

LED Downlight ND281 E-283E

15W

Features

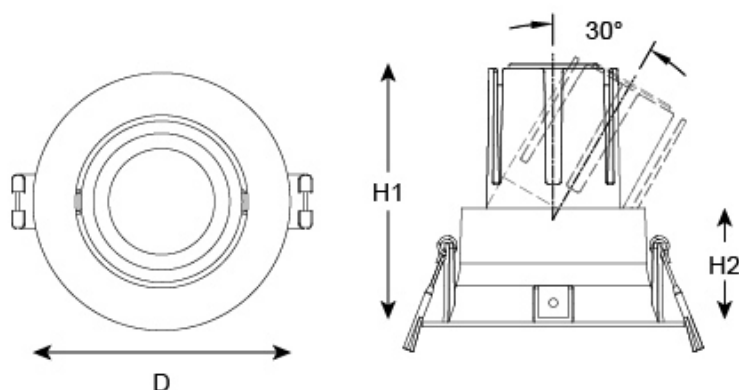
- 15W LED Downlight
- Recessed round, uniform distribution
- Twist-lock changeable LED module for inventory cost saving
- Ideal replacement up to 100W halogen downlight
- Adjustable tilting angle of $\pm 30^\circ$ vertically
- Beam angle: $20^\circ / 30^\circ / 38^\circ / 50^\circ$
- Cut out dimensions $\varnothing 75\text{mm} / \varnothing 95\text{mm}$
- Good color rendition, $R_a \geq 80 / 90$



ND281E (Adjustable)

Diagrams

Dimensions:



(Unit : mm)	(D)	(H1)	(H2)	Cut Out Dimensions
ND281E	Ø85	x 77	x 17	Ø75
ND282E	Ø104	x 95	x 35	Ø95
ND283E	Ø108	x 109	x 49	Ø95

ND282E - ND283E:



ND282E (Adjustable)



ND283E (Adjustable)

Twist-lock changeable LED module:



Standards



IP20

Prosperity Lamps & Components Ltd.

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Applications


Home


Office


Shopping mall


Hotel


Supermarket


Restaurant


Gallery


Museum

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	
ND281E-15W/8XX	15W
ND282E-15W/8XX	15W
ND283E-15W/8XX	15W
Luminous Flux (Useful Luminous Flux) [lm]	
15W	1215lm (1180lm) @3000K
	1270lm (1230lm) @4000K
	1320lm (1280lm) @6500K
Peak Luminous Intensity [cd]	
15W 20°	2700 @3000K
	3600 @4000K

	4100 @6500K
15W 30°	2500 @3000K
	3400 @4000K
	3900 @6500K
15W 38°	2300 @3000K
	3200 @4000K
	3700 @6500K
15W 50°	2100 @3000K
	3000 @4000K
	3500 @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 / 90
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]	0.7
Flicker Metric [Pst LM]	1
Stroboscopic Effect Metric [SVM]	0.4
Mechanical	
Diameter D [mm]	Ø85 / Ø104 / Ø108
Cut out dimensions [mm]	Ø75 / Ø95 / Ø95
Height H1 [mm]	77 / 95 / 109
Height H2 [mm]	17 / 35 / 49
Material	Body: Die-cast aluminium
	Trim: Die-cast aluminium
	Reflector: High purity, anodized 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	

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Dimmable [Yes/Only with specific dimmers/No]	No
Operation Temperature	-10°C ~ 40°C
Storage Temperature	-20°C ~ 60°C
Energy Consumption in on-mode [kWh/1000h]	15kWh