

LED Downlight ND161E-165E

15W/20W

Features

- 15W / 20W LED Downlight
- Recessed round, uniform distribution
- Ideal replacement up to 100W halogen downlight
- Adjustable tilting angle of $\pm 20^\circ$ vertically (ND161, ND163, ND164)
- Beam angle: 36°
- Cut out diameters $\varnothing 93\text{mm}$ / $\varnothing 100\text{mm}$
- Dimmable as option
- Special color spectrum for aquarium, agriculture and food display, available on request
- Color Rendering Index: ≥ 80



ND161
(Adjustable)



ND162



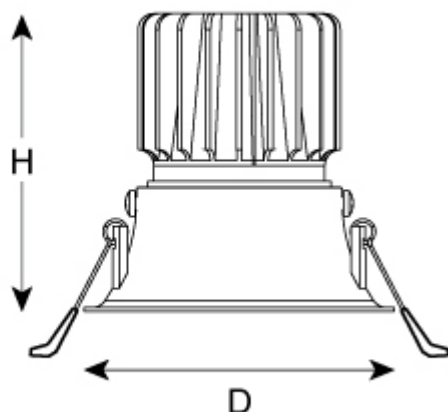
ND163 / ND164
(Adjustable)



ND165

Diagrams

Dimensions:



(Unit : mm)	(D)	(H)
ND161	$\varnothing 98$	x 80
ND162	$\varnothing 98$	x 80
ND163	$\varnothing 115$	x 100
ND164	$\varnothing 115$	x 130
ND165	$\varnothing 115$	x 110

ND161 Front View:**ND162 Front View:**

ND163,ND164 Front View:



ND165 Front View:



ND16 Back View:



ND16 Bottom View:



ND161



ND162



ND163 / ND164



ND165

Standards



IP20

Applications



Home



Shopping mall



Hotel



Supermarket



Restaurant

Technical Data

Prosperity Lamps & Components Ltd.

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

Electrical	
Rated Wattage [W]	15W / 20W
Rated Voltage [V/Hz]	100-240V, 50/60Hz
Power Factor @230V	0.95
Input Current [mA] @230V	69 / 92
LED	COB
Model	
ND161E-15W/8XX	15W (COB 13W, 350mA, 36±2Vdc, 1485-1585lm)
ND162E-15W/8XX	15W (COB 13W, 350mA, 36±2Vdc, 1485-1585lm)
ND163E-15W/8XX	15W (COB 13W, 350mA, 36±2Vdc, 1485-1585lm)
ND164E-20W/8XX	20W (COB 16W, 450mA, 36±2Vdc, 1780-1880lm)
ND165E-15W/8XX	15W (COB 13W, 350mA, 36±2Vdc, 1485-1585lm)
Luminous Flux [lm]	
15W	1100lm / 1100lm / 1100lm / 1160lm @3000K
	1150lm / 1150lm / 1150lm / 1210lm @4000K
	1200lm / 1200lm / 1200lm / 1260lm @6500K
20W	1470lm @3000K
	1530lm @4000K
	1590lm @6500K
Performance	
SDCM	<6
Efficacy [lm/W]	73-84
Color Rendering Index [Ra]	≥80
Beam Angle [°]	36
Rated Life, Ta@25°C [hrs]	50,000
Lamp Survival Factor at 6000hrs	>0.9
Lumen Maintenance at 6000hrs	>0.8
Number of Switching Cycles Before Failure	>15,000
Starting Time [S]	<0.5
Warm Up Time [S]	<2
Premature Failure At 1000hrs	<5%
Mechanical	
Diameter D [mm]	Ø98 / Ø98 / Ø115 / Ø115 / Ø115
Height H [mm]	86 / 86 / 100 / 130 / 110
Cut out diameters [mm]	Ø93 / Ø93 / Ø100 / Ø100 / Ø100
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
Mercury Content [mg]	0.0
Electrical Class	II
Other	

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Dimmable [Y/N]	Optional
Operation Temperature	-10°C ~ 40°C
Storage Temperature	-20°C ~ 60°C