PRODUCT DATASHEET
DL UNIV SN D200 V 18W ML 83040 WT

DOWNLIGHT UNIVERSAL SENSOR | Semi-recessed downlights suitable for refurbishment of existing ceiling cut-outs with integrated driver and sensor



VALUE CLASS

Areas of application

- Direct replacement for luminaires with compact fluorescent lamps
- Reception areas, foyers, corridors, common areas

Product benefits

- The solution for convenient refurbishment: universal fitting to existing ceiling cut-outs
- Highly versatile due to selectable CCT and lumen steps (Multi Select)
- Simple installation thanks to integrated driver
- Energy savings thanks to high system efficacy: up to 145 lm/W
- Very homogenous light distribution
- Further variants with on/off and DALI-2 driver available

Product features

- Presence and daylight sensor control (PIR)
- Multi Color function: 3000 K and 4000 K
- Multi Lumen function: 2 lumen steps selectable
- Multi Cut-out: adjustable mounting springs for ceiling cut-outs from 65 mm up to 260 mm
- Available in two sizes: 200 mm and 300 mm diameter
- High color consistency: < 4 SDCM



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- Type of protection: IP44 (room side)
- Suitable for through wiring
- Lifetime (L80/B10): up to 50,000 h (at 25 °C)

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TECHNICAL DATA

Electrical data

Nominal wattage	18 W / 9 W
Nominal voltage	220…240 V
Mains frequency	50…60 Hz
Nominal current	83 mA
Inrush current	19.8 A
Inrush current time T_{h50}	2.4 µs
Max. number of luminaires per miniature circuit breaker B16	39
Max. number of luminaires per miniature circuit breaker C10	31
Max. number of luminaires per miniature circuit breaker C16	50
Power factor λ	> 0.90
Total harmonic distortion	< 40 %
Protection class	II
Operating mode	Integrated LED driver

Photometrical data

Luminous flux	2300 lm / 2220 lm / 1180 lm / 1150 lm
Luminous efficacy	130 lm/W / 125 lm/W / 135 lm/W
Color temperature	3000 K / 4000 K
Reference control setting of contained light source (Kelvin)	4000 K
Light color (designation)	Warm White / Cool White
Color rendering index Ra	> 80
Standard deviation of color matching	< 4 sdcm
Low flicker	Yes
Flickering metric (Pst LM)	<1
Stroboscope effect metric (SVM)	<0.4
Photobiological safety group acc. to EN62778	RG0
Beam angle	110 °

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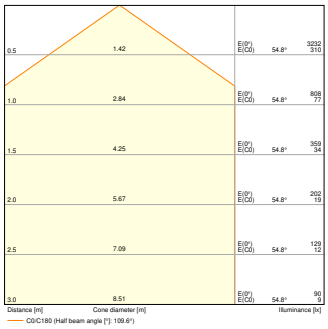
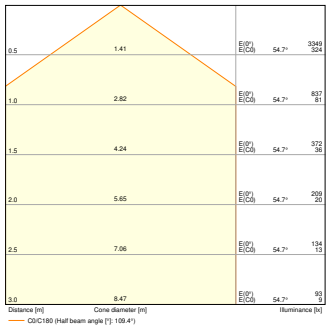


DL UNIV SN D200 V 18W MS 830 WT LEDV



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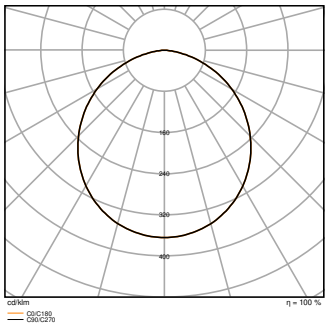

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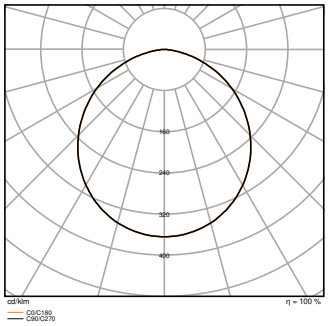

DL UNIV SN D200 V 18W MS 840 WT LEDV

Adjustable attributes

Nominal wattage	Color temperature	Luminous flux	Luminous efficacy
18 W	3000 K	2220 lm	125 lm/W
18 W	4000 K	2300 lm	130 lm/W
9 W	3000 K	1150 lm	130 lm/W
9 W	4000 K	1180 lm	135 lm/W

Dimensions & Weight

Diameter	227.00 mm
Height	22.00 mm
Product weight	470.00 g

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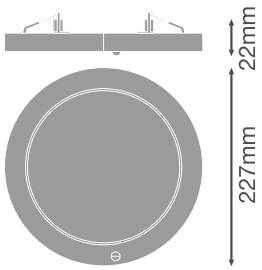

