# PRODUCT DATASHEET
# TRUSYS FLEX P 50W 865 N CL WT DALI

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



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

- Directed light distribution for high heights
- Easy installation, no tools required for connection
- 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 luminare 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

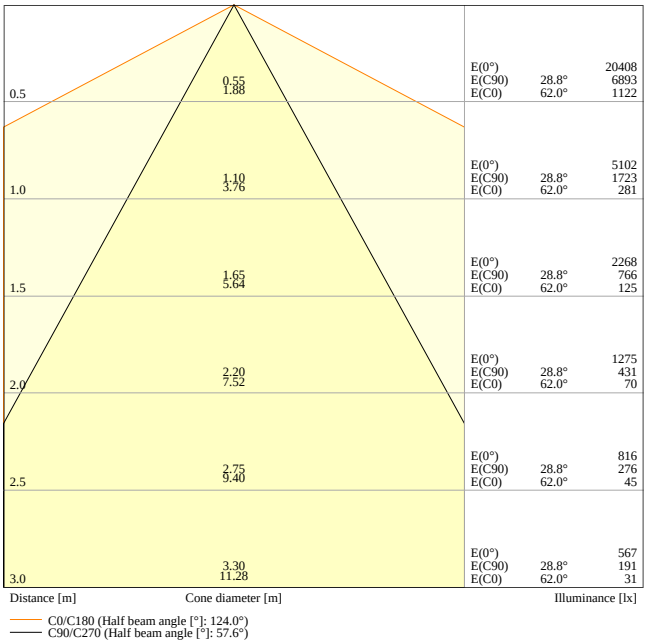
## Electrical data

| | |
|---|---|
| Nominal wattage | 50.00 W |
| Nominal voltage | 220…240 V |
| Mains frequency | 0/50/60 Hz |
| Nominal current | 230.000 mA |
| Inrush current | 43.8 A |
| Inrush current time $T_{h50}$ | 188 µs |
| 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 λ | ≥0.94 |
| Maximum total harmonic distortion | ≤ 15 % |
| Protection class | I |
| Operating mode | Integrated LED driver |
| Dimming interface | DALI-2 / IoT |

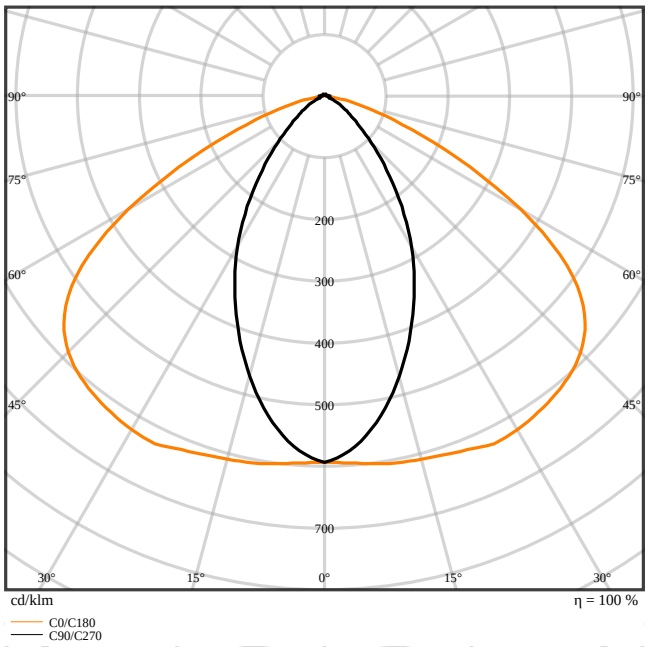
## Photometrical data

| | |
|---|---|
| Luminous flux | 8600 lm |
| Luminous efficacy | 175 lm/W |
| Color temperature | 6500 K |
| Light color (designation) | Cool Daylight |
| Color rendering index Ra | ≥80 |
| Standard deviation of color matching | 3 sdcm |
| Low flicker | Yes |
| Flickering metric (Pst LM) | ≤1 |
| Stroboscope effect metric (SVM) | ≤0.4 |
| Photobiological safety group acc. to EN62778 | RG1 |
| Beam angle | 60 ° |


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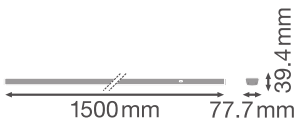

TRUSYS FLEX P 50W 865 N CL WT DALI




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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


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## 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 | Yes |
| Type of dimming | DALI |
| IoT ready | Support of DALI data type PART 251, 252, 253 [1)] |
| Mounting type | Suspended/Surface |
| Mounting location | Mounting rail |
| Application environment | Indoor |
| Mechanically adjustable | No |
| With light source | Yes |
| Replaceable light source | No |

1) 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 [1)] |
| Lifespan L80/B10 at 25 °C | 76000 h [1)] |
| Lifespan L80/B50 at 25 °C | 89000 h |
| Lifespan L90/B10 at 25 °C | 43000 h [1)] |
| Number of switching cycles | 100000 |

1) t[h]: L70 / B50 @ 25 °C (Ta), t[h]: L80 / B10 @ 25 °C (Ta), t[h]: L90 / B10 @ 25 °C (Ta)


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## Control gear

| | |
|---|---|
| Output current | 1050 mA |
| Output ripple current (100 Hz) | < 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 |

## Components for light control

| Components Light Control |
|---|

| Product image | Product name | EAN |
|---|---|---|
|  | MANUAL CONTROL UNIT GROUP DALI-2 TW | 4099854748691 |
|  | 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 |


