

# PRODUCT DATASHEET

## TRUSYS FLEX P 35W 840 W OP WT EM

TruSys® FLEX EMERGENCY WIDE OPAL | Luminaire inserts with wide light distribution for standard and emergency lighting, with opal lens, up to 167 lm/W



### 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
- High luminous efficacy in normal operation
- 3 years guarantee
- Opal cover above LEDs for homogeneous illumination and minimized glare
- 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

### Product features

- Certified according to European norms (EN 60598-1:2015; EN 60598-2-22:2014)



- Luminaire suited 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
- Beam angle wide: 90° with opal lens
- Click into place solution with smart click buttons
- Fixed luminaire taps
- Steel-sheet housing

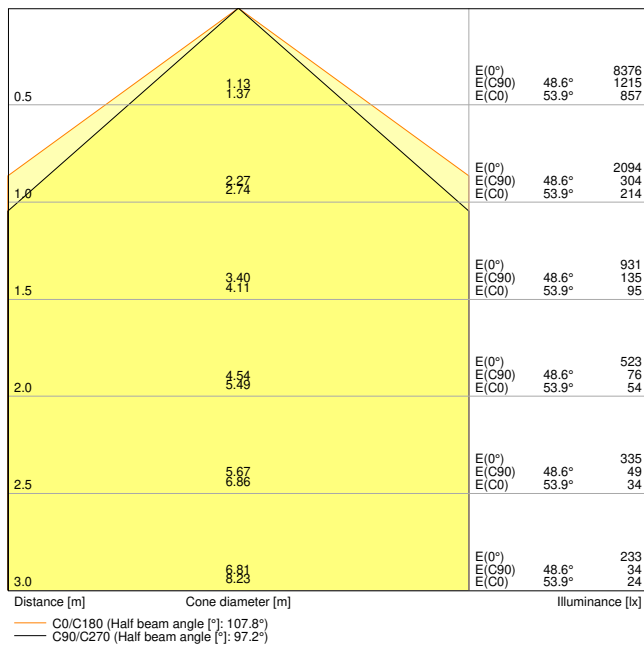
## TECHNICAL DATA

### Electrical data

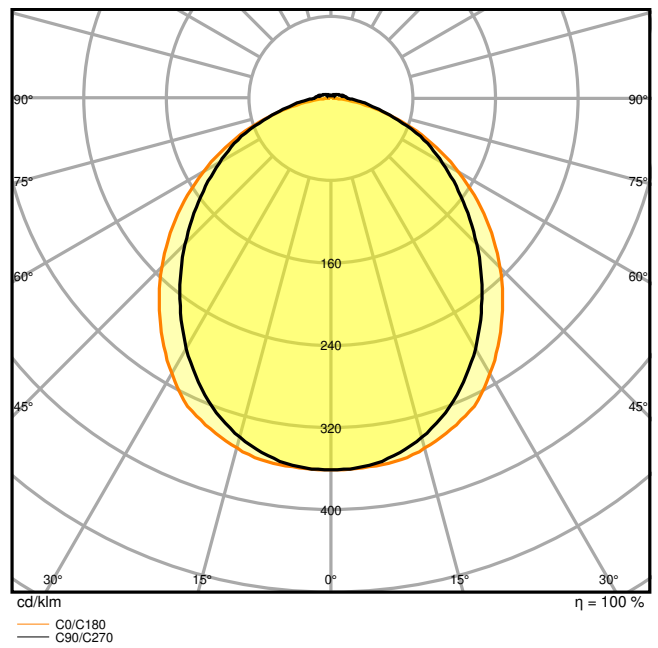
Nominal wattage	35.00 W
Nominal voltage	220...240 V
Mains frequency	50...60 Hz
Nominal current	160 mA
Inrush current	27.5 A
Inrush current time $T_{h50}$	148 $\mu$ s
Max. number of luminaires per miniature circuit breaker B16	22
Max. number of luminaires per miniature circuit breaker C10	17
Max. number of luminaires per miniature circuit breaker C16	27
Power factor $\lambda$	$\geq 0.95$
Total harmonic distortion	$\leq 15\%$
Protection class	I
Operating mode	Integrated LED driver

### Photometrical data

Luminous flux	5800 lm
Luminous efficacy	167 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
Photobiological safety group acc. to EN62778	RG1
Beam angle	90 °



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Dimensions & Weight

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



TRUSYS FLEX luminaire - opal

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	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
Adjustable	No
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 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	430 mA
ECG - Output ripple current	< 5 %

### 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

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	35.0 W
Wattage in emergency operation mode	4 W
Luminous flux in maintained operation mode	5800 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
	User instruction / safety instructions	UI TRUSYS FLEX P EM
	User instruction / safety instructions	TRUSYS FLEX EMERGENCY 840
	Legal information	Light Source Insert Trusys Flex EM
	Legal information	Legal insert TRUSYS FLEX P EM
	Legal information	Informationstext 18 Abs 4 ElektroG

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

Photometric and lighting design files		Document name
	IES file (IES)	TRUSYS FLEX P 35W 840 W OP WT EM
	LDT file (Eulumdat)	TRUSYS FLEX P 35W 840 W OP WT EM
	ULD file (DIALux)	TRUSYS FLEX P 35W 840 W OP WT
	ROLF file (RELUX)	TRUSYS FLEX EM WIDE OPAL 35W 840W PO WT
	UGR file (UGR table)	TRUSYS FLEX P 35W 840 W OP WT EM
	Light distribution curve type cone	TRUSYS FLEX P 35W 840 W OP WT EM
	Light distribution curve type polar	TRUSYS FLEX P 35W 840 W OP WT EM

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

Tender texts		Document name
	Tender documents	TruSys FLEX EMERGENCY WIDE OPAL 35W 840 W OP WT EM-EN

**LOGISTICAL DATA**

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4058075772977	Folding box 1	108 mm x 1,534 mm x 102 mm	2535.00 g	16.90 dm <sup>3</sup>
4058075772984	Shipping box 4	1,547 mm x 218 mm x 231 mm	10933.00 g	77.90 dm <sup>3</sup>

