

LED Downlight ND411E-416E

4W/6W/9W/12W/18W/24W

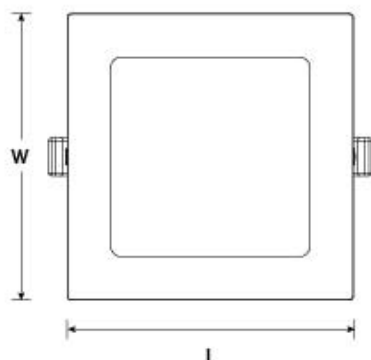
Features

- 4W / 6W / 9W / 12W / 18W / 24W LED Downlight
- Recessed square, uniform distribution
- Comfort glare-free diffuser
- Ideal replacement up to 2x26W compact fluo. downlight
- Low profile and slim (only 26-30mm deep), suitable for shallow ceiling void
- Integral gear unit allows quick and easy installation
- Cut out dimensions 80x80mm / 100x100mm / 115x115mm / 145x145mm / 195x195mm / 265x265mm
- Good color rendition, Ra ≥80



Diagrams

Dimensions:



(Unit : mm)	(L)		(W)		(H)	Cut Out Dimensions
ND411E	98	x	98	x	26	80 x 80
ND412E	118	x	118	x	26	100 x 100
ND413E	144	x	144	x	26	115 x 115
ND414E	177	x	177	x	26	145 x 145
ND415E	219	x	219	x	30	195 x 195
ND416E	299	x	299	x	30	265 x 265

Standards



IP20

Applications



Home



Office



Shopping mall



Hotel



Supermarket



Restaurant



Hospital

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] 4W / 6W / 9W / 12W / 18W / 24W

On-mode Power [W] 4W / 6W / 9W / 12W / 18W / 24W

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 19 / 29 / 43 / 58 / 87 / 116

Model

ND411E-4W/8XX 4W

ND412E-6W/8XX 6W

ND413E-9W/8XX 9W

ND414E-12W/8XX 12W

ND415E-18W/8XX 18W

ND416E-24W/8XX 24W

Luminous Flux (Useful Luminous Flux) [lm]

4W 320lm (305lm) @3000K

325lm (310lm) @4000K

330lm (315lm) @6500K

Prosperity Lamps & Components Ltd.

Tel: (852) 2511 0022 Fax: (852) 2511 0082 Web: www.prosperitylamps.com Email: info@prosperitylamps.com

6W	480lm (455lm) @3000K
	490lm (465lm) @4000K
	500lm (475lm) @6500K
9W	720lm (685lm) @3000K
	730lm (695lm) @4000K
	740lm (705lm) @6500K
12W	960lm (915lm) @3000K
	1030lm (980lm) @4000K
	1100lm (1045lm) @6500K
18W	1440lm (1370lm) @3000K
	1490lm (1420lm) @4000K
	1540lm (1465lm) @6500K
24W	1920lm (1825lm) @3000K
	1960lm (1865lm) @4000K
	2000lm (1900lm) @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]	76-87
Color Rendering Index [Ra]	80
R9 colour rendering index value	2
Beam Angle [°]	120
Rated Life, Ta@25°C [hrs]	25,000
Lamp Survival Factor	0.9
Lumen Maintenance	0.96
Number of Switching Cycles Before Failure	12,500
Starting Time [S]	<0.5
Warm Up Time [S]	<2
Premature Failure At 1000hrs	<5%
Displacement Factor [cosØ]	0.5 / 0.5 / 0.5 / 0.7 / 0.7 / 0.7
Flicker Metric [Pst LM]	1
Stroboscopic Effect Metric [SVM]	0.4

Mechanical

Length L [mm]	98 / 118 / 144 / 177 / 219 / 299
Width W [mm]	98 / 118 / 144 / 177 / 219 / 299
Height H [mm]	26 / 26 / 26 / 26 / 30 / 30
Cut out dimensions [mm]	80x80 / 100x100 / 115x115 / 145x145 / 195x195 / 265x265
Material	Body: Thermoplastic polypropylene (PP)
	Trim: Thermoplastic polypropylene (PP)
	Diffuser: Frosted PS, UV protected

Standard Compliance

CE-LVD	EN60598-1, EN60598-2-2
CE-EMC	EN55015, EN61547, EN61000-3-2, EN61000-3-3

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Environment	RoHS
Mercury Content [mg]	0.0
Energy Class	F
Electrical Class	II
Other	
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]	4kWh / 6kWh / 9kWh / 12kWh / 18kWh / 24kWh