

LUM – Technical Information

OSRAM PUNCTOLED DL® 150 3000K
OSRAM PUNCTOLED DL® 150 4000K
OSRAM PUNCTOLED DL® 150 3000K Silver
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OSRAM PUNCTOLED DL® 200 3000K
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The OSRAM PUNCTOLED® DL allow the direct replacement of traditional CFL-downlights with 1x26 and 2x26W. Their high efficiency and long lifetime allows high energy savings and a quick return on investment. PUNCTOLED® DL are the perfect solution for corridors, stairways and restrooms.

Tender text

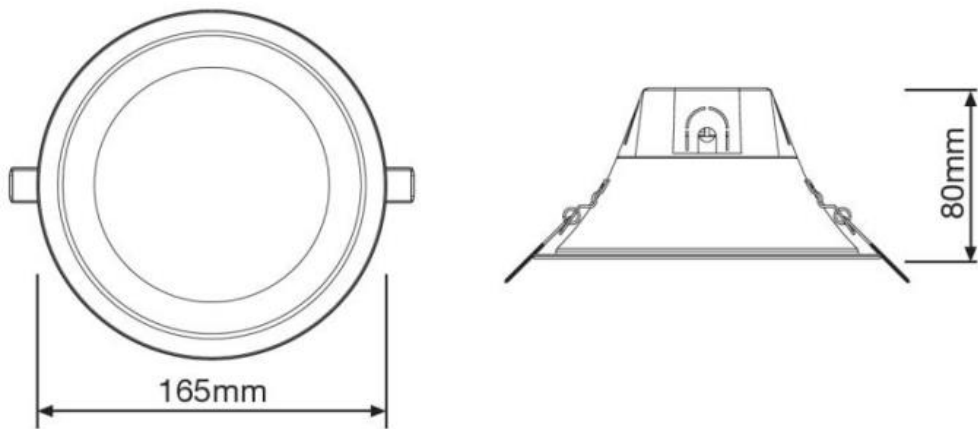
- Direct replacement of 1x26W, 2x26W CFL-downlights (dimension & lumen output)
- Diffuse optics
- Direct connection to mains thanks to the integrated driver
- Suitable for recessed ceilings and concrete boxes with and without tunnel

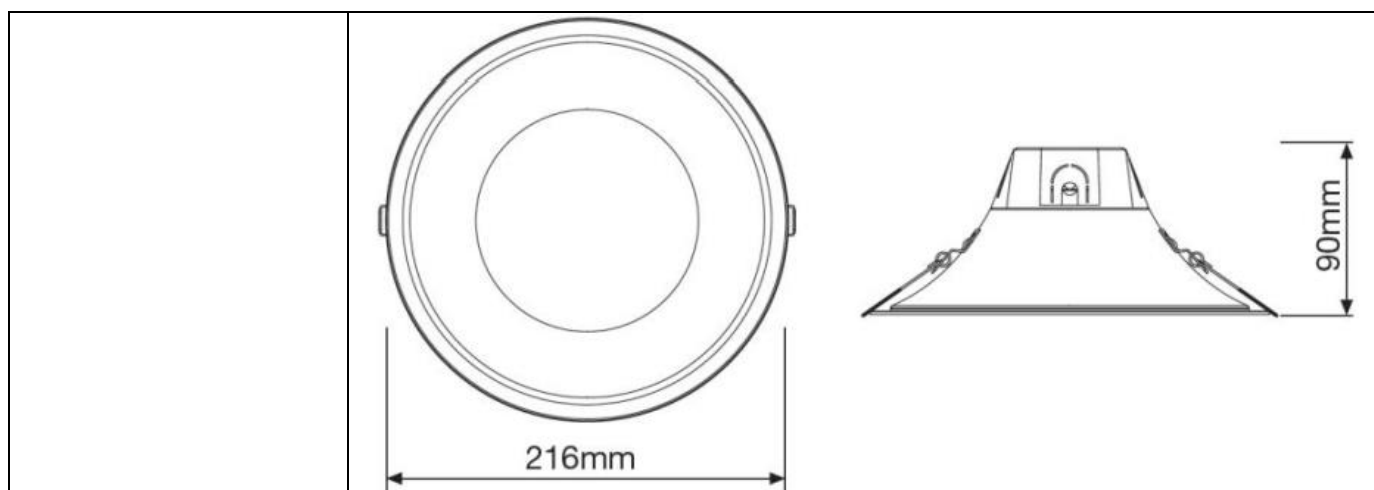
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A) Technical Information

