

# PRODUCT DATASHEET

## TruSys® PFM N 70 W/4000 K

TruSys® PERFORMANCE NARROW | Luminaire inserts with narrow light distribution



### Areas of application

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

### Product benefits

- 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 (On-Off) / 66 (DALI) luminaires possible
- Versions with DALI ECG available

### Product features

- Beam angle narrow: 60°
- 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

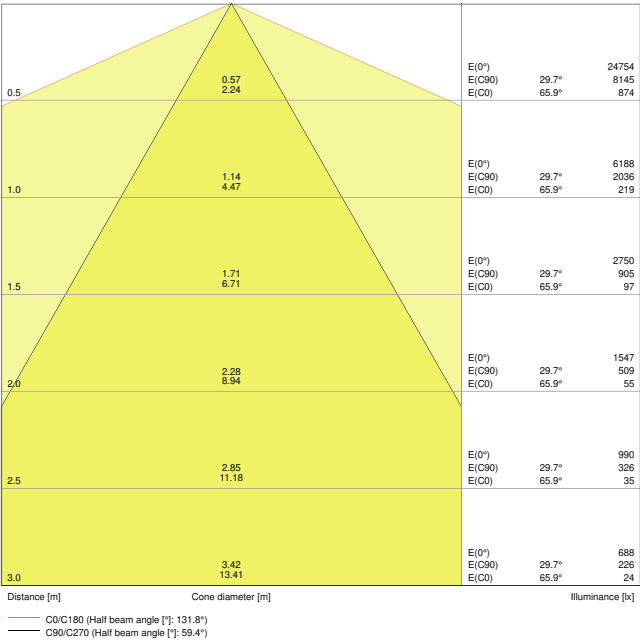
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**TECHNICAL DATA****Electrical data**

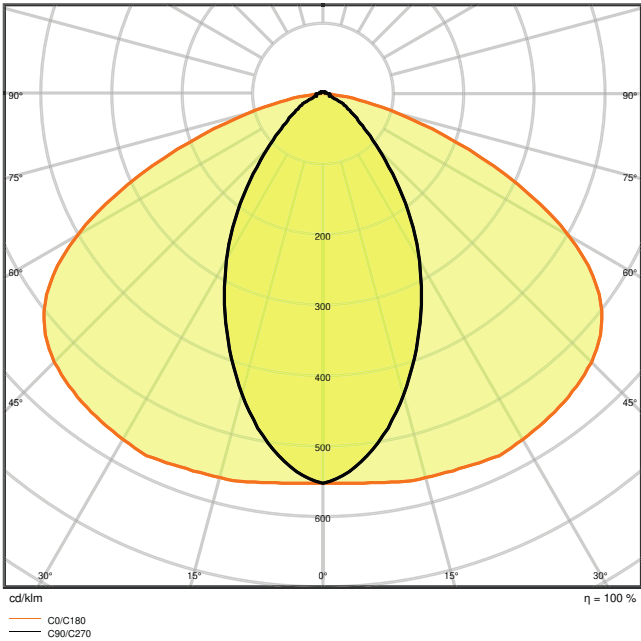
|                                                             |                       |
|-------------------------------------------------------------|-----------------------|
| Nominal wattage                                             | 70.00 W               |
| Nominal voltage                                             | 220...240 V           |
| Mains frequency                                             | 50...60 Hz            |
| Nominal current                                             | 380 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>cm</sub> |
| Low flicker                                  | Yes                        |
| Photobiological safety group acc. to EN62778 | RG1                        |
| Beam angle                                   | 60 °                       |
| UGR                                          | 21                         |



TRUSYS PFM 70W 4000K N



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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       |
| 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  | 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

|                             |        |
|-----------------------------|--------|
| Output current              | 980 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

| 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 70W 4000K N AC17200     |
| Photometric and lighting design files                                              |                                        | Document name                         |
|    | IES file (IES)                         | TRUSYS PFM 70W 4000K N                |
|    | LDT file (Eulumdat)                    | TRUSYS PFM 70W 4000K N                |
|    | ULD file (DIALux)                      | TRUSYS PFM 70W-4000K N                |
|    | ROLF file (RELUX)                      | TRUSYS PFM 70W-4000K                  |
|    | UGR file (UGR table)                   | TRUSYS PFM 70W 4000K N                |
|  | Light distribution curve type cone     | TRUSYS PFM 70W 4000K N                |
|  | Light distribution curve type polar    | TRUSYS PFM 70W 4000K N                |
| CAD/BIM files                                                                      |                                        | Document name                         |
|  | BIM Revit 3D                           | TruSys®-Performance                   |
|  | CAD STEP 3D                            | TRUSYS PFM INSERT                     |

## LOGISTICAL DATA

| Product code  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume                |
|---------------|------------------------------|--------------------------------------|--------------|-----------------------|
| 4058075290969 | Folding box<br>1             | 83 mm x 1,571 mm x 88 mm             | 1835.00 g    | 11.47 dm <sup>3</sup> |
| 4058075290976 | Shipping box<br>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.

## DISCLAIMER

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