

## 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
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
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
Dimming method	N/A

### DATA TABLE

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### General data

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

### Optical data

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

### Electrical data

<b>Total power consumption (W)</b>	12
<b>Mains voltage (V)</b>	220-240V
<b>Lamp power factor</b>	0.9
<b>THD (at 230 V, 50 Hz, full load, at 100% dimming level) xx.x %</b>	20
<b>Electrical protection</b>	Class II
<b>Control gear type</b>	LED driver constant current
<b>Transformer required</b>	Yes
<b>Dimmable</b>	No
<b>Drive current (mA)</b>	290
<b>Inrush Current (A)</b>	6.3
<b>Inrush Duration (µs)</b>	830
<b>Glow Wire Test (°C)</b>	850
<b>Energy Efficiency Class (A-&gt;G) of contained light source</b>	E
<b>Nominal Frequency (Hz)</b>	50/60Hz
<b>LED Flickering Rate</b>	Ultra low (5% or less)
<b>Max. Luminaires per 10A C Breaker</b>	12
<b>Max. Luminaires per 13A C Breaker</b>	16
<b>Max. Luminaires per 16A C Breaker</b>	20
<b>Max. Luminaires per 20A C Breaker</b>	25

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### 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 Length (mm)	165
Nominal Product Width (mm)	165
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

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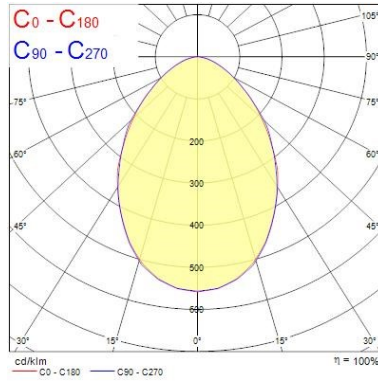
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0.5	0.82 0.82	E(0°) E(C90) E(C0)	2532 892 888
1.0	1.65 1.64	E(0°) E(C90) E(C0)	633 146 146
1.5	2.47 2.46	E(0°) E(C90) E(C0)	281 65 65
2.0	3.30 3.29	E(0°) E(C90) E(C0)	158 36 37
2.5	4.12 4.11	E(0°) E(C90) E(C0)	101 23 23
3.0	4.95 4.93	E(0°) E(C90) E(C0)	70 16 16

Distance [m]      Cone diameter [m]      Illuminance [lx]

— C0 - C180 (Half beam angle: 78.8°)  
— C90 - C270 (Half beam angle: 79.0°)



### TECHNICAL DRAWINGS

