

# PRODUCT DATASHEET

## TRUSYS FLEX P 50W 865 W OP WT

TruSys® FLEX WIDE OPAL | Luminaire inserts with wide light distribution and opal lens, up to 167 lm/W



PERFOR-  
MANCE  
CLASS

### Areas of application

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

### Product benefits

- Opal cover above LEDs for homogeneous illumination and minimized glare
- 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
- 5 years guarantee

### Product features

- Beam angle wide: 90° with opal lens
- Click into place solution with smart click buttons
- Luminous efficacy: up to 167 lm/W
- Fixed luminaire taps
- Luminaire versions available with on-off or IoT-ready DALI-2 driver
- Steel-sheet housing
- Lens material: PMMA
- Type of protection: IP40



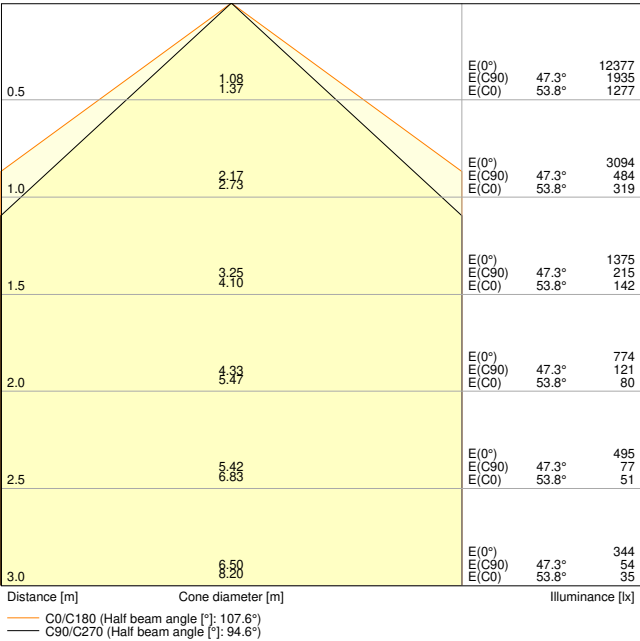
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**TECHNICAL DATA****Electrical data**

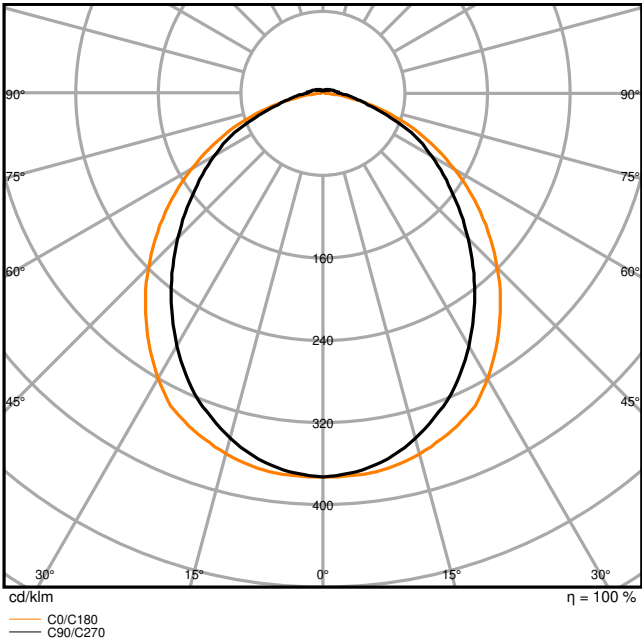
|                                                             |                       |
|-------------------------------------------------------------|-----------------------|
| Nominal wattage                                             | 50.00 W               |
| Nominal voltage                                             | 220...240 V           |
| Mains frequency                                             | 50...60 Hz            |
| Nominal current                                             | 230.000 mA            |
| Inrush current                                              | 32 A                  |
| Inrush current time $T_{h50}$                               | 182 $\mu$ s           |
| Max. number of luminaires per miniature circuit breaker B16 | 13                    |
| Max. number of luminaires per miniature circuit breaker C10 | 10                    |
| Max. number of luminaires per miniature circuit breaker C16 | 17                    |
| Power factor $\lambda$                                      | $\geq 0.95$           |
| Total harmonic distortion                                   | $\leq 15 \%$          |
| Protection class                                            | I                     |
| Operating mode                                              | Integrated LED driver |

**Photometrical data**

|                                              |               |
|----------------------------------------------|---------------|
| Luminous flux                                | 8300 lm       |
| Luminous efficacy                            | 167 lm/W      |
| Color temperature                            | 6500 K        |
| Light color (designation)                    | Cool Daylight |
| Color rendering index Ra                     | $\geq 80$     |
| Standard deviation of color matching         | 3 sdcm        |
| Low flicker                                  | Yes           |
| Flickering metric (Pst LM)                   | $\leq 1$      |
| Stroboscope effect metric (SVM)              | $\leq 0.4$    |
| Photobiological safety group acc. to EN62778 | RG1           |
| Beam angle                                   | 90 °          |



