PRODUCT DATASHEET
TruSys® PFM W 50 W/4000 K

TruSys® PERFORMANCE WIDE | Luminaire inserts with wide light distribution

PERFOR-
MANCE
CLASS

Areas of application

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

Product benefits

- Homogenous light distribution
- 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 wide: 90°
- Click into place solution with smart click buttons
- Luminous efficacy: up to 160 lm/W
- Fixed luminare taps
- Lumen package 5600 lm, 8000 lm, 11200 lm
- Steel-sheet housing
- Lens material: PMMA

© 2025, LEDVANCE GmbH. All rights reserved.

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

© 2025, LEDVANCE GmbH. All rights reserved.

TECHNICAL DATA

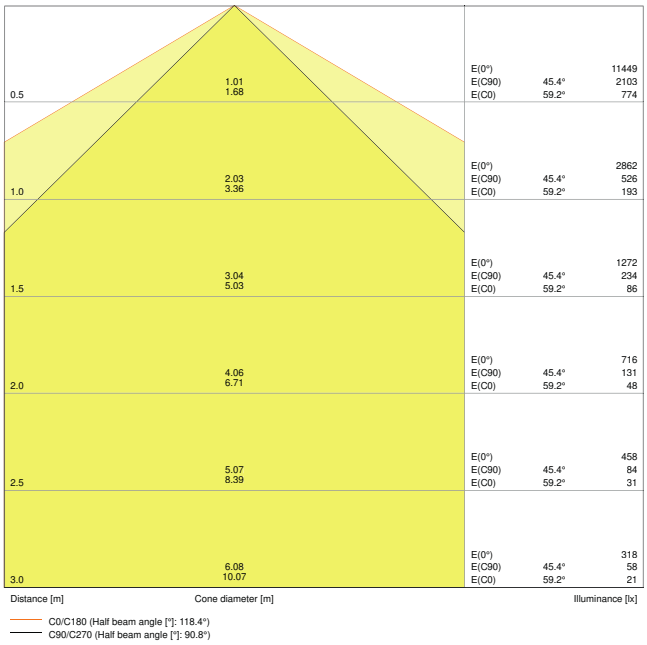
Electrical data

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 µs
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 λ	> 0.90
Total harmonic distortion	< 20 %
Protection class	I
Operating mode	Integrated LED driver

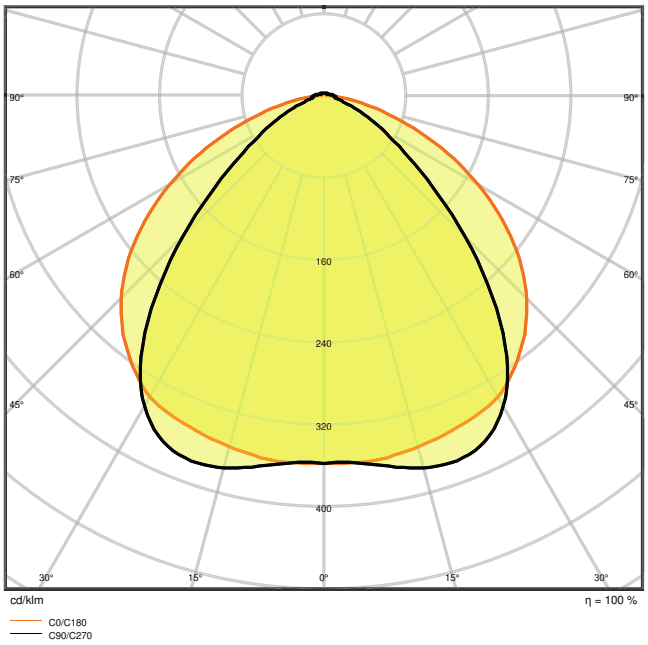
Photometrical data

Luminous flux	8000 lm
Luminous efficacy	160 lm/W
Color temperature	4000 K
Light color (designation)	Cool White
Color rendering index Ra	> 80
Standard deviation of color matching	≤3 sdcm
Low flicker	Yes
Photobiological safety group acc. to EN62778	RG1
Beam angle	90 °
UGR	21

© 2025, LEDVANCE GmbH. All rights reserved.



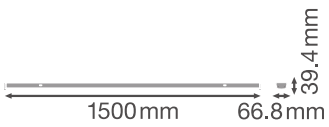
TRUSYS PFM 50W 4000K W



TRUSYS PFM 50W 4000K W

Dimensions & Weight

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



TRUSYS PFM

Materials & Colors

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

© 2025, LEDVANCE GmbH. All rights reserved.

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 [1)]
Lifespan L80/B10 at 25 °C	60000 h [1)]
Lifespan L80/B50 at 25 °C	60000 h
Lifespan L90/B10 at 25 °C	50000 h
Number of switching cycles	100000

1) 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

EQUIPMENT / ACCESSORIES

- Mounting rail with fixed integrated 5- and 8-pole cable

DOWNLOAD DATA

© 2025, LEDVANCE GmbH. All rights reserved.

	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	CE TRUSYS PFM 50W 4000K W AC17196

	Photometric and lighting design files	Document name
	IES file (IES)	TRUSYS PFM 50W 4000K W
	LDT file (Eulumdat)	TRUSYS PFM 50W 4000K W
	ULD file (DIALux)	TRUSYS PFM 50W-4000K W
	ROLF file (RELUX)	TRUSYS PFM 50W-4000K
	UGR file (UGR table)	TRUSYS PFM 50W 4000K W
	Light distribution curve type cone	TRUSYS PFM 50W 4000K W
	Light distribution curve type polar	TRUSYS PFM 50W 4000K W

	CAD/BIM files	Document name
	BIM Revit 3D	TruSys®-Performance
	CAD STEP 3D	TRUSYS PFM INSERT

	Tender texts	Document name
	Tender documents	TruSys PERFORMANCE WIDE 50 W4000 K-EN

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4058075290853	Folding box 1	83 mm x 1,571 mm x 88 mm	1835.00 g	11.47 dm^3
4058075290860	Shipping box 4	1,589 mm x 194 mm x 198 mm	8133.00 g	61.04 dm^3

© 2025, LEDVANCE GmbH. All rights reserved.

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.

© 2025, LEDVANCE GmbH. All rights reserved.