

LED Downlight ND141 E-145E

15W

Features

- 15W LED Downlight
- Recessed round, uniform distribution
- Ideal replacement up to 100W halogen downlight
- Adjustable tilting angle of $\pm 20^\circ$ vertically (ND144, ND145)
- Beam angle: 36°
- Cut out diameter $\varnothing 90\text{mm}$
- Dimmable as option
- Special color spectrum for aquarium, agriculture and food display, available on request
- Color Rendering Index: ≥ 80



ND141 / ND142



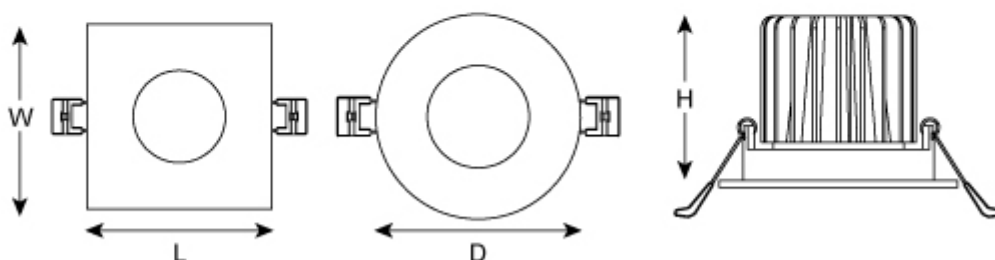
ND143

ND144
(Adjustable)ND145
(Adjustable)

Diagrams

Dimensions:

(Unit : mm)	(L)	(W)	(H)	(Unit : mm)	(D)	(H)
ND143	100	100	75	ND141	$\varnothing 100$	65
ND145	100	100	75	ND142	$\varnothing 100$	75
				ND144	$\varnothing 100$	75



ND14 Front View:**ND14 Back View:**

ND14 Bottom View:



ND141 / ND142



ND143



ND144



ND145

Standards



Applications



Technical Data	
Electrical	
Rated Wattage [W]	15W
Rated Voltage [V/Hz]	100-240V, 50/60Hz
Power Factor @230V	0.95
Input Current [mA] @230V	69
LED	COB
Model	
ND141E-15W/8XX	15W (COB 13W, 350mA, 36±2Vdc, 1485-1585lm)
ND142E-15W/8XX	15W (COB 13W, 350mA, 36±2Vdc, 1485-1585lm)
ND143E-15W/8XX	15W (COB 13W, 350mA, 36±2Vdc, 1485-1585lm)
ND144E-15W/8XX	15W (COB 13W, 350mA, 36±2Vdc, 1485-1585lm)
ND145E-15W/8XX	15W (COB 13W, 350mA, 36±2Vdc, 1485-1585lm)
Luminous Flux [lm]	
15W	950lm / 1000lm / 1000lm / 1100lm / 1100lm @3000K
	1000lm / 1050lm / 1050lm / 1150lm / 1150lm @4000K
	1050lm / 1100lm / 1100lm / 1200lm / 1200lm @6500K

Performance		
SDCM		<6
Efficacy [lm/W]		63-80
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] x Height H [mm]		Ø100 x 65 (ND141E)
		Ø100 x 75 (ND142E, ND144E)
Length L [mm] x Width W [mm] x Height H [mm]		100 x 100 x 75 (ND143E, ND145E)
Cut out diameter [mm]		Ø90
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		
Dimmable [Y/N]		Optional
Operation Temperature		-10°C ~ 40°C
Storage Temperature		-20°C ~ 60°C