PRODUCT DATASHEET
SP FP FIX P 8W 940 PS DIM IP65 WT

SPOT FIRE RATED | Recessed mounted spotlight for certain fire-resistant ceilings, fixed



Areas of application

- Direct replacement for recessed spotlights with halogen lamps
- Fire resistent ceilings
- Hotel rooms and corridors
- Bars, restaurants
- Galleries, museums

Product benefits

- Fire-rated: Designed and tested to meet fire rating standards (in certain fire rated ceilings)
- Airtight construction for reduced air-leakage and limited energy loss
- Multi Lumen: Brightness adjustment via dip switches on the driver
- Easy replacement of external driver thanks to plug with bayonet lock
- Easy installation and electrical connection thanks to tool-free electrical connectors
- SCALE Design – great appearance, valuable materials and small size fits into every surrounding
- 5 years guarantee

Product features

- Color rendering index R_a: 90
- Type of protection: IP65 (room side)
- Beam angle: 36°
- Die-cast aluminum housing
- Thermal expansion ribbon already preinstalled
- Silicon-pad protected springs
- Dimmable (with many common dimmers, see also www.ledvance.com/dim)
- Through-wiring possible

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TECHNICAL DATA

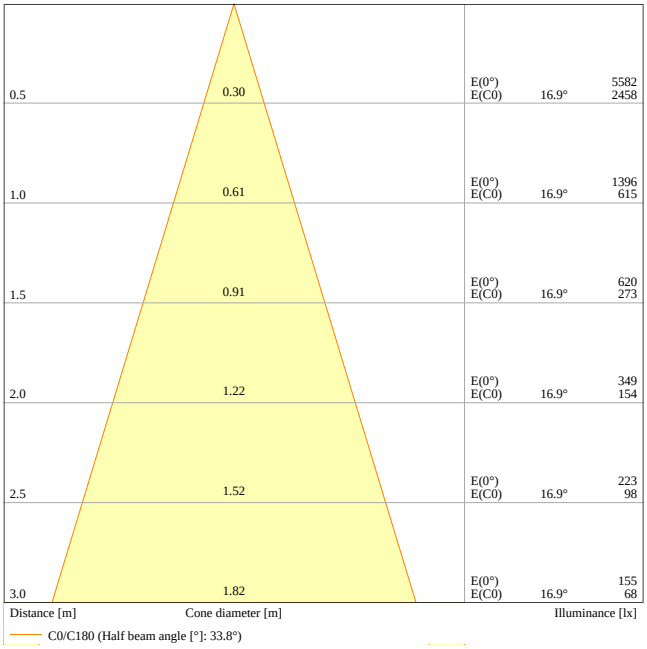
Electrical data

Nominal wattage	8 W / 6 W / 4 W
Nominal voltage	220…240 V
Mains frequency	50…60 Hz
Nominal current	37mA / 28mA / 20 mA
Inrush current	2 A
Inrush current time T_{h50}	60 µs
Max. number of luminaires per miniature circuit breaker B16	336
Max. number of luminaires per miniature circuit breaker C10	210
Max. number of luminaires per miniature circuit breaker C16	336
Power factor λ	0.90
Maximum total harmonic distortion	< 20 %
Protection class	II
Surge capability (L-N)	1 kV
Surge capability (L/N-Ground)	1 kV
Operating mode	Electronic control gear (ECG)
Dimming interface	Phase Cut

