

# PRODUCT DATASHEET

## TRUSYS FLEX P 70W 840 DS CL WT DALI

TruSys® FLEX DOUBLE ASYMMETRIC | Luminaire inserts with double asymmetric light distribution, up to 175 lm/W



### Areas of application

- Direct replacement for luminaires with compact fluorescent lamps
- Industry halls, high rack warehouse, 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
- 5 years guarantee

### Product features

- Beam angle double asymmetric: 2x30°
- 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

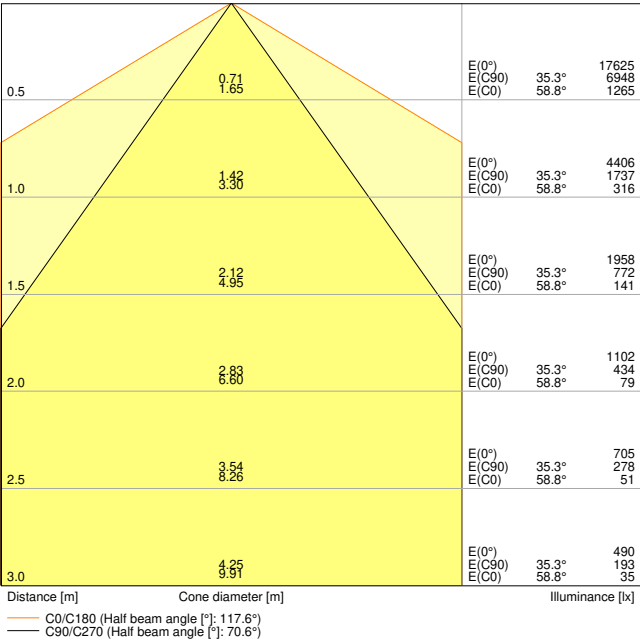
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**TECHNICAL DATA****Electrical data**

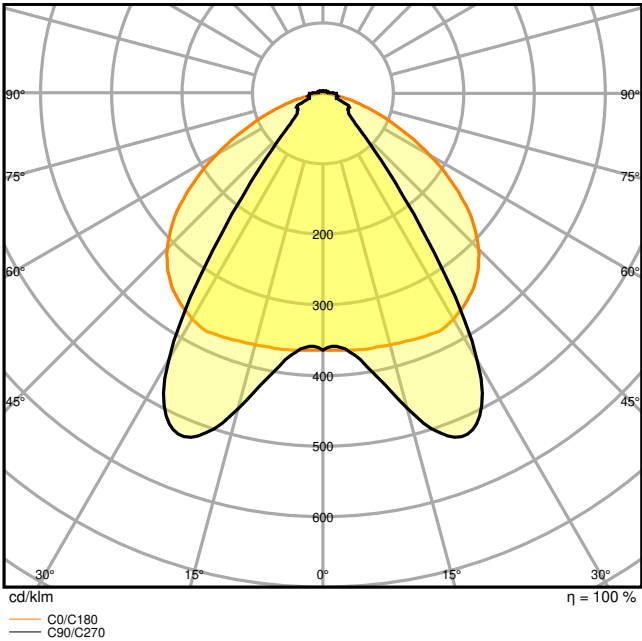
|                                                             |                       |
|-------------------------------------------------------------|-----------------------|
| Nominal wattage                                             | 70.00 W               |
| Nominal voltage                                             | 220...240 V           |
| Mains frequency                                             | 0/50/60 Hz            |
| Nominal current                                             | 320.000 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 $\lambda$                                      | $\geq 0.95$           |
| Total harmonic distortion                                   | $\leq 15 \%$          |
| Protection class                                            | I                     |
| Operating mode                                              | Integrated LED driver |
| Dimming interface                                           | DALI-2 / IoT          |

**Photometrical data**

|                                              |                    |
|----------------------------------------------|--------------------|
| Luminous flux                                | 12100 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 sdc <sub>m</sub> |
| 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                                   | 2 x 30 °           |



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Dimensions & Weight

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



TRUSYS FLEX luminaire - clear

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...+35 °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                                                       |
| IoT ready                              | Support of DALI data type PART 251, 252, 253 <sup>1)</sup> |
| Mounting type                          | Suspended/Surface                                          |
| Mounting location                      | Mounting rail                                              |
| Application environment                | Indoor                                                     |
| Adjustable                             | No                                                         |
| With light source                      | Yes                                                        |
| Replaceable light source               | No                                                         |

<sup>1)</sup> Internet of Things. Supports data transfer via gateway to cloud-based monitoring platforms, such as LEDVANCE VIVARES Cloud

### 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  | 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 % |
|-----------------------------|--------|

### 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             |

### Additional product data

|                |         |
|----------------|---------|
| Added function | VIVARES |
|----------------|---------|

