# PRODUCT DATASHEET
# TRUSYS FLEX P 50W 840 DS CL WT EM

TruSys® FLEX EMERGENCY DOUBLE ASYMMETRIC | Luminaire inserts with double asymmetric light distribution for standard and emergency lighting, up to 175 lm/W



PERFOR-MANCE CLASS

## Areas of application

- Emergency illumination of escape routes
- Antipanic lighting
- Buildings requiring up to 3 h emergency light operation
- Direct replacement for luminaires with fluorescent lamps
- Industry halls, high rack warehouse, hardware stores

## Product benefits

- Seamless integration of luminaires with emergency lighting function into general lighting
- Easy wiring thanks to included prewired driver and battery for Emergency lighting function
- Simple testing of luminaires with emergency lighting function thanks to integrated automatic test function
- Convenient visualization of results of automatic test with an included control LED
- Operation of integrated emergency lighting function with long life LiFePO4 battery with 3h battery discharge time
- 3 years guarantee
- Double directed light distribution for shelf illumination
- Easy installation, no tools required for connection
- Flexible application due to a range of different lumen packages and beam angles

## Product features

- Certified according to European norms (EN 60598-1:2015; EN 60598-2-22:2014)
- Luminaire suitable for normal lighting and emergency lighting
- Self-contained luminaires
- Emergency lighting function: battery discharge time of 3 h
- Function test of emergency lighting: automatic (AT)
- Battery technology: LiFePO4


© 2026, LEDVANCE GmbH. All rights reserved.

- Beam angle double asymmetric: 2x30°
- Click into place solution with smart click buttons
- Fixed luminare taps
- Steel-sheet housing


© 2026, LEDVANCE GmbH. All rights reserved.

# TECHNICAL DATA

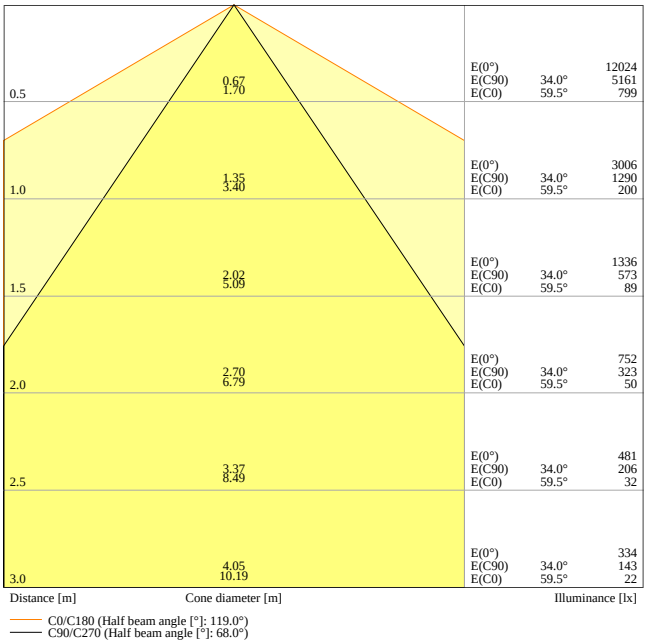
## Electrical data

| | |
|---|---|
| Nominal wattage | 50.00 W |
| Nominal voltage | 220…240 V |
| Mains frequency | 50…60 Hz |
| Nominal current | 230 mA |
| Inrush current | 32 A |
| Inrush current time $T_{h50}$ | 182 µs |
| 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 λ | ≥0.95 |
| Maximum total harmonic distortion | ≤ 15 % |
| Protection class | I |
| Operating mode | Integrated LED driver |

