LEDVANCE

PRODUCT DATASHEET
DL ALU EM DN150 14 W 4000 K AT 3H WT

DOWNLIGHT ALU EMERGENCY | Downlight luminaires with aluminum housing and integrated emergency lighting function

GERMAN DESIGN AWARD NOMINEE 2019

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
– General illumination
– Public areas
– Corridors, stairways, entrance areas
– Shops

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
– Energy savings of up to 60 % compared to luminaires that use CFL
– Very homogenous light
– Functional design
– Easy installation with fast connection
– 3 years guarantee

Product features

– Luminaire suited for normal lighting and emergency lighting
– Certified according to European norms (EN 60598-1:2015; EN 60598-2-22:2014)
– Self-contained luminaires
– Emergency lighting function: battery discharge time of 3 h
– Function test of emergency lighting: automatic (AT)
– Battery technology: LiFePO4
– Diameter of required ceiling cut-out: 150 mm or 200 mm (depending on version)
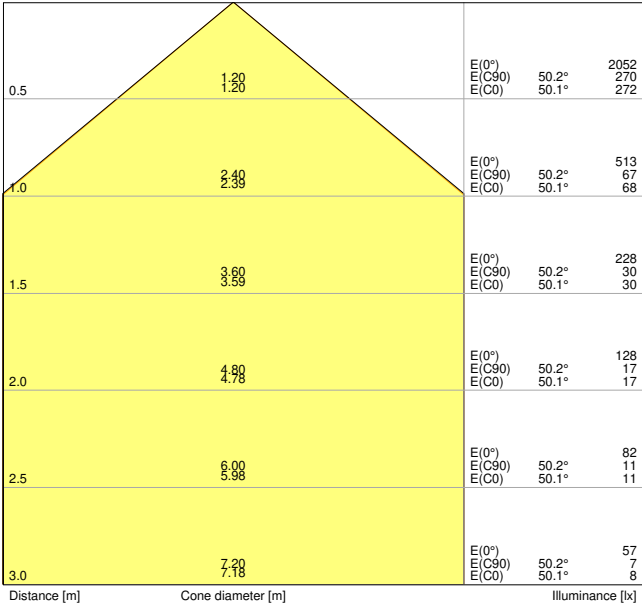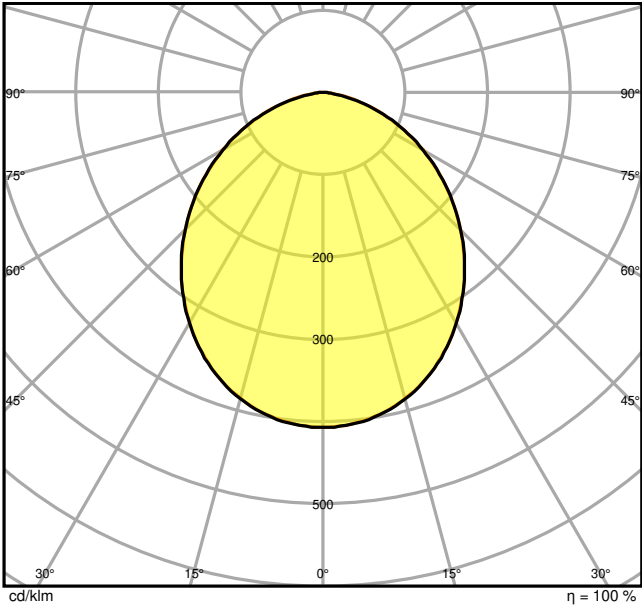– Type of protection: IP44

TECHNICAL DATA

Electrical data

Nominal wattage	14.00 W
Nominal voltage	220...240 V
Mains frequency	50...60 Hz
Nominal current	100 mA
Inrush current	4 A
Inrush current time T_{h50}	100 µs
Max. no. of lum. on circuit break. B16 A	94
Max. no. of lum. on circuit break. C10 A	75
Max. no. of lum. on circuit break. C16 A	120
Power factor λ	> 0.90
Total harmonic distortion	< 15 %
Protection class	II
Operating mode	External LED driver

