

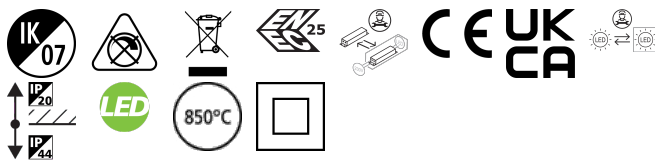
## Insaver HO Topper LED II 150

*Insaver HO Topper LED II 150 RO 12W WW*  
3033930



### 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 WW |
| Technology                      | LED                                    |
| Housing                         | Aluminium                              |
| Mount                           | Ceiling recessed mounting              |
| Environment                     | Interior                               |
| General application             | Hospitality                            |
| ETIM Class                      | EC001744                               |
| E-number SE                     | 7465688                                |
| Warranty                        | 5 years                                |
| 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) | SDCM3                                  |
| Beam Angle (°)                  | 74                                     |
| Glare control                   | < 24                                   |
| 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              | 8711971339304                          |

### DATA TABLE

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### 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 T <sub>a</sub> (°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) | SDCM3      |
| 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                         |
| 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 |
| Transformer required                                           | Yes                         |
| 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       | 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                          |

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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 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                    | 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 |
|----------------------------------|--------|

## PHOTOMETRY

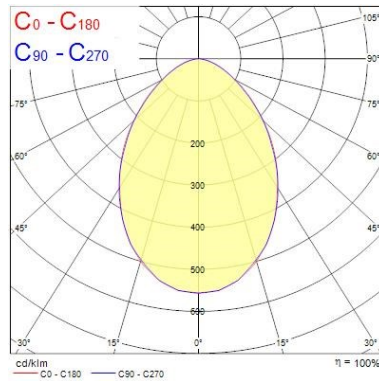
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|     |              |                          |                         |                    |
|-----|--------------|--------------------------|-------------------------|--------------------|
| 0.5 | 0.81<br>0.83 | E(0°)<br>E(C90)<br>E(C0) | 39.1°<br>39.1°<br>39.1° | 2328<br>847<br>531 |
| 1.0 | 1.63<br>1.66 | E(0°)<br>E(C90)<br>E(C0) | 39.1°<br>39.1°<br>39.1° | 582<br>197<br>133  |
| 1.5 | 2.44<br>2.49 | E(0°)<br>E(C90)<br>E(C0) | 39.1°<br>39.1°<br>39.1° | 259<br>81<br>59    |
| 2.0 | 3.25<br>3.32 | E(0°)<br>E(C90)<br>E(C0) | 39.1°<br>39.1°<br>39.1° | 145<br>34<br>23    |
| 2.5 | 4.06<br>4.15 | E(0°)<br>E(C90)<br>E(C0) | 39.1°<br>39.1°<br>39.1° | 93<br>23<br>17     |
| 3.0 | 4.88<br>4.98 | E(0°)<br>E(C90)<br>E(C0) | 39.1°<br>39.1°<br>39.1° | 66<br>16<br>15     |

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

— C0 - C180 (Half beam angle: 75.4°)  
— C90 - C270 (Half beam angle: 75.2°)



## TECHNICAL DRAWINGS