### EQUIPMENT / ACCESSORIES

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

### Upgrade and replacement components

| Components Light Control                                                            |                                                         |               |
|-------------------------------------------------------------------------------------|---------------------------------------------------------|---------------|
| Product image                                                                       | Product name                                            | EAN           |
|  | MANUAL CONTROL UNIT SELECT DALI-2                       | 4058075837485 |
|  | MANUAL CONTROL UNIT SELECT DALI-2 TW                    | 4058075837508 |
|  | MANUAL CONTROL UNIT SELECT DALI-2 EXCHANGEABLE COVER TW | 4058075837522 |
|  | MANUAL CONTROL UNIT TOUCH DALI-2 TW                     | 4058075837560 |

| Product image                                                                       | Product name                                                   | EAN           |
|-------------------------------------------------------------------------------------|----------------------------------------------------------------|---------------|
|    | MANUAL CONTROL UNIT TOUCH DALI-2                               | 4058075837546 |
|     | PUSH CONTROL UNIT FLUSH MOUNT DALI-2 TW                        | 4058075837584 |
|     | SURFACE MOUNT FRAME                                            | 4058075843561 |
|    | PUSHBUTTON COUPLER DALI-2                                      | 4058075837607 |
|     | FLEX CONTROL UNIT IOT DALI-2 HCL TW                            | 4058075841888 |
|  | FLEX CONTROL UNIT FLUSH MOUNT DALI-2 TW                        | 4058075841901 |
|   | FLEX CONTROL UNIT DALI-2 TW                                    | 4058075843844 |
|   | FLEX CONTROL UNIT REAL-TIME-CLOCK DALI-2 HCL TW                | 4058075841925 |
|   | SENSOR DALI-2 LIGHT/PRESENCE-6 INFRARED CEILING INTEGRATION    | 4058075837621 |
|   | SENSOR DALI-2 LIGHT/PRESENCE-8 INFRARED CEILING INTEGRATION    | 4058075841949 |
|   | SENSOR DALI-2 LIGHT/PRESENCE-40X5 INFRARED CEILING INTEGRATION | 4058075843868 |

| Product image                                                                     | Product name                                              | EAN           |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------|---------------|
|   | SENSOR DALI-2 LIGHT/PRESENCE-24 INFRARED CEILING MOUNTING | 4058075843882 |
|  | SENSOR CEILING MOUNTING KIT                               | 4058075843905 |

## DOWNLOAD DATA

| Documents and certificates                                                         |                                        | Document name                              |
|------------------------------------------------------------------------------------|----------------------------------------|--------------------------------------------|
|    | User instruction / safety instructions | TRUSYS FLEX P RAIL                         |
|    | User instruction / safety instructions | TRUSYS FLEX DALI 840                       |
|    | Legal information                      | Light Source Insert Trusys Flex DALI       |
|   | Legal information                      | Legal insert TRUSYS FLEX DALI              |
|  | Legal information                      | Informationstext 18 Abs 4 ElektroG         |
|  | Declarations of conformity             | CE Declaration of Conformity TRUSYS FLEX   |
|  | Declarations of conformity UKCA        | UKCA Declaration of Conformity TRUSYS FLEX |
|  | Certificates                           | ENEC TRUSYS FLEX P DALI                    |
| Photometric and lighting design files                                              |                                        | Document name                              |
|  | IES file (IES)                         | TRUSYS FLEX P 70W 840 DS CL WT DALI        |
|  | LDT file (Eulumdat)                    | TRUSYS FLEX P 70W 840 DS CL WT DALI        |
|  | ULD file (DIALux)                      | TRUSYS FLEX P 70W 840                      |
|  | ROLF file (RELUX)                      | TRUSYS FLEX P 70W 840 DS                   |

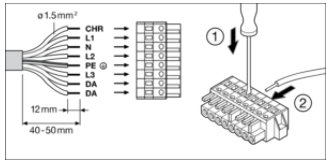
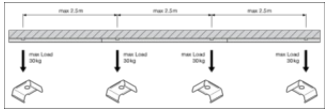
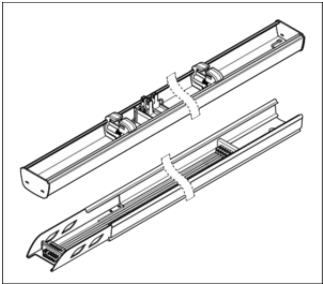
| Photometric and lighting design files                                             |                                     | Document name                                          |
|-----------------------------------------------------------------------------------|-------------------------------------|--------------------------------------------------------|
|  | UGR file (UGR table)                | TRUSYS FLEX P 70W 840 DS CL WT DALI                    |
|   | Light distribution curve type cone  | TRUSYS FLEX P 70W 840 DS CL WT DALI                    |
|   | Light distribution curve type polar | TRUSYS FLEX P 70W 840 DS CL WT DALI                    |
| CAD/BIM files                                                                     |                                     | Document name                                          |
|   | BIM Revit 3D                        | TRUSYS FLEX                                            |
|   | CAD STEP 3D                         | TruSys FLEX                                            |
| Tender texts                                                                      |                                     | Document name                                          |
|   | Tender documents                    | TruSys FLEX DOUBLE ASYMMETRIC 70W 840 DS CL WT DALI-EN |

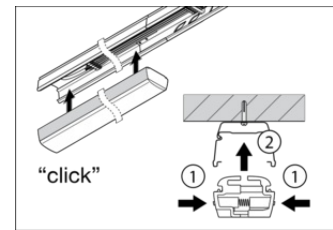
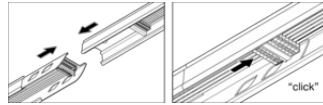
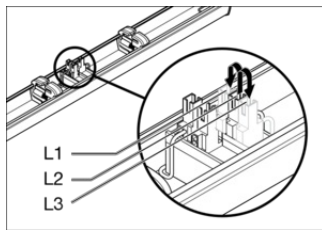
LOGISTICAL DATA

| Product code  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume                |
|---------------|------------------------------|--------------------------------------|--------------|-----------------------|
| 4058075771154 | Folding box<br>1             | 108 mm x 1,534 mm x 102 mm           | 1925.00 g    | 16.90 dm <sup>3</sup> |
| 4058075771161 | Shipping box<br>4            | 1,547 mm x 218 mm x 231 mm           | 8493.00 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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