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Dimensions & Weight

|                |            |
|----------------|------------|
| Length         | 1500.00 mm |
| Width          | 77.70 mm   |
| Height         | 39.40 mm   |
| Product weight | 1700.00 g  |



TRUSYS FLEX luminaire - opal

Materials & Colors

|                                            |                               |
|--------------------------------------------|-------------------------------|
| Product color                              | White                         |
| Housing color                              | White                         |
| RAL Color (most similar)                   | RAL 9016                      |
| Body material                              | Steel                         |
| Cover material                             | Polymethylmethacrylate (PMMA) |
| Light emitting surface material            | Polymethylmethacrylate (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           | -40...+80 °C       |
| Type of connection                     | Plug-In connection |
| Type of protection                     | IP40               |
| Protection class IK (shock resistance) | IK04               |
| Dimmable                               | No                 |
| Mounting type                          | Suspended/Surface  |
| Mounting location                      | Mounting rail      |
| Application environment                | Indoor             |
| Adjustable                             | No                 |
| With light source                      | Yes                |
| Replaceable light source               | No                 |

### Lifespan

|                            |                        |
|----------------------------|------------------------|
| Lifespan L70/B50 at 25 °C  | 100000 h <sup>1)</sup> |
| Lifespan L80/B10 at 25 °C  | 76000 h <sup>1)</sup>  |
| Lifespan L80/B50 at 25 °C  | 89000 h                |
| Lifespan L90/B10 at 25 °C  | 43000 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 | < 5 %  |

### Emergency lighting

|                                  |                                                                                 |
|----------------------------------|---------------------------------------------------------------------------------|
| Type of Emergency Lighting (EL)  | EL certified driver (0Hz / DC operation) for central battery operation included |
| Type of emergency operation test | None                                                                            |

### Certificates & Standards

|                                                      |                             |
|------------------------------------------------------|-----------------------------|
| Standards                                            | CE / CB / UKCA / ENEC / EAC |
| Luminaire with limited surface temperature, "D sign" | Yes                         |
| 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 | TRUSYS FLEX 865 ON OFF              |
|  | Legal information                      | Legal insert TRUSYS FLEX ON OFF     |
|  | Legal information                      | LSI TRUSYS FLEX 865 ON OFF          |
|  | Legal information                      | Informationstext 18 Abs 4 ElektroG  |
|  | Declarations of conformity             | TRUSYS FLEX on/off                  |
|  | Declarations of conformity UKCA        | TRUSYS FLEX on/off                  |
|  | Certificates                           | ENEC Certificate Trusys Flex ON/OFF |
| Photometric and lighting design files                                              |                                        | Document name                       |
|  | IES file (IES)                         | TRUSYS FLEX P 50W 865 W OP WT       |
|  | LDT file (Eulumdat)                    | TRUSYS FLEX P 50W 865 W OP WT       |
|  | ULD file (DIALux)                      | TRUSYS FLEX P 50W 865 W OP WT       |

| Photometric and lighting design files                                             |                                     | Document name                            |
|-----------------------------------------------------------------------------------|-------------------------------------|------------------------------------------|
|  | ROLF file (RELUX)                   | TRUSYS FLEX P 50W 865 W OP WT            |
|  | UGR file (UGR table)                | TRUSYS FLEX P 50W 865 W OP WT            |
|  | Light distribution curve type cone  | TRUSYS FLEX P 50W 865 W OP WT            |
|  | Light distribution curve type polar | TRUSYS FLEX P 50W 865 W OP WT            |
| CAD/BIM files                                                                     |                                     | Document name                            |
|  | CAD STEP 3D                         | TruSys FLEX                              |
| Tender texts                                                                      |                                     | Document name                            |
|  | Tender documents                    | TruSys FLEX WIDE OPAL 50W 865 W OP WT-EN |

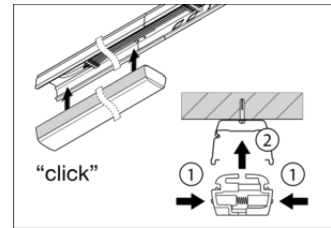
LOGISTICAL DATA

| Product code  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume                |
|---------------|------------------------------|--------------------------------------|--------------|-----------------------|
| 4099854190759 | Folding box<br>1             | 108 mm x 1,534 mm x 102 mm           | 1875.00 g    | 16.90 dm <sup>3</sup> |
| 4099854190766 | Shipping box<br>4            | 1,547 mm x 218 mm x 231 mm           | 8293.00 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.

ADDITIONAL CATALOG INFORMATION





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## References / Links

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

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