

# PRODUCT DATASHEET

## TruSys® PFM DS 50 W/4000 K

TruSys® PERFORMANCE DOUBLE ASYMMETRIC | Luminaire inserts with double asymmetrical light distribution



PERFOR-  
MANCE  
CLASS

### Areas of application

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

### Product benefits

- Double directed light distribution for shelf illumination
- 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

- Beam angle double asymmetric: 2x30°
- 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

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## TECHNICAL DATA

### Electrical data

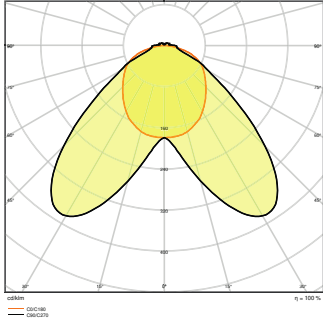
|                                                             |                       |
|-------------------------------------------------------------|-----------------------|
| Nominal wattage                                             | 50.00 W               |
| Nominal voltage                                             | 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>m</sub> |
| Low flicker                                  | Yes                       |
| Photobiological safety group acc. to EN62778 | RG1                       |
| Beam angle                                   | 2 x 30 °                  |
| UGR                                          | 21                        |



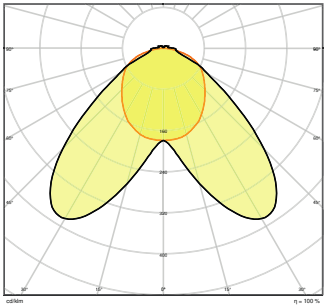
TRUSYS PFM 50W 4000K DS



TRUSYS PFM 50W 4000K DS



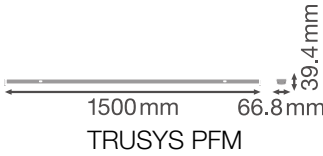
TRUSYS PFM 50W 4000K DS 4x1  
EUE LEDV



TRUSYS PFM 50W 4000K DS 4x1  
EUE LEDV

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 | - |
|-----------------------|---|

## EQUIPMENT / ACCESSORIES

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

## 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 DS                            |
|    | LDT file (Eulumdat)                    | TRUSYS PFM 50W 4000K DS                            |
|  | ULD file (DIALux)                      | TRUSYS PFM 50W-4000K DS                            |
|  | UGR file (UGR table)                   | TRUSYS PFM 50W 4000K DS                            |
|  | Light distribution curve type cone     | TRUSYS PFM 50W 4000K DS                            |
|  | Light distribution curve type cone     | TRUSYS PFM 50W 4000K DS 4x1 EUE LEDV               |
|  | Light distribution curve type polar    | TRUSYS PFM 50W 4000K DS 4x1 EUE LEDV               |
|  | Light distribution curve type polar    | TRUSYS PFM 50W 4000K DS                            |
| Tender texts                                                                       |                                        | Document name                                      |
|  | Tender documents                       | TruSys PERFORMANCE DOUBLE ASYMMETRIC 50 W4000 K-EN |

## LOGISTICAL DATA

| Product code  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume                |
|---------------|------------------------------|--------------------------------------|--------------|-----------------------|
| 4058075398795 | Folding box<br>1             | 108 mm x 1,534 mm x 102 mm           | 1835.00 g    | 16.90 dm <sup>3</sup> |
| 4058075398801 | Shipping box<br>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.

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## DISCLAIMER

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