

NERO SURFACE SQUARE 12W

NERO SURFACE SQUARE LED DOWNLIGHT Indoor Luminaire Product Code: LNRO02S012SC / LNRO02S012SN / LNRO02S012SW 12W - 1200lm - 6500K - CRI>80 Ra - Beam Angle 120°



Technical Specifications

Operating Temperature Rated Input Voltage & Frequency Rated Input Wattage **Rated Input Current** Power Factor ATHD **Rated Luminous Flux** Rated Luminaire Efficacy Correlated Color Temperature (CCT) Color Rendering Index (CRI) **Beam Angle Driver Efficiency** LED Life Span Housing Lens / Reflector Mounting

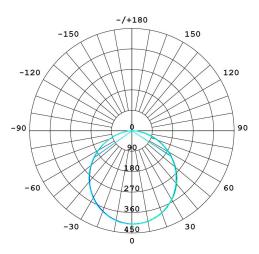
Protections

Over Voltage Protection Surge Protection Protection Class Ingress Protection (IP Rating) Impact Protection (IK Rating) Short Circuit Protection Open Circuit Protection (No Load) Reverse Polarity Protection -10°C to 40°C 230 VAC. 50Hz 12W ± 10% 0.058 Amp (Nominal) ≥0.90 <15% 1200 lm / 1140 lm / 1080 lm (tolerance as per BIS) 100 lm/W / 95 lm/W / 90 lm/W (tolerance as per BIS) 6500 K / 4000 K / 3000 K (tolerance as per ANSI) >80 Ra 120° (within the permissible limits) ≥85% >50000 Hrs (Ta=25°C @L70) AL. Housing PC. Diffuser Surface Mount

Withstand upto 440V/AC for 4 Hrs. ±4.0KV Class II IP20 IK02 Provided Provided Provided

All technical data is subject to industry-standard tolerances.

Light Distribution



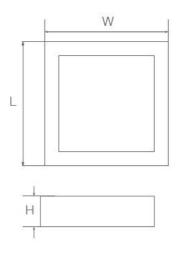
UGR Table

| ceiling | g/cavity | 0.7 | 0.7 | 0.5 | 0.5 | 0.3 | 0.7 | 0.7 | 0.5 | 0.5 | 0.3 |
|---------------|------------------|------------------|-----------|---------|----------|----------|----------------|------|------|------|------|
| walls | | 0.5 | 0.3 | 0.5 | 0.3 | 0.3 | 0.5 | 0.3 | 0.5 | 0.3 | 0.3 |
| working plane | | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| loom dim | ensions | Viewed crosswise | | | | | Viewed endwise | | | | |
| x = 2H | у = 2Н | 24.2 | 25.7 | 24.5 | 25.9 | 26.1 | 24.1 | 25.6 | 24.4 | 25.8 | 26.0 |
| | ЗН | 25.8 | 27.2 | 26.1 | 27.5 | 27.7 | 25.6 | 27.0 | 25.9 | 27.3 | 27.5 |
| | 4H | 26.5 | 27.8 | 26.8 | 28.1 | 28.3 | 26.2 | 27.5 | 26.5 | 27.8 | 28.1 |
| | бн | 27.0 | 28.3 | 27.3 | 28.6 | 28.8 | 26.6 | 27.9 | 26.9 | 28.1 | 28.4 |
| | 8H | 27.2 | 28.4 | 27.6 | 28.7 | 29.0 | 26.7 | 27.9 | 27.1 | 28.2 | 28.5 |
| | 12H | 27.3 | 28.5 | 27.7 | 28.8 | 29.1 | 26.8 | 27.9 | 27.1 | 28.2 | 28.5 |
| 4 H | 2н | 24.8 | 26.2 | 25.1 | 26.4 | 26.7 | 24.7 | 26.1 | 25.1 | 26.3 | 26.6 |
| | ЗН | 26.6 | 27.8 | 27.0 | 28.1 | 28.4 | 26.5 | 27.6 | 26.8 | 27.9 | 28.2 |
| | 4H | 27.5 | 28.5 | 27.8 | 28.8 | 29.2 | 27.2 | 28.3 | 27.6 | 28.6 | 28.9 |
| | бн | 28.1 | 29.1 | 28.5 | 29.4 | 29.8 | 27.7 | 28.7 | 28.1 | 29.0 | 29.4 |
| | 8H | 28.4 | 29.3 | 28.8 | 29.6 | 30.0 | 27.9 | 28.8 | 28.3 | 29.1 | 29.5 |
| | 12H | 28.6 | 29.4 | 29.0 | 29.8 | 30.2 | 28.0 | 28.8 | 28.4 | 29.2 | 29.6 |
| 8H | 4H | 27.7 | 28.6 | 28.2 | 29.0 | 29.4 | 27.5 | 28.4 | 27.9 | 28.8 | 29.1 |
| | 6H | 28.6 | 29.3 | 29.0 | 29.7 | 30.1 | 28.2 | 28.9 | 28.6 | 29.3 | 29.7 |
| | 8H | 28.9 | 29.6 | 29.4 | 30.0 | 30.5 | 28.4 | 29.1 | 28.9 | 29.5 | 29.9 |
| | 12H | 29.2 | 29.8 | 29.7 | 30.3 | 30.7 | 28.6 | 29.1 | 29.1 | 29.6 | 30.1 |
| 12H | <mark>4</mark> н | 27.7 | 28.6 | 28.2 | 28.9 | 29.4 | 27.5 | 28.3 | 28.0 | 28.7 | 29.1 |
| | 6н | 28.6 | 29.3 | 29.1 | 29.7 | 30.2 | 28.3 | 28.9 | 28.7 | 29.3 | 29.8 |
| | 8H | 29.0 | 29.6 | 29.5 | 30.1 | 30.5 | 28.5 | 29.1 | 29.0 | 29.6 | 30.0 |
| ariatio | ns with t | the obset | rver posi | tion at | spacings | (CIE Pub | .117): | | | | |
| s = | 1.0H | + 0.1 / - 0.2 | | | | | + 0.1 / - 0.2 | | | | |
| | 1.5H | + 0.2 / - 0.3 | | | | | + 0.2 / - 0.3 | | | | |
| | 2.0H | + 0.1 / - 0.3 | | | | | + 0.2 / - 0.3 | | | | |

With our continuous efforts to upgrade the technology/product, all product specifications and data are subject to change without prior notice. We always try to maintain the accuracy of our product images, but due to different viewing conditions, the colors may vary. Images are only for indicative purpose.

Product Dimensions (L x W x H)

175 X 175 X 35mm (Tol.±5 mm)



Applications

Residences, Offices, Small Retail Shops, Hotels, Coffee Shops, Restaurants, Hospitals, area lighting and for other indoor applications.