PRODUCT DATASHEET
TRUSYS FLEX P 50W 865 W OP WT EM

TruSys® FLEX EMERGENCY WIDE OPAL | Luminaire inserts with wide light distribution for standard and emergency lighting, with opal lense, up to 167 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 compact 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
- Opal cover above LEDs for homogeneous illumination and minimized glare
- 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 wide: 90° with opal lens
- Click into place solution with smart click buttons
- Fixed luminare taps
- Steel-sheet housing

© 2026, LEDVANCE GmbH. All rights reserved.

TECHNICAL DATA

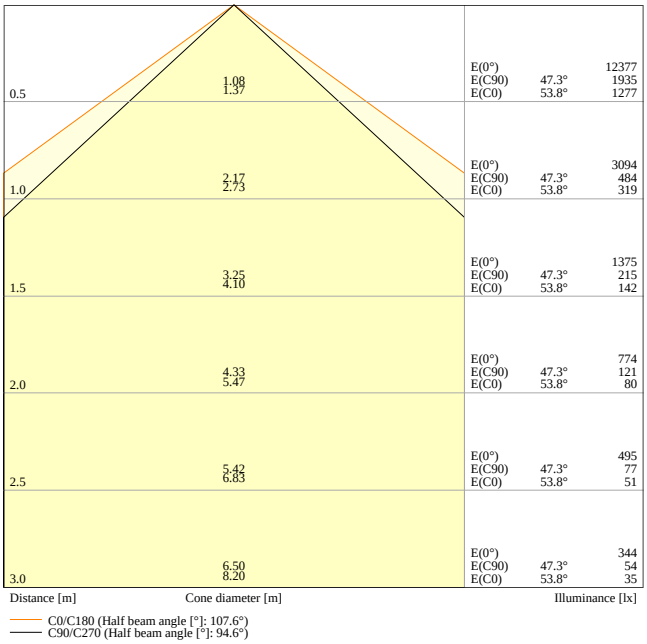
Electrical data

Nominal wattage	50.00 W
Nominal voltage	220…240 V
Mains frequency	50…60 Hz
Nominal current	230.000 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

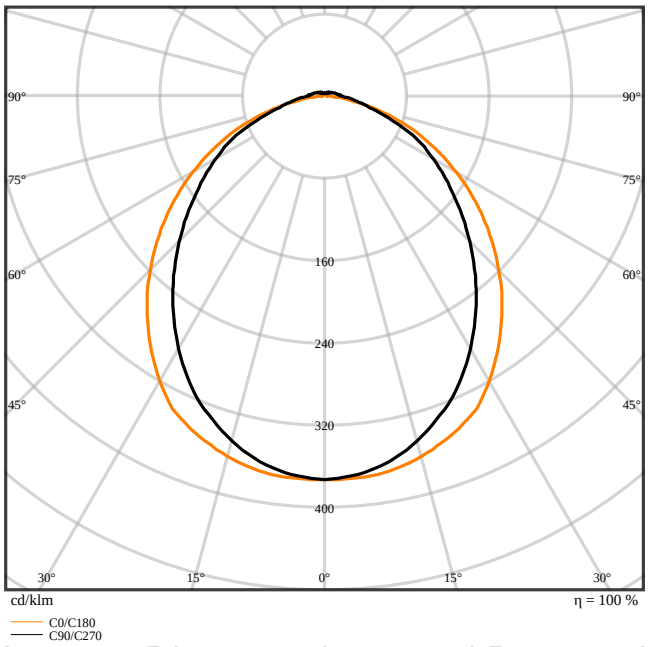
Photometrical data

Luminous flux	8300 lm
Luminous efficacy	167 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	90 °

© 2026, LEDVANCE GmbH. All rights reserved.



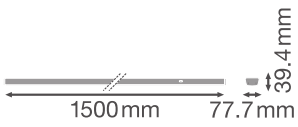
TRUSYS FLEX P 50W 865 W OP WT EM



TRUSYS FLEX P 50W 865 W OP WT EM

Dimensions & Weight

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



TRUSYS FLEX luminaire - opal

© 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	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)

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	8300 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
Replaceable light source (EPREL)	Not replaceable

EQUIPMENT / ACCESSORIES

– Mounting rail with fixed integrated 8-pole cable

DOWNLOAD DATA

	Documents and certificates	Document name
PDF	User instruction / safety instructions	TRUSYS FLEX EMERGENCY 865
PDF	Legal information	Legal insert TRUSYS FLEX P EM
PDF	Legal information	LSI TRUSYS FLEX 865 EM
PDF	Legal information	Informationstext 18 Abs 4 ElektroG

© 2026, LEDVANCE GmbH. All rights reserved.

