

# LED Downlight ND271 E-273E

## 9W

### Features

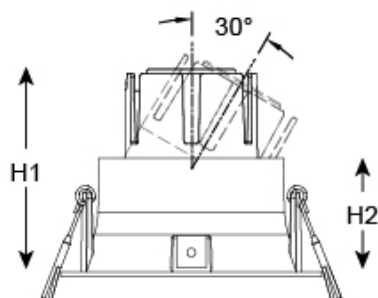
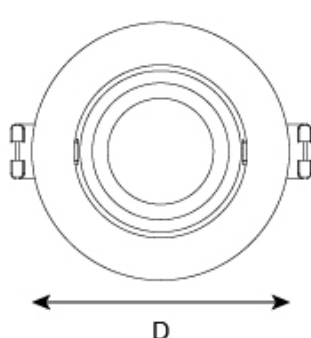
- 9W LED Downlight
- Recessed round, uniform distribution
- Twist-lock changeable LED module for inventory cost saving
- Ideal replacement up to 100W halogen downlight
- Adjustable tilting angle of  $\pm 30^\circ$  vertically
- Beam angle:  $20^\circ / 30^\circ / 38^\circ / 50^\circ$
- Cut out dimensions  $\varnothing 75\text{mm} / \varnothing 95\text{mm}$
- Good color rendition,  $R_a \geq 80 / 90$



ND271 E (Adjustable)

### Diagrams

#### Dimensions:



| (Unit : mm) | (D)               | (H1)   | (H2) | Cut Out Dimensions |
|-------------|-------------------|--------|------|--------------------|
| ND271E      | $\varnothing 85$  | x 54 x | 17   | $\varnothing 75$   |
| ND272E      | $\varnothing 104$ | x 72 x | 35   | $\varnothing 95$   |
| ND273E      | $\varnothing 108$ | x 86 x | 49   | $\varnothing 95$   |

ND272E - ND273E:



ND272E (Adjustable)



ND273E (Adjustable)

Twist-lock changeable LED module:



ND271E (Adjustable)

## 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] 9W

On-mode Power [W] 9W

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 43

## Model

ND271E-9W/8XX 9W

ND272E-9W/8XX 9W

ND273E-9W/8XX 9W

## Luminous Flux (Useful Luminous Flux) [lm]

9W 760lm (740lm) @3000K

830lm (805lm) @4000K

920lm (890lm) @6500K

## Peak Luminous Intensity [cd]

9W 20° 2500 @3000K

3000 @4000K

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|                                           |                                                           |
|-------------------------------------------|-----------------------------------------------------------|
|                                           | 3900 @6500K                                               |
| 9W 30°                                    | 2300 @3000K                                               |
|                                           | 2800 @4000K                                               |
|                                           | 3700 @6500K                                               |
| 9W 38°                                    | 2100 @3000K                                               |
|                                           | 2600 @4000K                                               |
|                                           | 3500 @6500K                                               |
| 9W 50°                                    | 1700 @3000K                                               |
|                                           | 2200 @4000K                                               |
|                                           | 3100 @6500K                                               |
| <b>Performance</b>                        |                                                           |
| SCDM                                      | <6                                                        |
| Chromaticity coordinates [x, y]           | 0.44, 0.403@3000K / 0.38, 0.38@4000K / 0.312, 0.335@6500K |
| Efficacy [lm/W]                           | 82-99                                                     |
| 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]                | 0.5                                                       |
| Flicker Metric [Pst LM]                   | 1                                                         |
| Stroboscopic Effect Metric [SVM]          | 0.4                                                       |
| <b>Mechanical</b>                         |                                                           |
| Diameter D [mm]                           | Ø85 / Ø104 / Ø108                                         |
| Cut out dimensions [mm]                   | Ø75 / Ø95 / Ø95                                           |
| Height H1 [mm]                            | 54 / 72 / 86                                              |
| Height H2 [mm]                            | 17 / 35 / 49                                              |
| Material                                  | Body: Die-cast aluminium                                  |
|                                           | Trim: Die-cast aluminium                                  |
|                                           | Reflector: High purity, anodized aluminium                |
| <b>Standard Compliance</b>                |                                                           |
| 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                              | 3000K / 4000K / 6500K                                     |
| 9W                                        | F / F / E                                                 |
| Electrical Class                          | II                                                        |

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| 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]    | 9kWh         |