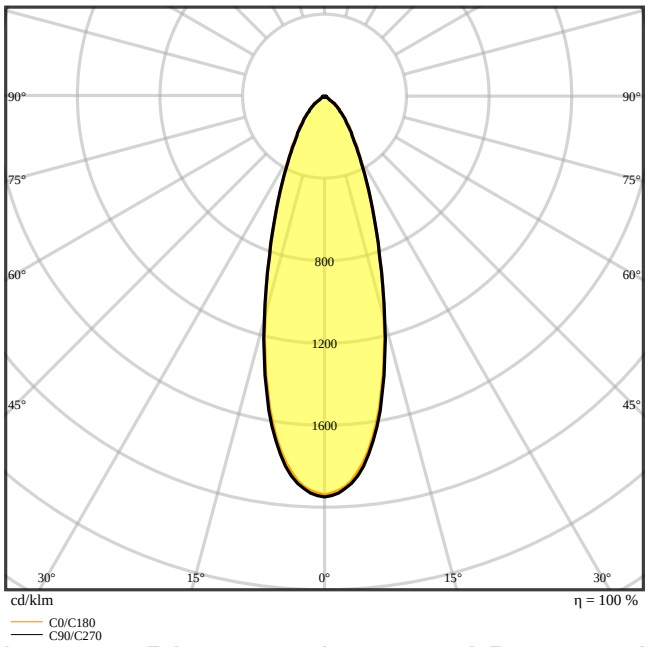
Photometrical data

Luminous flux	720 lm / 540 lm / 360 lm
Total luminous flux of contained light sources	620 lm
Luminous efficacy	90 lm/W
Color temperature	4000 K
Reference control setting of contained light source (Kelvin)	4000 K
Light color (designation)	Cool White
Color rendering index Ra	90
Standard deviation of color matching	≤3 sdcm
Luminous intensity	1400 cd
Low flicker	Yes
Flickering metric (Pst LM)	< 1
Stroboscope effect metric (SVM)	<0.4
Photobiological safety group acc. to EN62778	RG1
Beam angle	36 °
UGR	< 28

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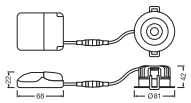
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Dimensions & Weight

Diameter	81.00 mm
Height	42.00 mm
Product weight	250.00 g



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Materials & Colors

Product color	White
Housing color	White
RAL Color (most similar)	RAL 9016
Body material	Aluminum
Cover material	Polymethylmethacrylate (PMMA)

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Light emitting surface material	PMMA
Glow Wire Test according to IEC 60695-2-12	650 °C
Mercury content	0.0 mg

Application & Mounting

Ambient temperature range	-20…+40 °C
Temperature range at storage	-20…+80 °C
Type of connection	Push terminal
Type of protection	IP65~IP20
Protection class IK (shock resistance)	IK05
Dimmable	Yes
Type of dimming	PHASE CUT
Mounting type	Recessed
Mounting location	Ceiling
Application environment	Indoor
Mounting diameter	68 mm
Mounting depth	50,0 mm
Mechanically adjustable	No
With light source	Yes
Replaceable light source	No

Lifespan

Lifespan L70/B50 at 25 °C	50000 h [1)]
Lifespan L80/B10 at 25 °C	41000 h [1)]
Lifespan L80/B50 at 25 °C	41000 h
Lifespan L90/B10 at 25 °C	18000 h [1)]
Number of switching cycles	30000

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	180 mA
Output ripple current (100 Hz)	< 10 %
ECG - Length	68.00 mm
ECG - Width	55,0 mm
ECG - Height	22.00 mm

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Certificates & Standards

Standards	CE / CB / ENEC / TÜV SÜD / UKCA / EAC / EPD
Luminaire with limited surface temperature, "D sign"	No
Ball shot safe	No
EPD	LEDV-00013-V01.01-EN
Replaceable light source (EPREL)	Not replaceable

Additional product data

Added function	MULTI LUMEN

Accessories Optional

Product image	Product name	EAN
	CONNECTOR BOX 3POLE L/N/E	4099854013508
	SP HOLDER DN68 H65	4099854013478

Components for light control

Components Light Control

Product image	Product name	EAN
	MANUAL CONTROL UNIT SELECT DIM	4099854846724
	MANUAL CONTROL UNIT SELECT DIM EXCHANGEABLE	4099854846823
	PUSH CONTROL UNIT FM DALI-2 DIM	4099854846922