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| Product image | Product name | EAN |
|---|---|---|
|  | MANUAL CONTROL UNIT TOUCH DALI-2 | 4058075837546 |
|  | PUSH CONTROL UNIT FLUSH MOUNT DALI-2 TW | 4058075837584 |
|  | PUSH CONTROL UNIT FM DALI-2 DIM | 4099854846922 |
|  | 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 CEILING MOUNTING KIT LIGHT/PRESENCE-6 | 4099854748714 |


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| Product image | Product name | EAN |
|---|---|---|
|  | SENSOR DALI-2 LIGHT/PRESENCE-8 INFRARED CEILING INTEGRATION | 4058075841949 |
|  | SENSOR DALI-2 LIGHT/PRESENCE-40X5 INFRARED CEILING INTEGRATION | 4058075843868 |
|  | SENSOR DALI-2 LIGHT/PRESENCE-24 INFRARED CEILING MOUNTING | 4058075843882 |
|  | HIGHBAY SENSOR DALI-2 LIGHT/PRESENCE -21 INFRARED CEILING MOUNTING | 4058075857537 |
|  | DALI sensors -8 IR CI, -40X5 IR CI, -24 IR CM, -21 IR CM | 4058075843905 |
|  | RELAY DALI-2 RAIL MOUNTING | 4099854709159 |
|  | RELAY DALI-2 CEILING MOUNTING | 4099854709135 |
|  | REPEATER DALI-2 RAIL MOUNTING | 4099854709111 |
|  | REPEATER DALI-2 CEILING MOUNTING | 4099854709098 |

## EQUIPMENT / ACCESSORIES

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


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## DOWNLOAD DATA

| | Documents and certificates | Document name |
|---|---|---|
| PDF | User instruction / safety instructions | TRUSYS FLEX DALI 865 |
| PDF | Legal information | Legal insert TRUSYS FLEX DALI |
| PDF | Legal information | LSI TRUSYS FLEX 865 DALI |
| PDF | Legal information | Informationstext 18 Abs 4 ElektroG |
| PDF | Declarations of conformity | TRUSYS FLEX DALI |
| PDF | Declarations of conformity UKCA | TRUSYS FLEX DALI |
| PDF | Certificates | ENEC Certificate Trusys Flex DALI |
| PDF | EU Data Act | DALI LED Driver and Luminaires |

| | Photometric and lighting design files | Document name |
|---|---|---|
| IES | IES file (IES) | TRUSYS FLEX P 50W 865 N CL WT DALI |
| LDT | LDT file (Eulumdat) | TRUSYS FLEX P 50W 865 N CL WT DALI |
| ULD | ULD file (DIALux) | TRUSYS FLEX P 50W 865 N CL WT DALI |
| ROLF | ROLF file (RELUX) | TRUSYS FLEX P 50W 865 N CL WT DALI |
| | UGR file (UGR table) | TRUSYS FLEX P 50W 865 N CL WT DALI |
| | Light distribution curve type cone | TRUSYS FLEX P 50W 865 N CL WT DALI |
| | Light distribution curve type polar | TRUSYS FLEX P 50W 865 N CL WT DALI |

| | CAD/BIM files | Document name |
|---|---|---|
| RFA | BIM Revit 3D | TRUSYS FLEX |
| STEP | CAD STEP 3D | TruSys FLEX |


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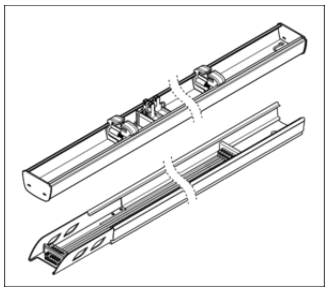
| | Tender texts | Document name |
|---|---|---|
| | Tender documents | TruSys FLEX NARROW 50W 865 N CL WT DALI-EN |

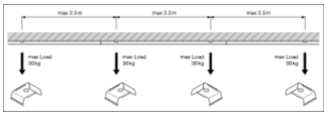
## LOGISTICAL DATA

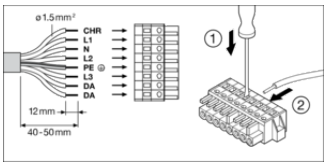
| Product code | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume |
|---|---|---|---|---|
| 4099854191336 | Folding box<br>1 | 108 mm x 1,534 mm x 102 mm | 1925.00 g | 16.90 $dm^3$ |
| 4099854191343 | Shipping box<br>4 | 1,547 mm x 218 mm x 231 mm | 8493.00 g | 77.90 $dm^3$ |

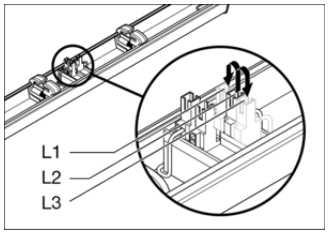
The mentioned product code describes the smallest quantity unit which can be ordered. One shipping unit can contain one or more single products. When placing an order, for the quantity please enter single or multiples of a shipping unit.

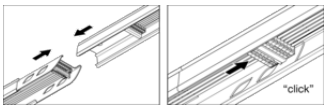
## ADDITIONAL CATALOG INFORMATION

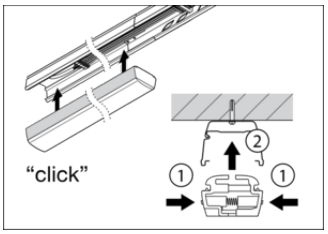







## References / Links

– For Guarantee see www.ledvance.com/guarantee

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