



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.

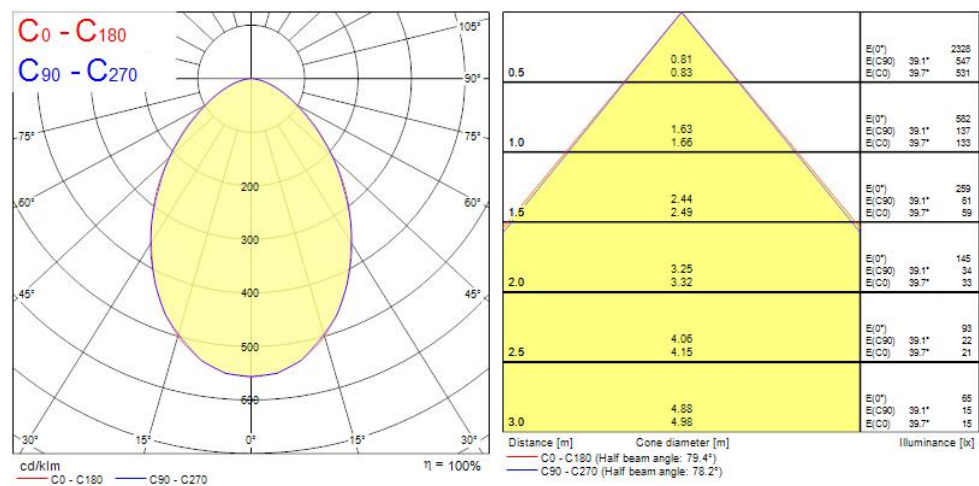
Product Overview

Product name	Insaver HO Topper LED II 150 RO 12W WW
Technology	LED
Housing	Aluminium
Mount	Ceiling recessed mounting
Environment	Interior
General application	Hospitality
ETIM Class	EC001744
E-number SE	7465688
Fixture luminous flux (lm)	1047
Luminaire efficacy (lm/W)	87
LOR (%)	100
Colour temperature (K)	3000
Light colour	Warm White
CRI (Ra)	80
Colour Variation Initial (SDCM)	3
Beam Angle (°)	74
Glare control	< 24
Photobiological Risk Group	RG0
Total power consumption (W)	12
Electrical protection	Class II

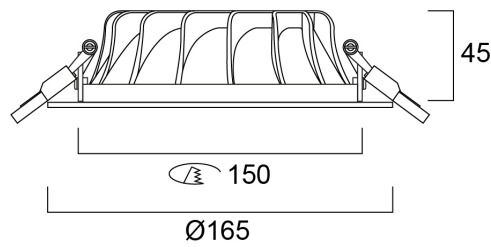
Insaver HO Topper LED II 150 RO 12W WW
3033930

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	8711971339304
Warranty	5 years
Dimming method	N/A

Photometry



Technical drawings



Data table

Insaver HO Topper LED II 150 RO 12W WW 3033930

GENERAL DATA

Product name	Insaver HO Topper LED II 150 RO 12W WW
Technology	LED
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	7465688
Warranty	5 years

OPTICAL DATA

Fixture luminous flux (lm)	1047
Luminaire efficacy (lm/W)	87
LOR (%)	100
Colour temperature (K)	3000
Light colour	Warm White
CRI (Ra)	80
Colour Variation Initial (SDCM)	3
Adjustable chromaticity	N
Beam Angle (°)	74
Distribution type	Symmetric
Glare control	< 24
Photobiological Risk Group	RG0

ELECTRICAL DATA

Total power consumption (W)	12
Mains voltage (V)	220-240V
Lamp power factor	0.9

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THD (at 230 V, 50 Hz, full load, at 100% dimming level) $\leq$ xx.x %	20
Electrical protection	Class II
Control gear required	No
Control gear type	LED driver constant current
Transformer required	Yes
Dimmable	No
Dimming method	N/A
Drive current (mA)	290
Inrush Current (A)	6.3
Inrush Duration (μ s)	830
Glow Wire Test ($^{\circ}$ C)	850
Energy Efficiency Class (A->G) of contained light source	F
Nominal Frequency (Hz)	50/60Hz
LED Flickering Rate	Ultra low (5% or less)
Max. Luminaires per 10A C Breaker	12
Max. Luminaires per 13A C Breaker	16
Max. Luminaires per 16A C Breaker	20
Max. Luminaires 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

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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	8711971339304
Packaging single length / height (cm)	19.5
Packaging single width (cm)	19.5
Packaging single depth (cm)	6.2
DUN14 (outer)	18711971339301
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
Special purpose lamp	No
Dry applications use only	No
Suitable for household illumination	No