	Documents and certificates	Document name
PDF	Declarations of conformity	TRUSYS FLEX EM
PDF	Declarations of conformity UKCA	TRUSYS FLEX EM
PDF	Certificates	ENEC Certificate Trusys Flex EM

	Photometric and lighting design files	Document name
IES	IES file (IES)	TRUSYS FLEX P 50W 865 W OP WT EM
LDT	LDT file (Eulumdat)	TRUSYS FLEX P 50W 865 W OP WT EM
ULD	ULD file (DIALux)	TRUSYS FLEX P 50W 865 W OP WT EM
ROLF	ROLF file (RELUX)	TRUSYS FLEX P 50W 865 W OP WT EM
	UGR file (UGR table)	TRUSYS FLEX P 50W 865 W OP WT EM
	Light distribution curve type cone	TRUSYS FLEX P 50W 865 W OP WT EM
	Light distribution curve type polar	TRUSYS FLEX P 50W 865 W OP 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 WIDE OPAL 50W 865 W OP WT EM-EN

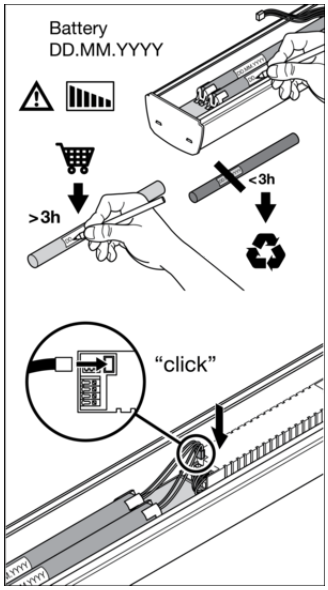
LOGISTICAL DATA

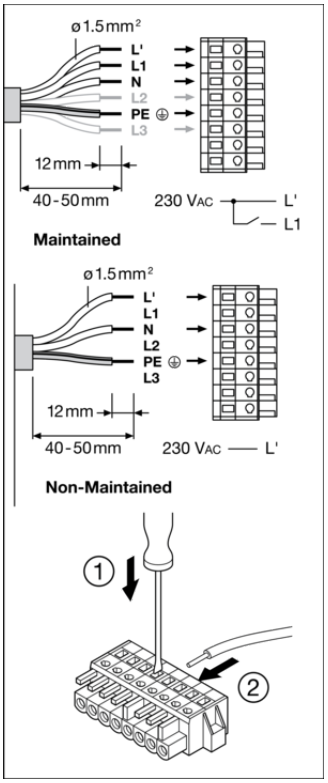
Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4099854191879	Folding box 1	108 mm x 1,534 mm x 102 mm	2535.00 g	16.90 dm^3
4099854191886	Shipping box 4	1,547 mm x 218 mm x 231 mm	10933.00 g	77.90 dm^3

© 2026, LEDVANCE GmbH. All rights reserved.

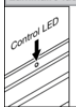
The mentioned product code describes the smallest quantity unit which can be ordered. One shipping unit can contain one or more single products. When placing an order, for the quantity please enter single or multiples of a shipping unit.

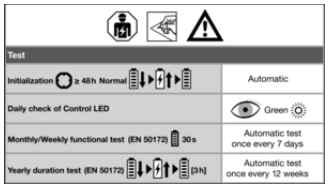
ADDITIONAL CATALOG INFORMATION

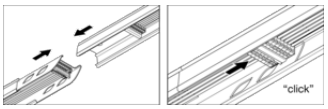




Luminaire Status	Control LED
Normal	Green
Emergency	OFF
Testing	Green: (1s, 1s, 1s ...)
Battery connection fault	Red: (1s, 1s, 1s ...)
Battery capacity fault	Red
Luminaire fault	Red: (4s, 4s, 4s ...)







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.