EQUIPMENT / ACCESSORIES

- External control gear included with dip-switches to select power during installation
- Selected DALI 2.0 driver available as accessory

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Safety advice

- Coordination with your responsible fire safety inspector is required in advance
- Fire rating tested for 30 min in fire-resistant ceiling RIGIPS SD12RF F30 according EN-1364-2
- Fire rating tested for 60 min in I-Joist ceiling system according BS 476-21
- All electrical connections must be made by a qualified person.
- Caution, risk of electric shock.
- The luminaires are not suitable for covering with thermally insulated material.

DOWNLOAD DATA

	Documents and certificates	Document name
PDF	User instruction / safety instructions	UI SP FP FIX P
PDF	Addon technical information	Dimmerlist SPOT GEN2
PDF	Legal information	Light source Insert SP FP FIX P PS DIM IP65
PDF	Legal information	Informationstext 18 Abs 4 ElektroG
PDF	Legal information	Legal Insert G11147512
PDF	Legal information	Safety Insert G11262697
PDF	Declarations of conformity	CE Declaration of Conformity SPOT DIM
PDF	Declarations of conformity UKCA	UKCA Declaration of Conformity SPOT DIM
PDF	Declarations of conformity UKCA	SP DIM
PDF	Certificates	SP GEN2
PDF	EPD	EPD EN SPOTLIGHT FIX GEN 2 FIRE RATED

	Photometric and lighting design files	Document name
IES	IES file (IES)	SP FP FIX P 8W 940 PS DIM IP65 WT
LDT	LDT file (Eulumdat)	SP FP FIX P 8W 940 PS DIM IP65 WT
ULD	ULD file (DIALux)	SP FP FIX P 8W 940 PS DIM

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	Photometric and lighting design files	Document name
	ROLF file (RELUX)	SP FP FIX P 8W 940 PS DIM
	UGR file (UGR table)	SP FP FIX P 8W 940 PS DIM IP65 WT
	Light distribution curve type cone	SP FP FIX P 8W 940 PS DIM IP65 WT
	Light distribution curve type polar	SP FP FIX P 8W 940 PS DIM IP65 WT

	CAD/BIM files	Document name
	BIM Revit 3D	SP FP FIX G2
	CAD STEP 3D	SP FP FIX

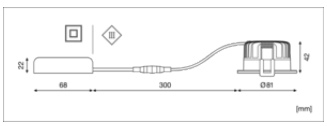
	Tender texts	Document name
	Tender documents	SPOT FIRE RATED 8W 940 PS DIM IP65 WT-EN

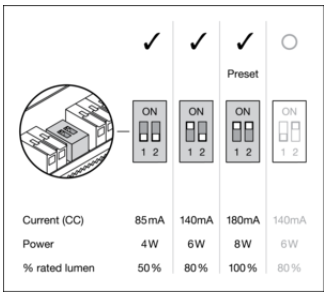
LOGISTICAL DATA

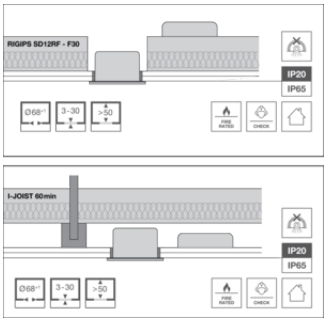
Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4058075799769	Folding box 1	100 mm x 105 mm x 85 mm	294.00 g	0.89 dm^3
4058075799776	Shipping box 20	562 mm x 230 mm x 195 mm	6230.00 g	25.21 dm^3

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







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References / Links

- For Guarantee see www.ledvance.com/guarantee
- Discover our matching phase-cut dimmers www.ledvance.com/phase-cut-dimmers
- For dimming conformity see www.ledvance.com/dim

Legal advice

- Installation hints in the current user instruction (www.ledvance.com) must be observed

DISCLAIMER

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

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