

# PRODUCT DATASHEET

## TRUSYS FLEX P 50W 840 N CL WT DALI

TruSys® FLEX NARROW | Luminaire inserts with narrow light distribution, up to 175 lm/W



### Areas of application

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

### 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
- 5 years guarantee

### Product features

- Beam angle narrow: 60°
- Click into place solution with smart click buttons
- Luminous efficacy: up to 175 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



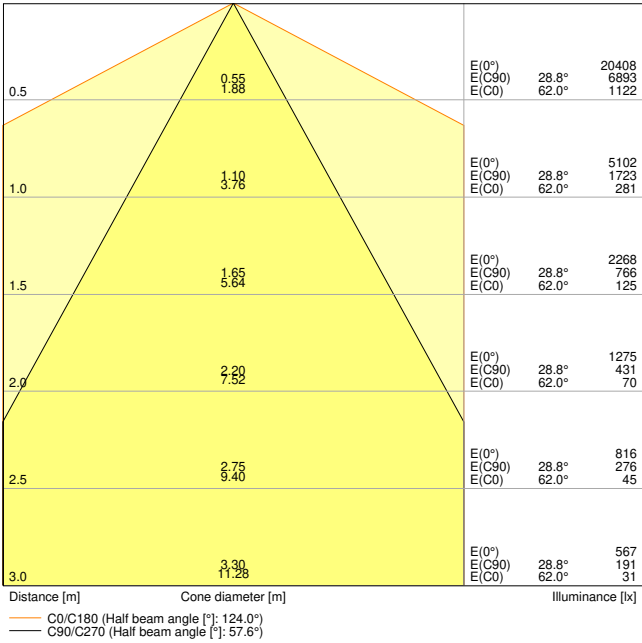
## TECHNICAL DATA

### Electrical data

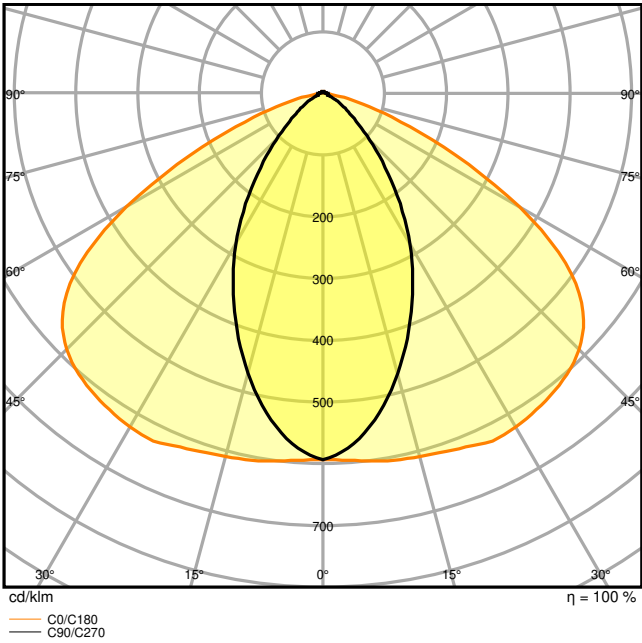
|                                                             |                       |
|-------------------------------------------------------------|-----------------------|
| Nominal wattage                                             | 50.00 W               |
| Nominal voltage                                             | 220...240 V           |
| Mains frequency                                             | 0/50/60 Hz            |
| Nominal current                                             | 230.000 mA            |
| Inrush current                                              | 43.8 A                |
| Inrush current time $T_{h50}$                               | 188 $\mu$ s           |
| Max. number of luminaires per miniature circuit breaker B16 | 9                     |
| Max. number of luminaires per miniature circuit breaker C10 | 7                     |
| Max. number of luminaires per miniature circuit breaker C16 | 12                    |
| Power factor $\lambda$                                      | $\geq 0.94$           |
| Total harmonic distortion                                   | $\leq 15$ %           |
| Protection class                                            | I                     |
| Operating mode                                              | Integrated LED driver |

### Photometrical data

|                                              |            |
|----------------------------------------------|------------|
| Luminous flux                                | 8600 lm    |
| Luminous efficacy                            | 175 lm/W   |
| Color temperature                            | 4000 K     |
| Light color (designation)                    | Cool White |
| Color rendering index Ra                     | $\geq 80$  |
| Standard deviation of color matching         | 3 sdcn     |
| 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                                   | 60 °       |



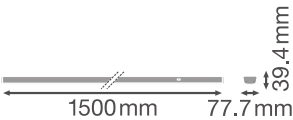
LDC typ cone



LDC typ polar

Dimensions & Weight

|                |            |
|----------------|------------|
| Length         | 1500.00 mm |
| Width          | 77.70 mm   |
| Height         | 39.40 mm   |
| Product weight | 1750.00 g  |



