

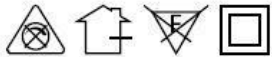
ENSAVE PLUS 9W

Ensave Plus LED Round Downlight

Indoor Luminaire

Product Code:

LESP01R009XC / LESP01R009XN / LESP01R009XW
9W - 810lm - 6500K - CRI>80 Ra - Beam Angle 100°



Technical Specifications

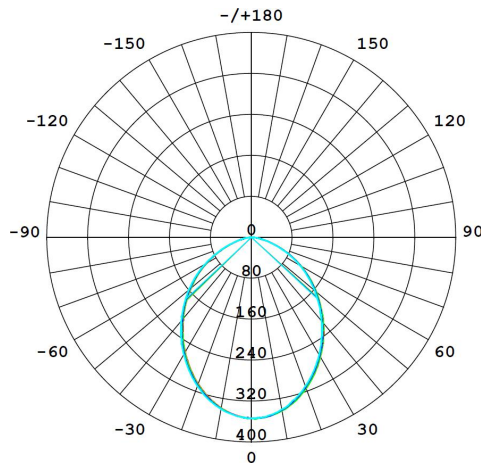
Operating Temperature	-10°C to 45°C
Rated Input Voltage & Frequency	220-240 V AC
Rated Input Wattage	9W ± 10%
Rated Input Current	0.045 Amp (Nominal)
Power Factor	>0.90
THD	<10%
Rated Luminous Flux	810 lm / 765 lm / 720 lm (tolerance as per BIS)
Rated Luminaire Efficacy	90 lm/W / 85 lm/W / 80 lm/W (tolerance as per BIS)
Correlated Color Temperature (CCT)	6500 K / 4000 K / 3000 K (tolerance as per ANSI)
Color Rendering Index (CRI)	>80 Ra
Beam Angle	100° (within the permissible limits)
Driver Efficiency	≥85%
LED Life Span	>50000 Hrs (Ta=25°C @L70)
Housing	Die Cast Aluminium with PC Ring
Lens / Reflector	Diffuser PMMA/PC
Mounting	Recessed

Protections

Over Voltage Protection	360 V AC upto 20 min.
Surge Protection	±2.5KV
Protection Class	Class II
Ingress Protection (IP Rating)	IP20
Impact Protection (IK Rating)	NA
Short Circuit Protection	Provided
Open Circuit Protection (No Load)	Provided
Reverse Polarity Protection	Provided

All technical data is subject to industry-standard tolerances.