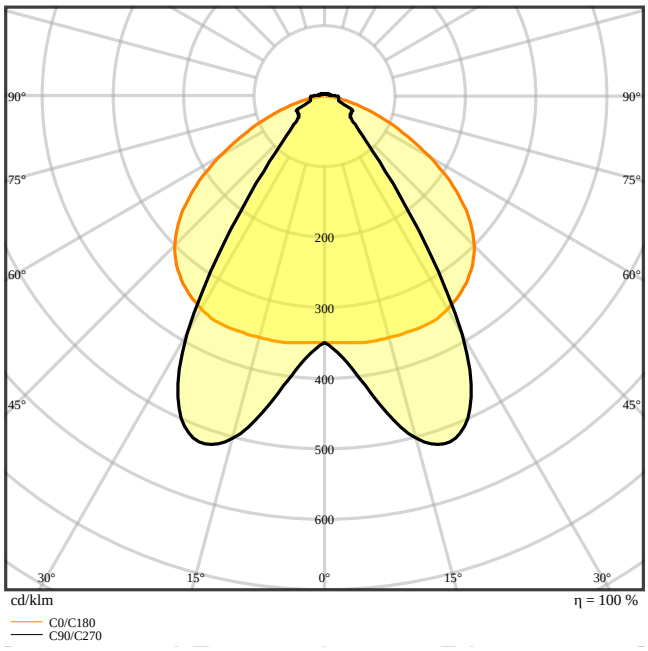
## Photometrical data

| | |
|---|---|
| Luminous flux | 8600 lm |
| Luminous efficacy | 175 lm/W |
| Color temperature | 4000 K |
| Light color (designation) | Cool White |
| Color rendering index Ra | ≥80 |
| Standard deviation of color matching | 3 sdcm |
| Low flicker | Yes |
| Photobiological safety group acc. to EN62778 | RG1 |
| Beam angle | 2 x 30 ° |


© 2026, LEDVANCE GmbH. All rights reserved.



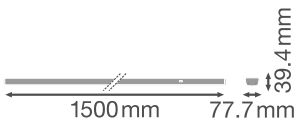

TRUSYS FLEX P 50W 840 DS CL WT EM




TRUSYS FLEX P 50W 840 DS CL WT EM

## Dimensions & Weight

| | |
|---|---|
| Length | 1500.00 mm |
| Width | 77.70 mm |
| Height | 39.40 mm |
| Product weight | 2360.00 g |




TRUSYS FLEX luminaire - clear


© 2026, LEDVANCE GmbH. All rights reserved.

## 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 | 0…+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 |
| Mechanically adjustable | No |
| With light source | Yes |
| Replaceable light source | No |

## 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 | 38000 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)

## Control gear

| | |
|---|---|
| Output current | 620 mA |
| Output ripple current (100 Hz) | < 5 % |


© 2026, LEDVANCE GmbH. All rights reserved.

## BATTERY

| | |
|---|---|
| Type of Battery | LiFePO4 |
| Battery size [GMS] | Others |
| Nominal voltage of battery | 3.2 V |
| Nominal capacity of battery | 9000 mAh |
| Battery charging time | 24 h |

## Emergency lighting

| | |
|---|---|
| Type of Emergency Lighting (EL) | EL unit (battery and controller) for decentral operation included |
| Area of emergency application | Anti-panic lighting / Escape route lighting |
| Type of emergency light operation | Non-maintained / Maintained |
| Type of emergency operation test | Automatic |
| Wattage in maintained operation mode | 50 W |
| Wattage in emergency operation mode | 4 W |
| Luminous flux in maintained operation mode | 8600 lm |
| Luminous flux in emergency operation mode | 740 lm |
| Battery life in emergency operation mode | 3 h |

## 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 8-pole cable

## DOWNLOAD DATA

| | Documents and certificates | Document name |
|---|---|---|
| PDF | User instruction / safety instructions | UI TRUSYS FLEX P EM |
| PDF | User instruction / safety instructions | TRUSYS FLEX EMERGENCY 840 |
| PDF | Legal information | Light Source Insert Trusys Flex EM |
| PDF | Legal information | Legal insert TRUSYS FLEX P EM |
| PDF | Legal information | Informationstext 18 Abs 4 ElektroG |


© 2026, LEDVANCE GmbH. All rights reserved.