1) Housing, Mounting and Accessories

Product name	OSRAM PUNCTOLED® DL 150 3000K	OSRAM PUNCTOLED® DL 150 4000K	OSRAM PUNCTOLED® DL 200 3000K	OSRAM PUNCTOLED® DL 200 4000K
Body material	Aluminum			
Color of the luminaire (RAL)	White (RAL 9016) Silver (RAL 9023)			
Cover material	PP			
Type of cover	Diffuser			
Reflector material	---			
Symmetry	Round			
Adjustable	No			
Dimensions LxBxH [mm]	Ø 165 x 80	Ø 165 x 80	Ø 216 x 90	Ø 216 x 90
OSRAM PUNCTOLED® DL 150  OSRAM PUNCTOLED® DL 200				



Mounting type	Recessed			
Mounting hole [mm]	Ø 150	Ø 150	Ø 200	Ø 200
Installation height [mm]	100	100	110	110
Ceiling thickness [mm]	2 - 20	2 - 20	2 - 20	2 - 20
Net weight [g]	188	188	234	234
Protection class	I			
Type of protection (IP code)	20			
Protection against ignition and fire	F			
Shock resistance (IK code)	---			
Load-bearing capacity	---			
Ambient temperature [°C]	-20...40			
Storage temperature [°C]	-20...80			
Body temperature [°C]	≤ 60			
Luminaire efficiency [lm/W]	80			
Power factor	≥ 0,9			
Approval marks	CE			
Environment	RoHS			

Installation in concrete ceilings

PUNCTOLED DL Downlights are suitable for the installation in concrete ceilings. The concrete installation housings specified below from KAISER Elektro are recommended. For further details, for example relating to slab ceilings or exposed concrete, please contact your specialist dealer or refer to www.kaiser-elektro.de

Name	Art. No.
KompaX 1	1293-xx
KompaX 2	1292-xx
KompaX 3	1294-xx

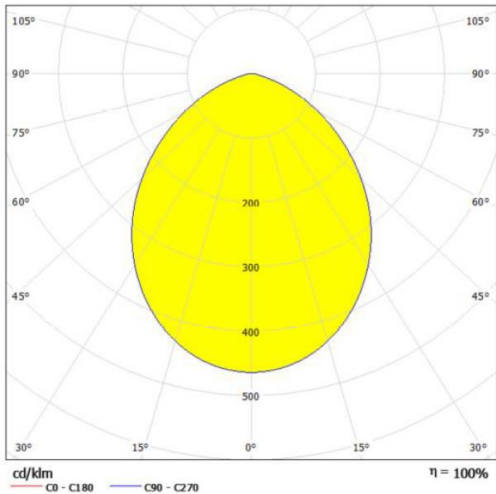
* slight luminous flux decline when installed in concrete installation housing

