

Insaver LED II 150

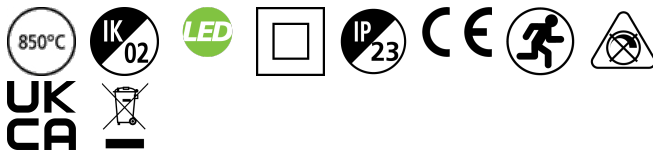
Insaver LED II 150 Low Output NW EB E3

3098109



Product features

- Circular LED downlight with up to 114lm/W efficacy and 2,400 luminaire lumen output. Innovative easy installation system allows for a rapid, single point installation. For 150mm cut outs. IP44 or UGR<19 compliant with additional accessories. 3 hour emergency and surface mounted versions available. Plus3 version includes Wieland GST connector.



PRODUCT OVERVIEW

| | |
|-----------------------------|--|
| Product name | Insaver LED II 150 Low Output NW EB E3 |
| Technology | LED |
| Housing | AGC (advanced graphite composite) |
| Mount | Ceiling recessed mounting |
| Environment | Internal |
| General application | Office |
| ETIM Class | EC001744 |
| Warranty | 5 years |
| Fixture luminous flux (lm) | 1940 |
| Luminaire efficacy (lm/W) | 114 |
| LOR (%) | 100 |
| Colour temperature (K) | 4000 |
| CRI (Ra) | 80 |
| Colour Consistency (SDCM) | 3 |
| Beam Angle (°) | 76 |
| Glare control | < 19 |
| Photobiological Risk Group | RG1 |
| Total power consumption (W) | 17 |
| Electrical protection | Class II |
| Control gear type | Electronic ballast |
| Dimmable | No |
| Housing colour | White |
| IP rating | IP23 |
| IK rating | IK02 |
| Product EAN number | 8711971981091 |

DATA TABLE

General data

| | |
|--------------|--|
| Product name | Insaver LED II 150 Low Output NW EB E3 |
| Technology | LED |
| Housing | AGC (advanced graphite composite) |
| Mount | Ceiling recessed mounting |

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| | |
|---|------------|
| Environment | Internal |
| General application | Office |
| Operating temperature range (°C) | 0°C - 25°C |
| Performance ambient temperature Tq (°C) | 25 |
| ETIM Class | EC001744 |
| Warranty | 5 years |

Optical data

| | |
|----------------------------|-----------|
| Fixture luminous flux (lm) | 1940 |
| Luminaire efficacy (lm/W) | 114 |
| LOR (%) | 100 |
| Colour temperature (K) | 4000 |
| CRI (Ra) | 80 |
| Colour Consistency (SDCM) | 3 |
| Adjustable chromaticity | N |
| Beam Angle (°) | 76 |
| Distribution type | Symmetric |
| Glare control | < 19 |
| Photobiological Risk Group | RG1 |
| Emergency duration (h) | 3 |

Electrical data

| | |
|--|--------------------|
| Total power consumption (W) | 17 |
| Mains voltage (V) | 220-240V~ |
| Electrical protection | Class II |
| Control gear type | Electronic ballast |
| Transformer required | Yes |
| Dimmable | No |
| Drive current (mA) | 700 |
| Inrush Current (A) | 45 |
| Inrush Duration (µs) | 20 |
| Glow Wire Test (°C) | 850 |
| Energy Efficiency Class (A->G) of contained light source | C |
| Nominal Frequency (Hz) | 50/60Hz |
| Max. Luminaires per 10A C Breaker | 50 |
| Max. Luminaires per 13A C Breaker | 65 |
| Max. Luminaires per 16A C Breaker | 80 |
| Max. Luminaires per 20A C Breaker | 100 |
| Max. Luminaires per 10A B Breaker | 30 |
| Max. Luminaires per 13A B Breaker | 39 |
| Max. Luminaires per 16A B Breaker | 48 |
| Max. Luminaires per 20A B Breaker | 60 |

Lifetime data

| | |
|------------------|--------|
| Lifespan L70 B50 | 100000 |
| Lifespan L80 B20 | 100000 |
| Lifespan L90 B10 | 60000 |

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Physical data

| | |
|---|------------|
| Housing colour | White |
| IP rating | IP23 |
| IK rating | IK02 |
| Reflector finish | High-gloss |
| Nominal Product Length (mm) | 169 |
| Nominal Product Width (mm) | 169 |
| Nominal Product Height (mm) | 87 |
| Cutout Dimensions (W x L in mm or Diameter in mm) | 150 |
| Weight (kg) | 1.372 |

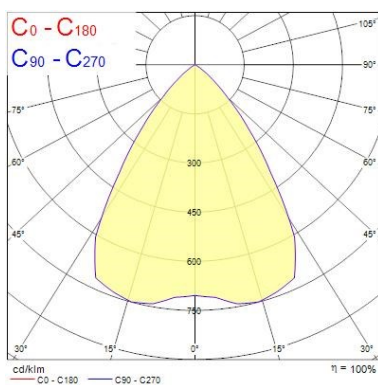
Packaging

| | |
|---------------------------------------|----------------|
| Single packaging type | Carton |
| Product EAN number | 8711971981091 |
| Packaging single length / height (cm) | 25.6 |
| Packaging single width (cm) | 25.5 |
| Packaging single depth (cm) | 16.3 |
| DUN14 (outer) | 08711971981091 |
| Units per outer package | 1 |
| Packaging outer length / height (cm) | 25.6 |
| Packaging outer width (cm) | 25.5 |
| Packaging outer depth (cm) | 16.3 |

