

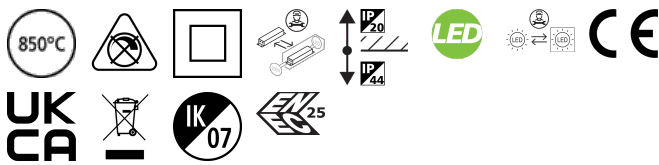
## Insaver HO Topper LED II 150

*Insaver HO Topper LED II 150 RO 12W NW*  
3033931



### Product features

- IP44 from the front round LED downlight with outputs of up to 2,289lm and an efficacy of up to 99lm/W. Polycarbonate diffuser with a white bezel. Shallow recess depth (<65mm). Available in 12, 15, 21 & 25W in 150mm, 175mm, 205mm & 225mm cut out sizes. Perfect for up to 2x26W CFL replacement. Includes loop-in loop-out facility for quick installation.



### PRODUCT OVERVIEW

Product name	Insaver HO Topper LED II 150 RO 12W NW
Technology	LED
Cap/Base	N/A
Housing	Aluminium
Mount	Ceiling recessed mounting
Environment	Interior
General application	Hospitality
ETIM Class	EC001744
E-number SE	7465687
Warranty	5 years
Fixture luminous flux (lm)	1134
Luminaire efficacy (lm/W)	95
LOR (%)	100
Colour temperature (K)	4000
Light colour	Neutral White
CRI (Ra)	80
Colour Variation Initial (SDCM)	SDCM3
Beam Angle (°)	74
Glare control	< 25
Photobiological Risk Group	RG0
Total power consumption (W)	12
Electrical protection	Class II
Control gear type	LED driver constant current
Dimmable	No
Dimming method	N/A
LED Flickering Rate	Ultra low (5% or less)
Housing colour	RAL 9003 - Signal white
IP rating	IP44/20
IK rating	IK07
Product EAN number	8711971339311

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### DATA TABLE

#### General data

Product name	Insaver HO Topper LED II 150 RO 12W NW
Technology	LED
Cap/Base	N/A
Housing	Aluminium
Mount	Ceiling recessed mounting
Environment	Interior
General application	Hospitality
Operating temperature range (°C)	-10°C...+25°C
Performance ambient temperature Tq (°C)	25
ETIM Class	EC001744
E-number SE	7465687
Warranty	5 years

#### Optical data

Fixture luminous flux (lm)	1134
Luminaire efficacy (lm/W)	95
LOR (%)	100
Colour temperature (K)	4000
Light colour	Neutral White
CRI (Ra)	80
Colour Variation Initial (SDCM)	SDCM3
Adjustable chromaticity	N
Beam Angle (°)	74
Distribution type	Symmetric
Glare control	< 25
Photobiological Risk Group	RG0

#### Electrical data

Total power consumption (W)	12
Primary Supply/Product voltage - min (V)	220
Primary Supply/Product voltage - max (V)	240
Lamp power factor	0.9
THD (at 230 V, 50 Hz, full load, at 100% dimming level) xx.x %	20
Electrical protection	Class II
Control gear type	LED driver constant current
Dimmable	No
Dimming method	N/A
Drive current (mA)	290
Inrush Current (A)	6.3
Inrush Duration (µs)	830
Glow Wire Test (°C)	850
Energy Efficiency Class (A->G) of contained light source	E
Nominal Frequency (Hz)	50/60Hz

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LED Flickering Rate	Ultra low (5% or less)
Max. products per 10A C Breaker	12
Max. products per 13A C Breaker	16
Max. products per 16A C Breaker	20
Max. products per 20A C Breaker	25

### Lifetime data

Lifespan L70 B50	100000
Lifespan L80 B20	74000
Lifespan L90 B10	34000

### Physical data

Housing colour	RAL 9003 - Signal white
IP rating	IP44/20
IK rating	IK07
Diffuser finish	Opal
Diffuser material	PC Polycarbonate
Reflector finish	High-gloss
Nominal Product Height (mm)	45
Nominal Product Diameter (mm)	165
Cutout Dimensions (W x L in mm or Diameter in mm)	150
Weight (kg)	0.429
Recessed Depth (mm)	150

### Packaging

Single packaging type	Carton
Product EAN number	8711971339311
Packaging single length / height (cm)	19.5
Packaging single width (cm)	19.5
Packaging single depth (cm)	6.2
DUN14 (outer)	18711971339318
Units per outer package	12
Packaging outer length / height (cm)	42.1
Packaging outer width (cm)	42.5
Packaging outer depth (cm)	22.8

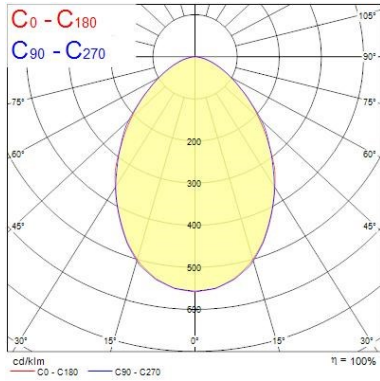
### Safety data

Optimal operating condition (°C)	-10-25
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## PHOTOMETRY

## Insaver HO Topper LED II 150

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Distance [m]	Cone diameter [m]	Beam diameter [m]	Beam angle [°]	Beam angle [°]	Beam angle [°]	Illuminance [lx]
0.5	0.82	0.82	E(0°)	E(C90)	E(C0)	2532
			39.5°	39.4°	582	
1.0	1.65	1.64	E(0°)	E(C90)	E(C0)	633
			39.5°	39.4°	146	
1.5	2.47	2.46	E(0°)	E(C90)	E(C0)	281
			39.5°	39.4°	88	
2.0	3.30	3.29	E(0°)	E(C90)	E(C0)	158
			39.5°	39.4°	56	
2.5	4.12	4.11	E(0°)	E(C90)	E(C0)	101
			39.5°	39.4°	33	
3.0	4.95	4.93	E(0°)	E(C90)	E(C0)	70
			39.5°	39.4°	16	

Distance [m]      Cone diameter [m]      Illuminance [lx]  
 C0 - C180 (Half beam angle: 78.8°)  
 C90 - C270 (Half beam angle: 78.8°)

### TECHNICAL DRAWINGS