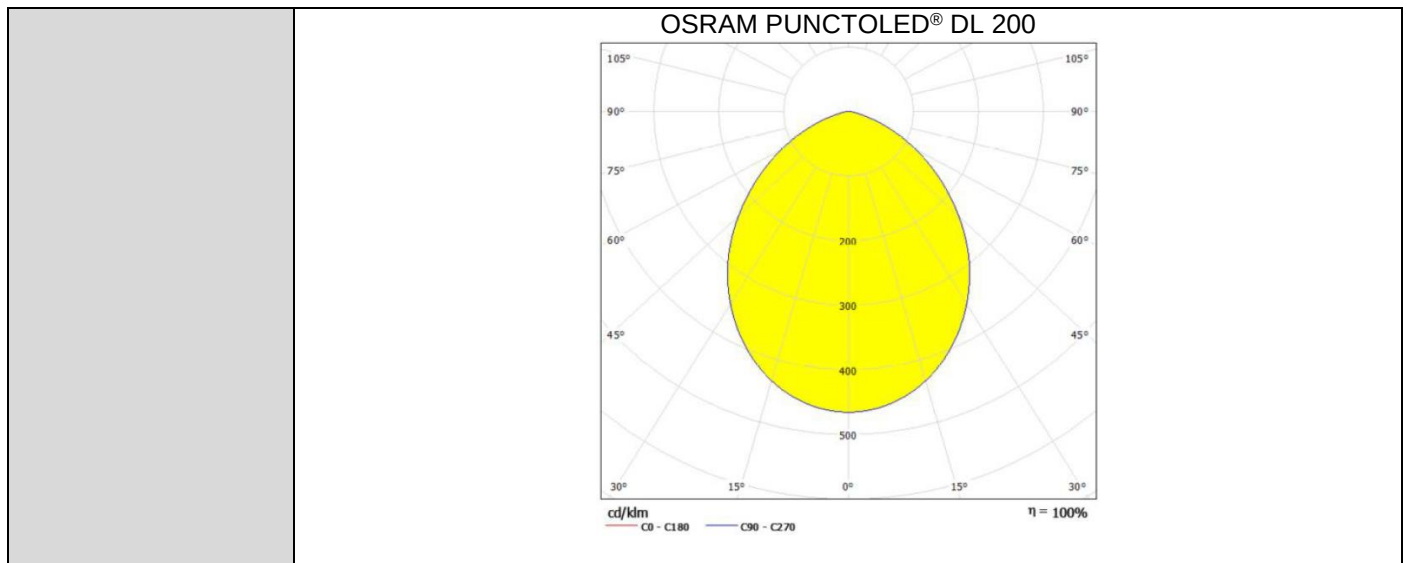
2) Electrical Installation

- Connection with mains power in accordance with national regulations

Product name	OSRAM PUNCTOLED® DL 150 3000K	OSRAM PUNCTOLED® DL 150 4000K	OSRAM PUNCTOLED® DL 200 3000K	OSRAM PUNCTOLED® DL 200 4000K
Nominal/Rated wattage [W]	13	13	23	23
Mains voltage [V]	220...240	220...240	220...240	220...240
Rated current [mA]	61	61	105	105
Mains frequency [Hz]	50 / 60			
Suitable cable types for primary side	H03VV-F 3x0,75 mm ² NYM-J 3x0,75 mm ² NYM-J 3x1 mm ² NYM-J 3x1,5 mm ²			
Type of connection	Terminal block with cable clamp			

3) Optical features

Product name	OSRAM PUNCTOLED® DL 150 3000K	OSRAM PUNCTOLED® DL 150 4000K	OSRAM PUNCTOLED® DL 200 3000K	OSRAM PUNCTOLED® DL 200 4000K
Lights source	LED	LED	LED	LED
Number of lighting outlets	11	11	20	20
Lifetime LED [h]	30000	30000	30000	30000
Light color	Warm white	Neutral white	Warm white	Neutral white
Color temperature [K]	3000 ± 150	4000 ± 150	3000 ± 150	4000 ± 150
Color rendering index (CRI)	≥ 80	≥ 80	≥ 80	≥ 80
Beam angle [°]	95	95	95	95
Luminous flux [lm]	1050 ± 100	1100 ± 100	1900 ± 100	2000 ± 100
Luminous intensity distributions	OSRAM PUNCTOLED® DL 150 			



4) Control

Product name	OSRAM PUNCTOLED® DL 150 3000K	OSRAM PUNCTOLED® DL 150 4000K	OSRAM PUNCTOLED® DL 200 3000K	OSRAM PUNCTOLED® DL 200 4000K
Ballast / Control gear	Integrated ECG			
Communication interface	---			
Permissible sinusoidal operating voltage [V _{AC}]	220...240			
Secondary voltage [V _{OUT}]	Max. 50 V			
Color control	---			
Through-wiring	---			
Dimmable	---			
Dimmable interface	---			

B) Logistic Data

Product reference	IC	MLFB	EAN 10	EAN 40	SU	Color
PUNCTOLED® DL 150 3000K	AA778520155	ODP10B77133R	4052899934122	4052899934184	18x1	White
PUNCTOLED® DL 150 4000K	AA778530155	ODP10B77133S	4052899934139	4052899934191	18x1	White
PUNCTOLED® DL 200 3000K	AA778540155	ODP10B77203R	4052899934146	4052899934207	12x1	White
PUNCTOLED® DL 200 4000K	AA778550155	ODP10B77203S	4052899934153	4052899934214	12x1	White
PUNCTOLED® DL 150 SI 3000K	AB474670055	ODP10B77135R	4052899444270	4052899444287	18x1	Silver
PUNCTOLED® DL 150 SI 4000K	AB474680055	ODP10B77135S	4052899444294	4052899444300	18x1	Silver
PUNCTOLED® DL 200 SI 3000K	AB474690055	ODP10B77205R	4052899444355	4052899444362	12x1	Silver
PUNCTOLED® DL 200 SI 4000K	AB474700055	ODP10B77205S	4052899444379	4052899444386	12x1	Silver