PRODUCT DATASHEET
SP ADJ D83 P 8W ML 930 WT

SPOT ADJUST | Recessed mounted spotlight for indoor use, adjustable



Areas of application

- Direct replacement for recessed spotlights with halogen lamps
- General illumination
- Hotel rooms and corridors
- Bars, restaurants
- Accent lighting
- Galleries, museums
- Residential interiors

Product benefits

- Energy savings of up to 90 % compared to halogen lamp spotlights
- 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

Product features

- Available for ceiling cut-out diameters of 68 mm and 83 mm
- Adjustable swivel angle: ±25°
- Color rendering index R_a: 90
- Beam angle: 36°
- Die-cast aluminum housing
- Silicon-pad protected springs
- Dimmable (with many common dimmers, see also www.ledvance.com/dim)
- Through-wiring possible

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TECHNICAL DATA

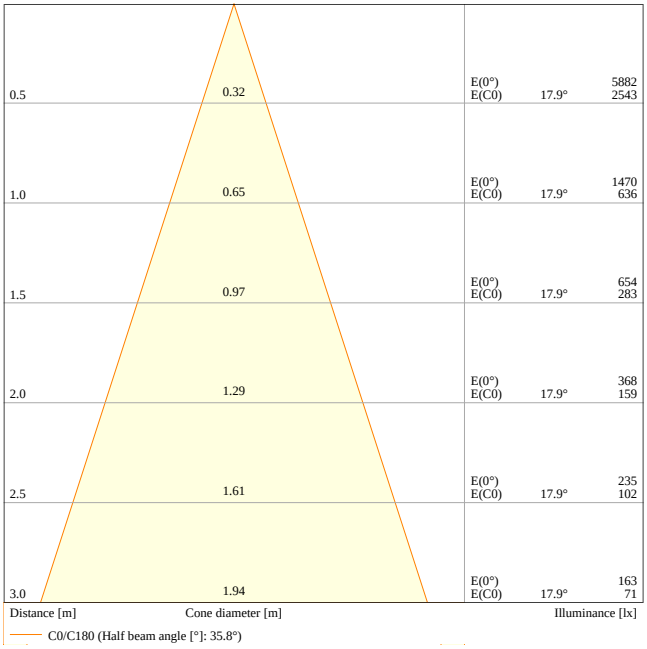
Electrical data

Nominal wattage	8 W / 6 W / 4 W
Nominal voltage	220…240 V
Mains frequency	50…60 Hz
Nominal current	36.000 mA
Inrush current	3 A
Inrush current time T_{h50}	100 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
Operating mode	Electronic control gear (ECG)
Dimming interface	PHASE CUT

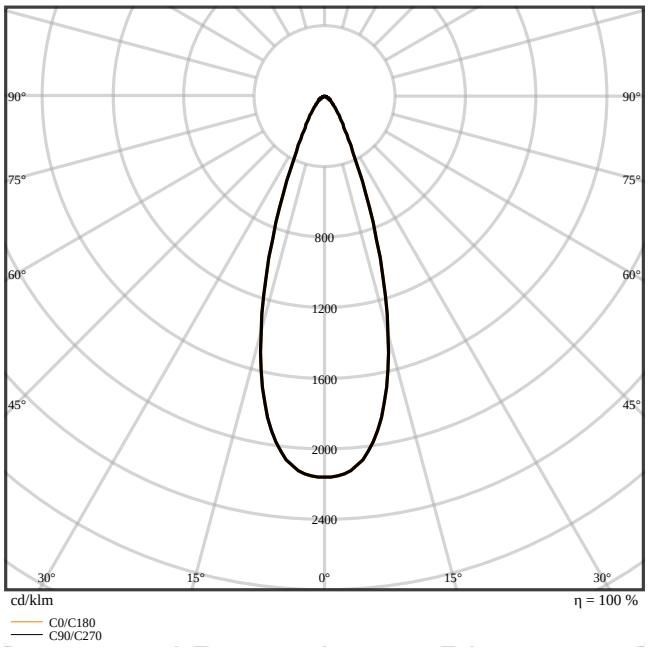
Photometrical data

Luminous flux	680 lm / 530 lm / 350 lm
Luminous efficacy	88 lm/W
Color temperature	3000 K
Light color (designation)	Warm White
Color rendering index Ra	90
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	36 °
UGR	< 28

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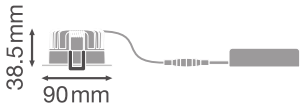
Adjustable attributes

Nominal wattage	Color temperature	Luminous flux	Luminous efficacy
8 W	3000 K	680 lm	85 lm/W
6 W	3000 K	530 lm	88 lm/W
4 W	3000 K	350 lm	88 lm/W

Dimensions & Weight

Diameter	90.00 mm
Height	38.50 mm
Product weight	235.00 g
Cable length	300 mm

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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)
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	IP20/IP20
Protection class IK (shock resistance)	IK03
Dimmable	Yes
Type of dimming	PHASE CUT
Mounting type	Recessed
Mounting location	Ceiling
Application environment	Indoor
Mounting diameter	83 mm
Mounting depth	50 mm
Mechanically adjustable	Yes

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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)	< 5 %
ECG - Length	68 mm
ECG - Width	55 mm
ECG - Height	22.00 mm

Certificates & Standards

Standards	CE / CB / ENEC / TÜV SÜD / UKCA / EAC
Luminaire with limited surface temperature, "D sign"	No
Ball shot safe	No
Replaceable light source (EPREL)	Not replaceable

Additional product data

Added function	MULTI LUMEN

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

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Product image	Product name	EAN
	PUSH CONTROL UNIT FM DALI-2 DIM	4099854846922

EQUIPMENT / ACCESSORIES

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

Safety advice

- 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	SPOT ADJUSTABLE
PDF	Legal information	Informationstext 18 Abs 4 ElektroG
PDF	Legal information	Safety Insert G11205013
PDF	Legal information	SP ADJ D83 P 8W ML 930 WT LEDV
PDF	Declarations of conformity	SP ADJ D83
PDF	Declarations of conformity UKCA	SP ADJ D83
PDF	Certificates	SP ADJ D83

	Photometric and lighting design files	Document name
IES	IES file (IES)	SP ADJ D83 P 8W ML 930 WT LEDV
LDT	LDT file (Eulumdat)	SP ADJ D83 P 8W ML 930 WT LEDV
ULD	ULD file (DIALux)	SP ADJ D83 P 8W ML 930 WT

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	Photometric and lighting design files	Document name
	ROLF file (RELUX)	SP ADJ D83 P 8W ML 930 WT
	UGR file (UGR table)	SP ADJ D83 P 8W ML 930 WT LEDV
	Light distribution curve type cone	SP ADJ D83 P 8W ML 930 WT LEDV
	Light distribution curve type polar	SP ADJ D83 P 8W ML 930 WT LEDV

	CAD/BIM files	Document name
	BIM Revit 3D	Spot Adjust
	CAD STEP 3D	SP ADJ D83 SW

	Tender texts	Document name
	Tender documents	SPOT ADJUST D83 P 8W ML 930 WT-en

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4099854459825	Folding box 1	107 mm x 102 mm x 87 mm	276.00 g	0.95 dm^3
4099854459832	Shipping box 20	540 mm x 215 mm x 185 mm	6111.00 g	21.48 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.

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

DISCLAIMER

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