DL UNIV SN D200 V 18W ML
83040 WT

Materials & Colors

Product color	White
Housing color	White
RAL Color (most similar)	RAL 9003
Body material	Polycarbonate (PC)
Cover material	Polycarbonate (PC)
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	Screwless terminal
Type of protection	IP44/IP20
Protection class IK (shock resistance)	IK03
Dimmable	No
Mounting type	Surface/Recessed
Mounting location	Ceiling
Application environment	Indoor
Mounting diameter	65…185 mm
Mounting depth	22,0 mm
Mechanically adjustable	No
With light source	Yes
Replaceable light source	No

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Lifespan

Lifespan L70/B50 at 25 °C	100000 h [1)]
Lifespan L80/B10 at 25 °C	50000 h [1)]
Lifespan L80/B50 at 25 °C	50000 h
Lifespan L90/B10 at 25 °C	40000 h
Number of switching cycles	25000

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	180mA / 90 mA
ECG - Output ripple current	< 10 %
ECG - Height	25 mm

Sensor

Type of sensor	Motion / Light
Sensor technology	Passive infrared (PIR)
Sensor detection angle	120 °
Sensor controlled switching time	5 s…3 min
Detection range of motion sensor	3…6 m
Detection threshold of daylight sensor	10…40 lx

Emergency lighting

Type of emergency operation test	None

Certificates & Standards

Standards	CE / ENEC / UKCA / EAC / EPD
Luminaire with limited surface temperature, "D sign"	No
Ball shot safe	No
EPD	LEDV-00068-V01.01-EN
Replaceable light source (EPREL)	Not replaceable

Additional product data

Added function	MULTI SELECT

Accessories Optional

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Product image	Product name	EAN
	DL UNIV SN RING D200 BK	4099854559457
	DL UNIV SN RING D200 BN	4099854559471

EQUIPMENT / ACCESSORIES

- Additional cover rings separately available in round shape and in different colors
- Safety rope for luminaire included

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	G11249993 DOWNLIGHT UNIVERSAL
PDF	Legal information	Informationstext 18 Abs 4 ElektroG
PDF	Legal information	Safety Insert G11207793
PDF	Legal information	G11252354 Light source insert
PDF	Legal information	Legal insert DL UNIV
PDF	Declarations of conformity	CE declaration DL UNIV
PDF	Declarations of conformity UKCA	UKCA declaration DL UNIV
PDF	EPD	EPD EN DOWNLIGHT UNIVERSAL

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	Photometric and lighting design files	Document name
	IES file (IES)	DL UNIV SN D200 V 18W MS 830 WT LEDV
	IES file (IES)	DL UNIV SN D200 V 18W MS 840 WT LEDV
	LDT file (Eulumdat)	DL UNIV SN D200 V 18W MS 830 WT LEDV
	LDT file (Eulumdat)	DL UNIV SN D200 V 18W MS 840 WT LEDV
	UGR file (UGR table)	DL UNIV SN D200 V 18W MS 830 WT LEDV
	UGR file (UGR table)	DL UNIV SN D200 V 18W MS 840 WT LEDV
	Light distribution curve type cone	DL UNIV SN D200 V 18W MS 830 WT LEDV
	Light distribution curve type cone	DL UNIV SN D200 V 18W MS 840 WT LEDV
	Light distribution curve type polar	DL UNIV SN D200 V 18W MS 830 WT LEDV
	Light distribution curve type polar	DL UNIV SN D200 V 18W MS 840 WT LEDV

	CAD/BIM files	Document name
	BIM Revit 3D	Downlight-Universal
	CAD STEP 3D	DL UNIV SN D200

	Tender texts	Document name
	Tender documents	DOWNLIGHT UNIVERSAL SENSOR D200 V 18W ML 83040 WT-en

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4099854541414	Folding box 1	245 mm x 235 mm x 60 mm	606.00 g	3.45 dm^3
4099854541421	Shipping box 14	509 mm x 447 mm x 262 mm	9534.00 g	59.61 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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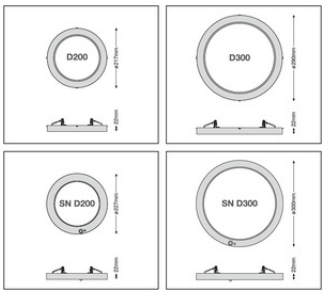

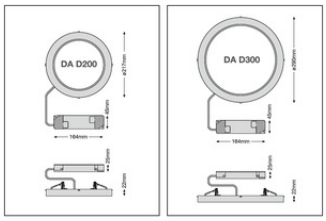

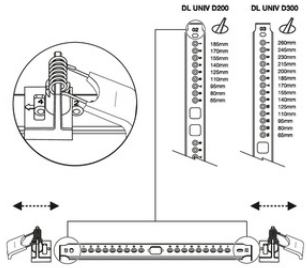

References / Links

– For Guarantee see www.ledvance.com/guarantee

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