Safety data

| | |
|----------------------------------|------|
| Optimal operating condition (°C) | 0-25 |
|----------------------------------|------|

PHOTOMETRY



| Distance [m] | Cone diameter [m] | Beam angle [°] | Illuminance [lx] |
|--------------|-------------------|----------------|------------------|
| 0.5 | 0.64 | 32.6° | 8875 1986 |
| 1.0 | 1.28 | 32.6° | 1394 499 |
| 1.5 | 1.92 | 32.6° | 619 232 |
| 2.0 | 2.56 | 32.6° | 348 125 |
| 2.5 | 3.20 | 32.6° | 223 80 |
| 3.0 | 3.84 | 32.6° | 158 55 |

Distance [m] Cone diameter [m] Illuminance [lx]
C0 - C180 (Half beam angle: 65.2°)

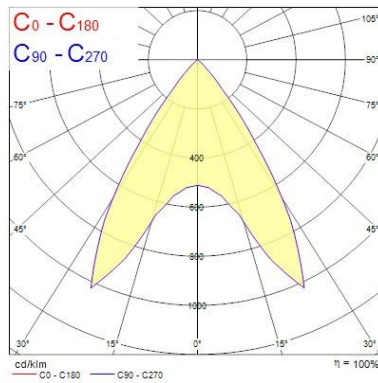
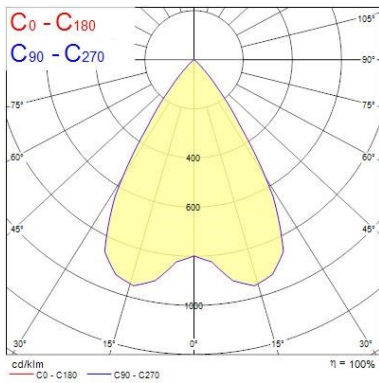
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| | | | | | |
|-----|------|----------------|------|-----|-----|
| 0.5 | 0.00 | E(0°) E(C0) | 0.0° | 214 | 214 |
| 1.0 | 0.00 | E(0°) E(C0) | 0.0° | 54 | 54 |
| 1.5 | 0.00 | E(0°) E(C0) | 0.0° | 24 | 24 |
| 2.0 | 0.00 | E(0°) E(C0) | 0.0° | 13 | 13 |
| 2.5 | 0.00 | E(0°) E(C0) | 0.0° | 9 | 9 |
| 3.0 | 0.00 | E(0°) E(C0) | 0.0° | 6 | 6 |

Distance [m] Cone diameter [m] Illuminance [lx]
 C0 - C180 (Half beam angle: 0.0°)

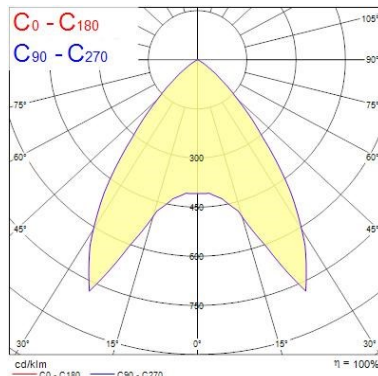
| | | | | | |
|-----|------|----------------|-------|-----|-----|
| 0.5 | 0.66 | E(0°) E(C0) | 33.4° | 241 | 142 |
| 1.0 | 1.32 | E(0°) E(C0) | 33.4° | 60 | 36 |
| 1.5 | 1.98 | E(0°) E(C0) | 33.4° | 27 | 16 |
| 2.0 | 2.64 | E(0°) E(C0) | 33.4° | 15 | 9 |
| 2.5 | 3.30 | E(0°) E(C0) | 33.4° | 10 | 6 |
| 3.0 | 3.96 | E(0°) E(C0) | 33.4° | 7 | 4 |

Distance [m] Cone diameter [m] Illuminance [lx]
 C0 - C180 (Half beam angle: 66.8°)



| | | | | | |
|-----|------|----------------|-------|-----|------|
| 0.5 | 0.72 | E(0°) E(C0) | 35.9° | 646 | 1550 |
| 1.0 | 1.45 | E(0°) E(C0) | 35.9° | 159 | 388 |
| 1.5 | 2.17 | E(0°) E(C0) | 35.9° | 87 | 212 |
| 2.0 | 2.90 | E(0°) E(C0) | 35.9° | 52 | 127 |
| 2.5 | 3.62 | E(0°) E(C0) | 35.9° | 33 | 81 |
| 3.0 | 4.34 | E(0°) E(C0) | 35.9° | 21 | 53 |

Distance [m] Cone diameter [m] Illuminance [lx]
 C0 - C180 (Half beam angle: 71.8°)



TECHNICAL DRAWINGS

