# LED Downlight ND181E-188E
# 15W/19W/29W/39W

## Features

· 15W / 19W / 29W / 39W LED Downlight
· Recessed round, uniform distribution
· Ideal replacement up to 70W HID downlight
· Adjustable tilting angle of 0°-25° vertically
(ND182,ND184,ND186,ND188)
· Cut out diameters Ø105mm / Ø135mm / Ø160mm / Ø190mm
· Dimmable as option
· Special color spectrum for aquarium, agriculture and food display, available on request
· Color Rendering Index: ≥80



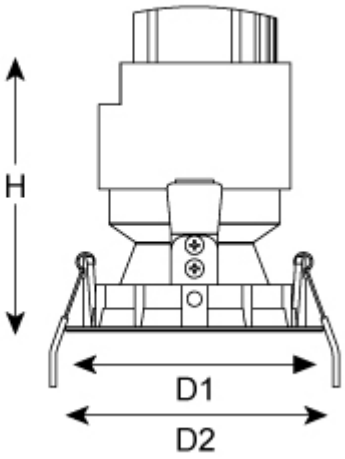
ND181, ND183
ND185, ND187



ND182, ND184
ND186, ND188
(Adjustable)

## Diagrams

### Dimensions:




| (Unit : mm) | (D1) | | (D2) | | (H) |
|---|---|---|---|---|---|
| ND181 | Ø105 | x | Ø110 | x | 140 |
| ND182 | Ø105 | x | Ø110 | x | 140 |
| ND183 | Ø135 | x | Ø140 | x | 155 |
| ND184 | Ø135 | x | Ø140 | x | 155 |
| ND185 | Ø160 | x | Ø168 | x | 200 |
| ND186 | Ø160 | x | Ø168 | x | 200 |
| ND187 | Ø190 | x | Ø198 | x | 210 |
| ND188 | Ø190 | x | Ø198 | x | 210 |

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## ND18 Front View:



ND181



ND183



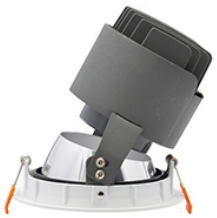
ND185



ND187



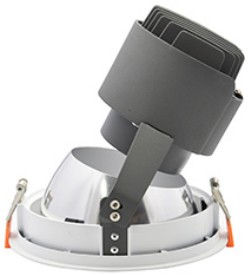
ND182



ND184



ND186



ND188

## ND18 Back View:



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ND18 Bottom View:



ND181, ND183
ND185, ND187



ND182, ND184
ND186, ND188

## Standards

IP20

## Applications

Home | Shopping mall | Hotel | Supermarket | Restaurant

| Technical Data | |
|---|---|
| **Electrical** | |
| Rated Wattage [W] | 15W / 19W / 29W / 39W |
| Rated Voltage [V/Hz] | 100-240V, 50/60Hz |
| Power Factor @230V | 0.95 |
| Input Current [mA] @230V | 69 / 87 / 133 / 178 |
| LED | COB |
| **Model** | |
| ND181E-15W/8XX | 15W (COB 13W, 350mA, 36±2Vdc, 1485-1585lm) |
| ND182E-15W/8XX | 15W (COB 13W, 350mA, 36±2Vdc, 1485-1585lm) |
| ND183E-19W/8XX | 19W (COB 16W, 450mA, 36±2Vdc, 1790-1910lm) |
| ND184E-19W/8XX | 19W (COB 16W, 450mA, 36±2Vdc, 1790-1910lm) |

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| | |
|---|---|
| ND185E-29W/8XX | 29W (COB 25W, 700mA, 36±2Vdc, 2880-3020lm) |
| ND186E-29W/8XX | 29W (COB 25W, 700mA, 36±2Vdc, 2880-3020lm) |
| ND187E-39W/8XX | 39W (COB 32W, 900mA, 36±2Vdc, 3860-4040lm) |
| ND188E-39W/8XX | 39W (COB 32W, 900mA, 36±2Vdc, 3860-4040lm) |
| Luminous Flux [lm] | |
| 15W | 1100lm / 1080lm @3000K |
| | 1150lm / 1130lm @4000K |
| | 1200lm / 1180lm @6500K |
| 19W | 1520lm / 1490lm @3000K |
| | 1580lm / 1550lm @4000K |
| | 1640lm / 1610lm @6500K |
| 29W | 1990lm / 1950lm @3000K |
| | 2060lm / 2020lm @4000K |
| | 2130lm / 2090lm @6500K |
| 39W | 2900lm / 2840lm @3000K |
| | 2990lm / 2930lm @4000K |
| | 3080lm / 3020lm @6500K |
| Performance | |
| SDCM | <6 |
| Efficacy [lm/W] | 67-86 |
| Color Rendering Index [Ra] | ≥80 |
| Beam Angle [°] | 24 / 24 / 20 / 20 / 26 / 26 / 26 / 26 |
| 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] | Ø110 / Ø110 / Ø140 / Ø140 / Ø168 / Ø168 / Ø198 / Ø198 |
| Height H [mm] | 140 / 140 / 155 / 155 / 200 / 200 / 210 / 210 |
| Cut out diameter [mm] | Ø105 / Ø105 / Ø135 / Ø135 / Ø160 / Ø160 / Ø190 / Ø190 |
| 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 |

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| | |
|---|---|
| Storage Temperature | -20°C ~ 60°C |

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