Light Distribution

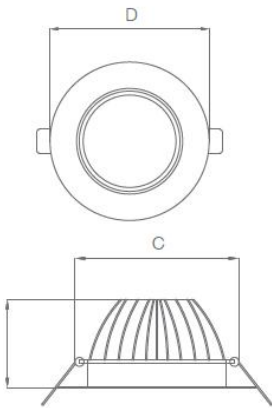


UGR Table

ceiling/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		
Room dimensions	Viewed crosswise					Viewed endwise						
x = 2H y = 2H	2H	3H	4H	6H	8H	12H	2H	3H	4H	6H	8H	12H
	16.6	17.7	18.1	18.3	18.3	18.3	17.1	18.4	18.4	19.1	19.2	19.2
	18.1	19.1	19.3	19.4	19.4	19.4	18.4	19.5	19.8	19.8	19.8	19.8
	16.9	18.0	18.4	18.6	18.7	18.7	17.4	18.7	19.2	19.6	19.9	19.9
	18.3	19.3	19.6	19.7	19.7	20.0	18.6	19.8	20.1	20.4	20.5	20.5
	18.5	19.5	19.8	20.0	20.0	20.0	18.9	20.1	20.5	20.7	20.7	20.7
	16.5	17.6	17.9	18.1	18.1	18.1	17.0	18.3	18.7	18.9	19.0	19.0
	17.9	18.9	19.2	19.3	19.3	19.3	18.3	19.3	19.7	19.8	19.8	19.8
	16.8	17.9	18.2	18.4	18.5	18.5	17.3	18.6	19.0	19.3	19.4	19.4
	18.1	19.1	19.4	19.5	19.5	19.5	18.5	19.6	20.0	20.2	20.2	20.2
	18.3	19.4	19.7	19.8	19.8	19.8	18.8	19.6	19.9	19.9	19.9	19.9
	18.1	19.2	19.5	19.5	19.5	19.5	17.3	18.6	19.0	19.3	19.4	19.4
	16.5	17.6	17.9	18.1	18.1	18.1	17.0	18.3	18.7	18.9	19.0	19.0
	17.9	18.9	19.2	19.3	19.3	19.3	18.3	19.3	19.7	19.8	19.8	19.8
	16.8	17.9	18.2	18.4	18.5	18.5	17.3	18.6	19.0	19.3	19.4	19.4
	18.1	19.1	19.4	19.5	19.5	19.5	18.5	19.6	20.0	20.2	20.2	20.2
	18.3	19.4	19.7	19.8	19.8	19.8	18.8	19.6	19.9	19.9	19.9	19.9
	18.5	19.5	19.8	20.0	20.0	20.0	18.9	20.1	20.5	20.7	20.7	20.7
	16.5	17.6	17.9	18.1	18.1	18.1	17.0	18.3	18.7	18.9	19.0	19.0
	17.9	18.9	19.2	19.3	19.3	19.3	18.3	19.3	19.7	19.8	19.8	19.8
	16.8	17.9	18.2	18.4	18.5	18.5	17.3	18.6	19.0	19.3	19.4	19.4
	18.1	19.1	19.4	19.5	19.5	19.5	18.5	19.6	20.0	20.2	20.2	20.2
	18.3	19.4	19.7	19.8	19.8	19.8	18.8	19.6	19.9	19.9	19.9	19.9
	18.5	19.5	19.8	20.0	20.0	20.0	18.9	20.1	20.5	20.7	20.7	20.7
	16.5	17.6	17.9	18.1	18.1	18.1	17.0	18.3	18.7	18.9	19.0	19.0
	17.9	18.9	19.2	19.3	19.3	19.3	18.3	19.3	19.7	19.8	19.8	19.8
	16.8	17.9	18.2	18.4	18.5	18.5	17.3	18.6	19.0	19.3	19.4	19.4
	18.1	19.1	19.4	19.5	19.5	19.5	18.5	19.6	20.0	20.2	20.2	20.2
	18.3	19.4	19.7	19.8	19.8	19.8	18.8	19.6	19.9	19.9	19.9	19.9
	18.5	19.5	19.8	20.0	20.0	20.0	18.9	20.1	20.5	20.7	20.7	20.7
	16.5	17.6	17.9	18.1	18.1	18.1	17.0	18.3	18.7	18.9	19.0	19.0
	17.9	18.9	19.2	19.3	19.3	19.3	18.3	19.3	19.7	19.8	19.8	19.8
	16.8	17.9	18.2	18.4	18.5	18.5	17.3	18.6	19.0	19.3	19.4	19.4
	18.1	19.1	19.4	19.5	19.5	19.5	18.5	19.6	20.0	20.2	20.2	20.2
	18.3	19.4	19.7	19.8	19.8	19.8	18.8	19.6	19.9	19.9	19.9	19.9
	18.5	19.5	19.8	20.0	20.0	20.0	18.9	20.1	20.5	20.7	20.7	20.7
	16.5	17.6	17.9	18.1	18.1	18.1	17.0	18.3	18.7	18.9	19.0	19.0
	17.9	18.9	19.2	19.3	19.3	19.3	18.3	19.3	19.7	19.8	19.8	19.8
	16.8	17.9	18.2	18.4	18.5	18.5	17.3	18.6	19.0	19.3	19.4	19.4
	18.1	19.1	19.4	19.5	19.5	19.5	18.5	19.6	20.0	20.2	20.2	20.2
	18.3	19.4	19.7	19.8	19.8	19.8	18.8	19.6	19.9	19.9	19.9	19.9
	18.5	19.5	19.8	20.0	20.0	20.0	18.9	20.1	20.5	20.7	20.7	20.7
	16.5	17.6	17.9	18.1	18.1	18.1	17.0	18.3	18.7	18.9	19.0	19.0
	17.9	18.9	19.2	19.3	19.3	19.3	18.3	19.3	19.7	19.8	19.8	19.8
	16.8	17.9	18.2	18.4	18.5	18.5	17.3	18.6	19.0	19.3	19.4	19.4
	18.1	19.1	19.4	19.5	19.5	19.5	18.5	19.6	20.0	20.2	20.2	20.2
	18.3	19.4	19.7	19.8	19.8	19.8	18.8	19.6	19.9	19.9	19.9	19.9
	18.5	19.5	19.8	20.0	20.0	20.0	18.9	20.1	20.5	20.7	20.7	20.7
Variations with the observer position at spacings (CIE Pub.117):												
S = 1.0H	+ 0.2 / - 0.3					+ 0.3 / - 0.3						
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.4						
2.0H	+ 0.4 / - 0.4					+ 0.3 / - 0.4						

Product Dimensions (L x W x H), Cutout (Dia.)

Ø 115 X 60mm, Ø 100mm



Applications

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