement for luminaires with fluorescent lamps
- Industry halls, high rack warehouse, garages, hardware stores

### Product benefits

- Very directed light distribution for high rack warehouses
- 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 (On-Off) / 66 (DALI) luminaires possible
- Versions with DALI ECG available

### Product features

- Beam angle very narrow: 30°
- Click into place solution with smart click buttons
- Luminous efficacy: up to 160 lm/W
- Fixed luminaire taps
- Lumen package 5600 lm, 8000 lm, 11200 lm
- Steel-sheet housing
- Lens material: PMMA



- Type of protection: IP20
- Common family design with LEDVANCE
- Lifetime (L80/B10): up to 60,000 h

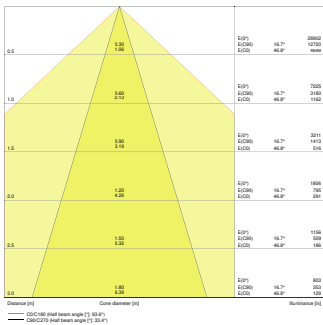
---

**TECHNICAL DATA****Electrical data**

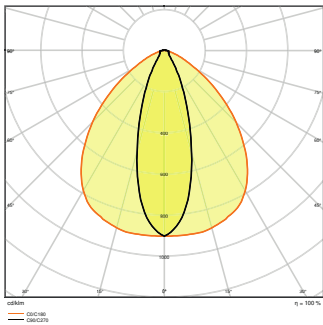
Nominal wattage	50.00 W
Nominal voltage	220...240 V
Mains frequency	50...60 Hz
Nominal current	270 mA
Inrush current	30 A
Inrush current time $T_{h50}$	265 $\mu$ s
Max. number of luminaires per miniature circuit breaker B16	8
Max. number of luminaires per miniature circuit breaker C10	8
Max. number of luminaires per miniature circuit breaker C16	13
Power factor $\lambda$	> 0.90
Total harmonic distortion	< 20 %
Protection class	I
Operating mode	Integrated LED driver

**Photometrical data**

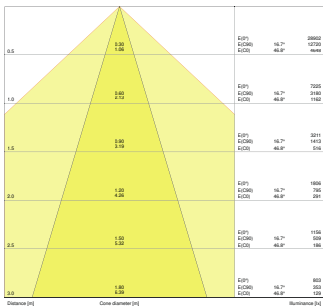
Luminous flux	8000 lm
Luminous efficacy	160 lm/W
Color temperature	4000 K
Light color (designation)	Cool White
Color rendering index Ra	$\geq 80$
Standard deviation of color matching	$\leq 3$ sdc <sub>cm</sub>
Low flicker	Yes
Photobiological safety group acc. to EN62778	RG1
Beam angle	30 °
UGR	21



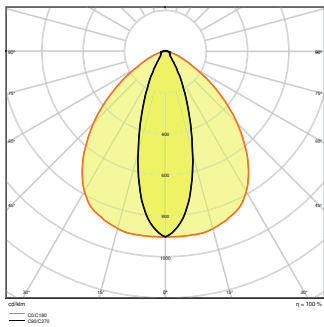
TRUSYS PFM 50W 4000K VN 4x1  
EUE LEDV



TRUSYS PFM 50W 4000K VN 4x1  
EUE LEDV



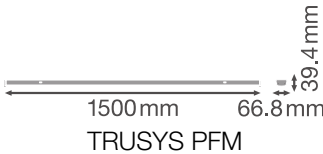
TRUSYS PFM 50W 4000K VN



TRUSYS PFM 50W 4000K VN

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
Type of connection	Plug-In connection
Type of protection	IP20
Protection class IK (shock resistance)	IK04
Dimmable	No
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	65000 h <sup>1)</sup>
Lifespan L80/B10 at 25 °C	60000 h <sup>1)</sup>
Lifespan L80/B50 at 25 °C	60000 h
Lifespan L90/B10 at 25 °C	50000 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

Output current	620 mA
ECG - Output ripple current	< 20 %














### Certificates & Standards

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

### Additional product data

Number of illuminants	-
-----------------------	---

## DOWNLOAD DATA

Documents and certificates		Document name
	User instruction / safety instructions	UI_Trusys® TRUNKING SYSTEM PFM ON/OFF
	Legal information	LS Insert Trusys PFM
	Declarations of conformity	TRUSYS PFM
Photometric and lighting design files		Document name
	IES file (IES)	TRUSYS PFM 50W 4000K VN
	LDT file (Eulumdat)	TRUSYS PFM 50W 4000K VN
	ULD file (DIALux)	TRUSYS PFM 50W-4000K VN
	UGR file (UGR table)	TRUSYS PFM 50W 4000K VN
	Light distribution curve type cone	TRUSYS PFM 50W 4000K VN 4x1 EUE LEDV
	Light distribution curve type cone	TRUSYS PFM 50W 4000K VN
	Light distribution curve type polar	TRUSYS PFM 50W 4000K VN
	Light distribution curve type polar	TRUSYS PFM 50W 4000K VN 4x1 EUE LEDV
CAD/BIM files		Document name
	CAD STEP 3D	TRUSYS PFM INSERT
Tender texts		Document name
	Tender documents	TruSys PERFORMANCE VERY NARROW 50 W4000 K-EN

## LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4058075398757	Folding box 1	108 mm x 1,534 mm x 102 mm	1835.00 g	16.90 dm <sup>3</sup>
4058075398764	Shipping box 4	1,547 mm x 218 mm x 231 mm	8133.00 g	77.90 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.

---

## DISCLAIMER

Subject to change without notice. Errors and omission excepted. Always make sure to use the most recent release.