| | Documents and certificates | Document name |
|---|---|---|
| PDF | Declarations of conformity | CE Declaration Trusys Flex P EM |
| PDF | Declarations of conformity UKCA | UKCA Declaration Trusys Flex P EM |
| PDF | Certificates | ENEC TRUSYS FLEX P EM |

| | Photometric and lighting design files | Document name |
|---|---|---|
| IES | IES file (IES) | TRUSYS FLEX P 50W 840 DS CL WT EM |
| LDT | LDT file (Eulumdat) | TRUSYS FLEX P 50W 840 DS CL WT EM |
| ULD | ULD file (DIALux) | TRUSYS FLEX P 50W 840 |
| ROLF | ROLF file (RELUX) | TRUSYS FLEX P 50W 840 DS CL WT EM |
| | UGR file (UGR table) | TRUSYS FLEX P 50W 840 DS CL WT EM |
| | Light distribution curve type cone | TRUSYS FLEX P 50W 840 DS CL WT EM |
| | Light distribution curve type polar | TRUSYS FLEX P 50W 840 DS CL WT EM |

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

| | Tender texts | Document name |
|---|---|---|
| TXT | Tender documents | TruSys FLEX EMERGENCY DOUBLE ASYMMETRIC 50W 840 DS CL WT EM-EN |

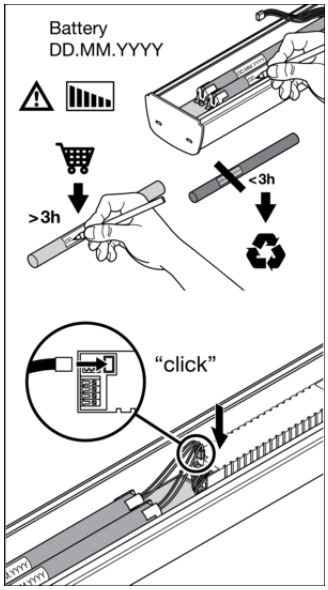
## LOGISTICAL DATA

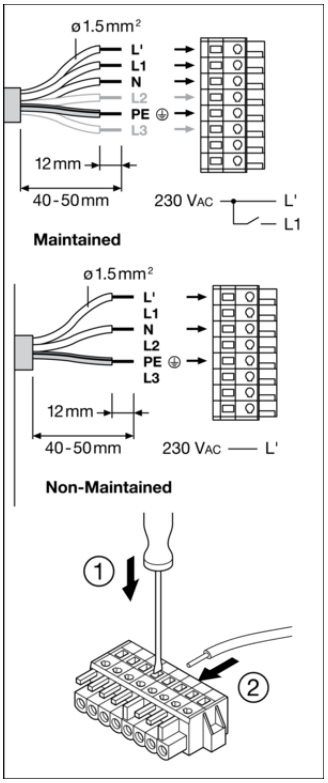
| Product code | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume |
|---|---|---|---|---|
| 4058075773165 | Folding box<br>1 | 108 mm x 1,534 mm x 102 mm | 2535.00 g | 16.90 $dm^3$ |
| 4058075773172 | Shipping box<br>4 | 1,547 mm x 218 mm x 231 mm | 10933.00 g | 77.90 $dm^3$ |


© 2026, LEDVANCE GmbH. All rights reserved.

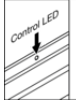
The mentioned product code describes the smallest quantity unit which can be ordered. One shipping unit can contain one or more single products. When placing an order, for the quantity please enter single or multiples of a shipping unit.

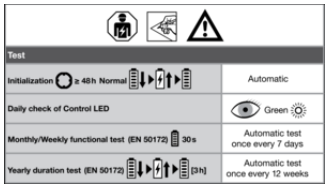
## ADDITIONAL CATALOG INFORMATION

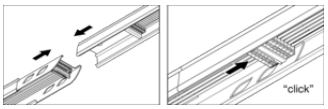


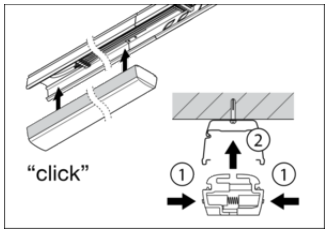




| Luminaire Status | Control LED |
|---|---|
| Normal | Green |
| Emergency | OFF |
| Testing | Green: ( 1s, 1s, 1s ...) |
| Battery connection fault | Red: ( 1s, 1s, 1s ...) |
| Battery capacity fault | Red |
| Luminaire fault | Red: ( 4s, 4s, 4s ...) |




## References / Links

– For Guarantee see www.ledvance.com/guarantee

## DISCLAIMER

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


© 2026, LEDVANCE GmbH. All rights reserved.