Materials & Colors

|                                            |                               |
|--------------------------------------------|-------------------------------|
| Product color                              | White                         |
| Housing color                              | White                         |
| 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                               | Yes                |
| Type of dimming                        | DALI               |
| Mounting type                          | Suspended/Surface  |
| Mounting location                      | Mounting rail      |
| Application environment                | Indoor             |
| Adjustable                             | No                 |
| LED module replaceable                 | Not replaceable    |
| With light source                      | Yes                |

### Lifespan

|                            |                        |
|----------------------------|------------------------|
| Lifespan L70/B50 at 25 °C  | 100000 h <sup>1)</sup> |
| Lifespan L80/B10 at 25 °C  | 76000 h <sup>1)</sup>  |
| Lifespan L90/B10 at 25 °C  | 38000 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              | 1050 mA |
| ECG - Output ripple current | < 10 %  |

### Certificates & Standards

|           |                             |
|-----------|-----------------------------|
| Standards | CE / CB / UKCA / ENEC / EAC |
|-----------|-----------------------------|

|                                                      |     |
|------------------------------------------------------|-----|
| Luminaire with limited surface temperature, "D sign" | Yes |
| Ball shot safe                                       | No  |

## EQUIPMENT / ACCESSORIES

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

## DOWNLOAD DATA

| Documents and certificates                                                         |                                 |
|------------------------------------------------------------------------------------|---------------------------------|
|    | User instruction                |
|    | Addon Technical Information     |
|    | Packaging insert                |
|    | Declarations Of Conformity CE   |
|   | Declarations Of Conformity UKCA |
|  | Certificates                    |
| Photometric and lighting design files                                              |                                 |
|  | IES file (IES)                  |
|  | LDT file (Eulumdat)             |
|  | ULD file (DIALux)               |
|  | ROLF file (RELUX)               |
|  | UGR file (UGR table)            |
|  | LDC typ cone                    |
|  | LDC typ polar                   |

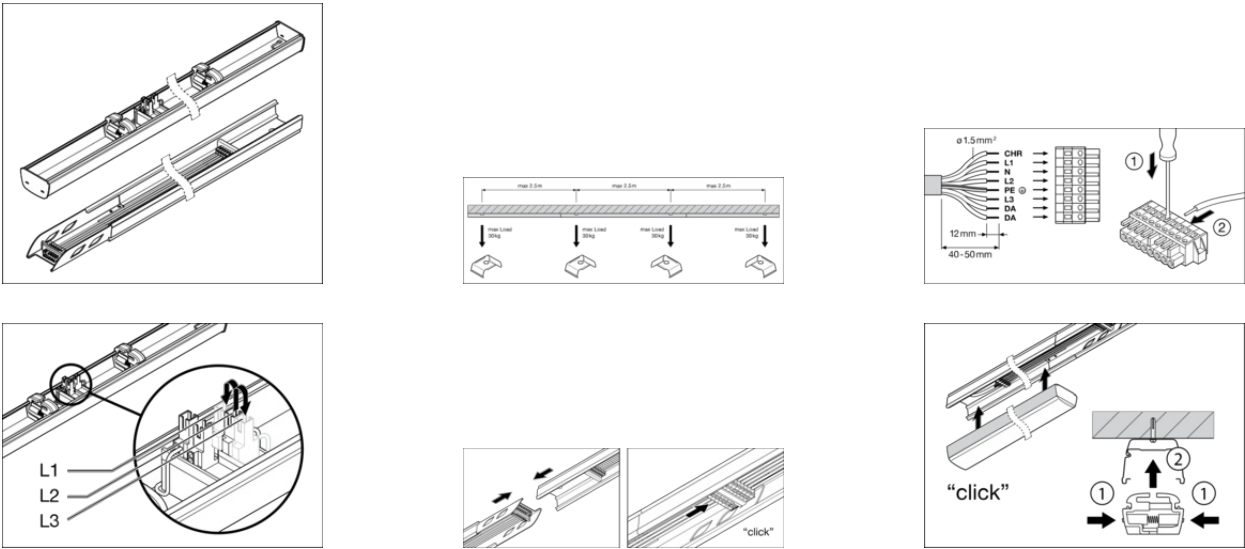
| CAD/BIM files                                                                     |                  |
|-----------------------------------------------------------------------------------|------------------|
|  | BIM_Revit_3D     |
|  | CAD_STEP_3D      |
| Tender texts                                                                      |                  |
|  | Tender documents |

LOGISTICAL DATA

| Product code  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume    |
|---------------|------------------------------|--------------------------------------|--------------|-----------|
| 4058075770959 | Folding box<br>1             | 108 mm x 1,534 mm x 102 mm           | 1925.00 g    | 16.90 dm³ |
| 4058075770966 | Shipping box<br>4            | 1,547 mm x 218 mm x 231 mm           | 8493.00 g    | 77.90 dm³ |

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



References / Links

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

DISCLAIMER

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