Photometrical data

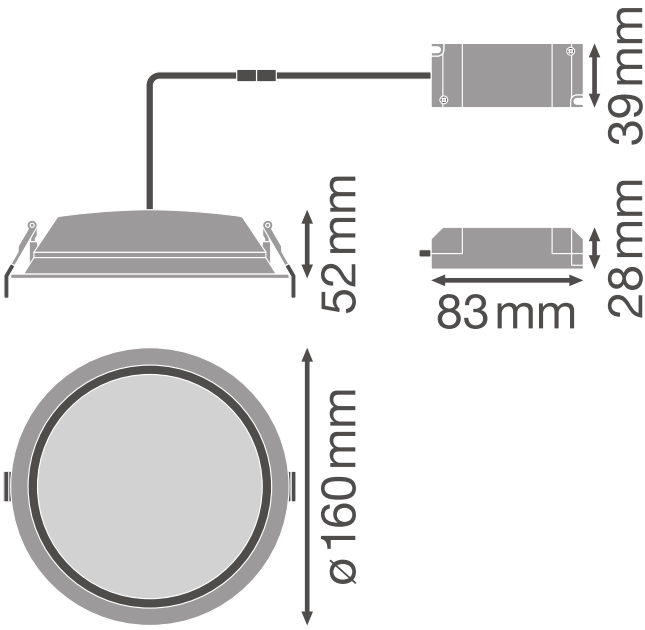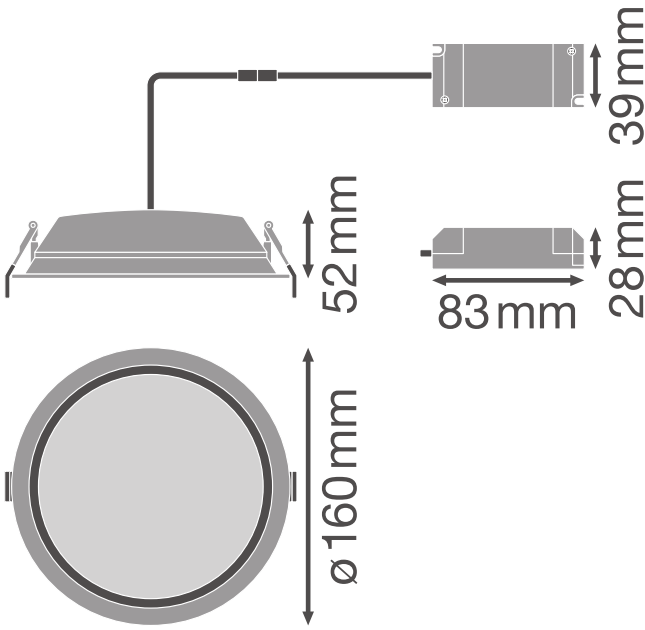|	
Luminous flux	1260 lm
Luminous efficacy	90 lm/W
Color temperature	4000 K
Light color (designation)	Cool White
Color rendering index Ra	> 80
Standard deviation of color matching	≤6 sdcm
Luminous intensity	-
Flickering metric (Pst LM)	-
Stroboscope effect metric (SVM)	-
Photobiological safety group acc. to EN62778	RG0
Photobiological safety group acc. to EN62471	RG0
Beam angle	100 °

0.5	1.20 / 1.20	E(0°) 2052 / E(C90) 50.2° 270 / E(C0) 50.1° 272
1.0	2.40 / 2.39	E(0°) 513 / E(C90) 50.2° 67 / E(C0) 50.1° 68
1.5	3.60 / 3.59	E(0°) 228 / E(C90) 50.2° 30 / E(C0) 50.1° 30
2.0	4.80 / 4.78	E(0°) 128 / E(C90) 50.2° 17 / E(C0) 50.1° 17
2.5	6.00 / 5.98	E(0°) 82 / E(C90) 50.2° 11 / E(C0) 50.1° 11
3.0	7.20 / 7.18	E(0°) 57 / E(C90) 50.2° 7 / E(C0) 50.1° 8

Distance [m]   Cone diameter [m]   Illuminance [lx]

— C0/C180 (Half beam angle [°]: 100.2°)
— C90/C270 (Half beam angle [°]: 100.4°)

LDC typ cone

cd/klm   η = 100 %

— C0/C180
— C90/C270

LDC typ polar

Dimensions & Weight

Diameter	160.00 mm
Height	52.00 mm
Product weight	710.00 g

Product line drawing with numbers

Product line drawing with numbers

Materials & Colors

Product color	White
Housing color	White
Body material	Aluminum
Cover material	Polymethylmethacrylate (PMMA)
Glow Wire Test according to IEC 60695-2-12	650 °C
Mercury content	0.0 mg

Application & Mounting

Ambient temperature range	+5...+40 °C
Temperature range at storage	5...+35 °C
Type of connection	Screw terminal, 2-POLE (N, L. L switchable)
Type of protection	IP44/IP20
Protection class IK (shock resistance)	IK02
Dimmable	No
Mounting type	Recessed
Mounting location	Ceiling

Application environment	Indoor
Mounting diameter	150 mm
Mounting depth	100 mm
LED module replaceable	Not replaceable
With light source	Yes

Lifespan

Lifespan L70/B50 at 25 °C	50000 h [1]
Lifespan L80/B10 at 25 °C	45000 h [1]
Lifespan L90/B10 at 25 °C	30000 h
Number of switching cycles	100000

[1] t[h]: L70 / B50 @ 25 °C (Ta), t[h]: L80 / B10 @ 25 °C (Ta), t[h]: L90 / B10 @ 25 °C (Ta)

Control gear

ECG - Length	83 mm
ECG - Width	39 mm
ECG - Height	28 mm

Emergency lighting

Area of emergency application	Anti-panic lighting / Escape route lighting
Type of emergency light operation	Maintained / Non-maintained
Type of emergency operation test	Automatic
Wattage in maintained operation mode	14 W
Wattage in emergency operation mode	3,0 W
Luminous flux in maintained operation mode	1260 lm
Luminous flux in emergency operation mode	400 lm
Nominal voltage of battery	3.2 V
Battery life in emergency operation mode	3 h
Battery charging time	< 24 h
Integrated test switch	No

Certificates & Standards

Standards	CE / CB / EAC
Luminaire with limited surface temperature, "D sign"	No
Ball shot safe	No

Additional product data

Number of illuminants	Not relevant

EQUIPMENT / ACCESSORIES

− Control LED with a holder for recessed installation included

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DOWNLOAD DATA

	Documents and certificates
PDF	User instruction
PDF	Declarations Of Conformity CE
PDF	Certificates

	Photometric and lighting design files
	IES file (IES)
	LDT file (Eulumdat)
	ULD file (DIALux)
	ROLF file (RELUX)
	UGR file (UGR table)
	LDC typ cone
	LDC typ polar

	CAD/BIM files
ZIP	BIM_Revit_3D
	CAD_STEP_3D

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4058075204225	Folding box 1	322 mm x 222 mm x 114 mm	875.00 g	8.15 dm³

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4058075204232	Shipping box 8	658 mm x 466 mm x 263 mm	4955.00 g	80.64 dm³

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

DISCLAIMER

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