

LED Downlight ND301 E-309E

15W

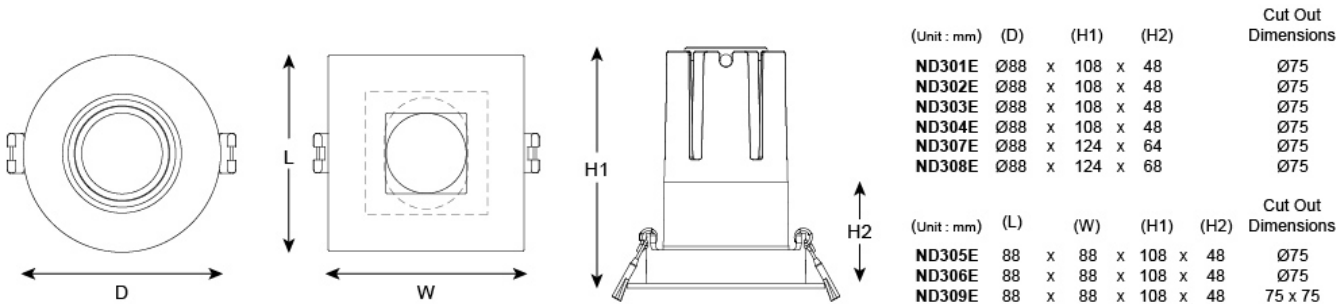
Features

- 15W LED Downlight
- Recessed round, uniform distribution
- Twist-lock changeable LED module for inventory cost saving
- Ideal replacement up to 100W halogen downlight
- Adjustable tilting angle of ± 23° vertically (ND303E, ND304E, ND306E, ND307E, ND308E)
- Beam angle: 20° / 30° / 38° / 50°
- Cut out dimensions Ø75mm / 75x75mm
- Good color rendition, Ra ≥80 / 90



Diagrams

Dimensions:



ND302E - ND309E:



Twist-lock changeable LED module:



Standards



IP20

IP54

Applications


Home


Office


Shopping mall


Hotel


Supermarket


Restaurant


Arena


Gallery

Technical Data	
Type of Light Source	
Lighting Technology Used	LED
Non-directional or Directional [NDLS/DLS]	DLS
Mains or Non-mains [MLS/NMLS]	MLS
Connected Light Source	No
Color tunable light source	No
Envelop [No/Second/Non-Clear]	No
High Luminance Light Source	No
Anti-glare Shield	No
Electrical	
Rated Wattage [W]	15W
On-mode Power [W]	15W
Standby Power [W]	N/A
Networked Standby Power [W]	N/A
Rated Voltage [V/Hz]	220-240V, 50/60Hz
Power Factor	0.9
Input Current [mA] @230V	72
Model	
ND301E-15W/8XX	15W
ND302E-15W/8XX	15W
ND303E-15W/8XX	15W
ND304E-15W/8XX	15W
ND305E-15W/8XX	15W
ND306E-15W/8XX	15W
ND307E-15W/8XX	15W
ND308E-15W/8XX	15W
ND309E-15W/8XX	15W
Luminous Flux (Useful Luminous Flux) [lm]	
15W	1215lm (1180lm) @3000K
	1270lm (1230lm) @4000K
	1320lm (1280lm) @6500K

Performance		
SCDM		<6
Chromaticity coordinates [x, y]		0.44, 0.403@3000K / 0.38, 0.38@4000K / 0.312, 0.335@6500K
Efficacy [lm/W]		79-85
Color Rendering Index [Ra]		80
R9 colour rendering index value		2
Beam Angle [°]		20 / 30 / 38 / 50
Rated Life, Ta@25°C [hrs]		50,000
Lamp Survival Factor		0.9
Lumen Maintenance		0.96
Number of Switching Cycles Before Failure		25,000
Starting Time [S]		<0.5
Warm Up Time [S]		<2
Premature Failure At 1000hrs		<5%
Displacement Factor [cosØ]		0.9
Flicker Metric [Pst LM]		1
Stroboscopic Effect Metric [SVM]		0.4
Mechanical		
Diameter D1 [mm]		Ø88 (ND301E, ND302E, ND303E, ND304E, ND307E, ND308E)
Cut out dimensions [mm]		Ø75 (ND301E, ND302E, ND303E, ND304E, ND305E, ND306E, ND307E, ND308E)
Length L [mm]		88 (ND305E, ND306E, ND309E)
Width W [mm]		88 (ND305E, ND306E, ND309E)
Cut out dimensions [mm]		75X75 (ND309E)
Height H1 [mm]		108(ND301E-ND306E, ND309E) / 124(ND307E, ND308E)
Height H2 [mm]		48(ND301E-ND306E, ND309E) / 64(ND307E) / 68(ND308E)
Material		Body: Die-cast aluminium Trim: Die-cast aluminium
Standard Compliance		
CE-LVD		EN60598-1, EN60598-2-2
CE-EMC		EN55015, EN61547, EN61000-3-2, EN61000-3-3
Environment		RoHS
Mercury Content [mg]		0.0
Energy Class		F
Electrical Class		II
Other		
Dimmable [Yes/Only with specific dimmers/No]		Optional
Operation Temperature		-10°C ~ 40°C
Storage Temperature		-20°C ~ 60°C
Energy Consumption in on-mode [kWh/1000h]		15kWh