

## Insaver LED II 150

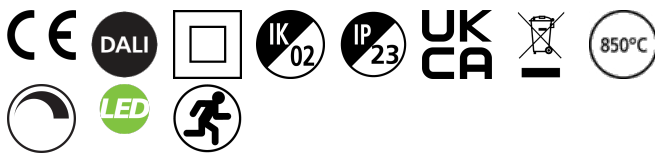
*Insaver LED II 150 High Output NW DALI E3*

3098127



### 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 High Output NW DALI 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)  | 2400                                      |
| Luminaire efficacy (lm/W)   | 109                                       |
| 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) | 22  |
| Electrical protection       | Class II                                  |
| Control gear type           | Electronic ballast                        |
| Dimmable                    | Yes                                       |
| Dimming method              | DALI                                      |
| Minimum dimming level (%)   | 1   |
| Housing colour              | White                                     |
| IP rating                   | IP23                                      |
| IK rating                   | IK02                                      |
| Product EAN number          | 8711971981275                             |

### DATA TABLE

#### General data

|              |   |
|--------------|---|
| Product name | Insaver LED II 150 High Output NW DALI E3 |
| Technology   | LED                                       |

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|   |                                   |
|---|-----------------------------------|
| Housing                                 | AGC (advanced graphite composite) |
| Mount                                   | Ceiling recessed mounting         |
| 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) | 2400      |
| Luminaire efficacy (lm/W)  | 109       |
| 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)                              | 22                 |
| Mains voltage (V)  | 220-240V           |
| Electrical protection                                    | Class II           |
| Control gear type  | Electronic ballast |
| Transformer required                                     | Yes                |
| Dimmable   | Yes                |
| Dimming method   | DALI               |
| Minimum dimming level (%)                                | 1                  |
| Drive current (mA)                                       | 900                |
| Inrush Current (A)                                       | 20                 |
| Inrush Duration (µs)                                     | 100                |
| 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                        | 33                 |
| Max. Luminaires per 13A C Breaker                        | 45                 |
| Max. Luminaires per 16A C Breaker                        | 55                 |
| Max. Luminaires per 20A C Breaker                        | 70                 |
| Max. Luminaires per 10A B Breaker                        | 35                 |
| Max. Luminaires per 13A B Breaker                        | 45                 |
| Max. Luminaires per 16A B Breaker                        | 55                 |
| Max. Luminaires per 20A B Breaker                        | 70                 |

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### Lifetime data

|                  |        |
|------------------|--------|
| Lifespan L70 B50 | 100000 |
| Lifespan L80 B20 | 100000 |
| Lifespan L90 B10 | 46000  |

### 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)                                       | 1.41       |

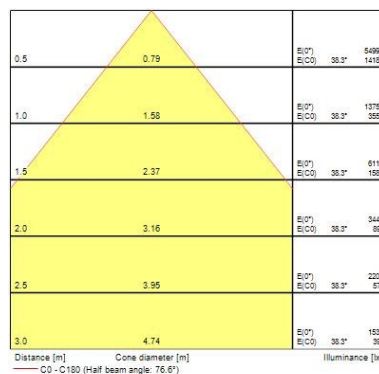
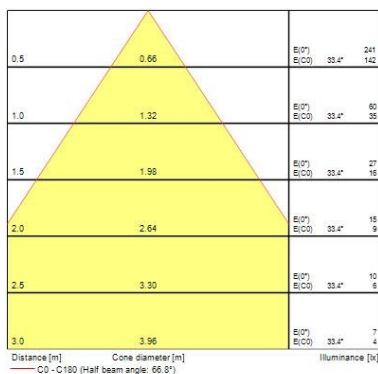
### Packaging

|                                       |                |
|---------------------------------------|----------------|
| Single packaging type                 | Carton         |
| Product EAN number                    | 8711971981275  |
| Packaging single length / height (cm) | 25.5           |
| Packaging single width (cm)           | 25.2           |
| Packaging single depth (cm)           | 16.3           |
| DUN14 (outer)                         | 08711971981275 |
| Units per outer package               | 1              |
| Packaging outer length / height (cm)  | 25.5           |
| Packaging outer width (cm)            | 25.2           |
| Packaging outer depth (cm)            | 16.3           |

### Safety data

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

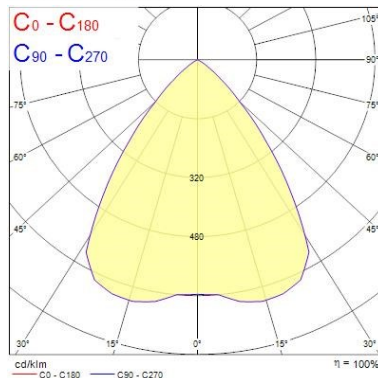
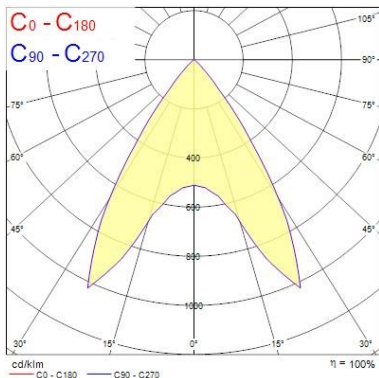
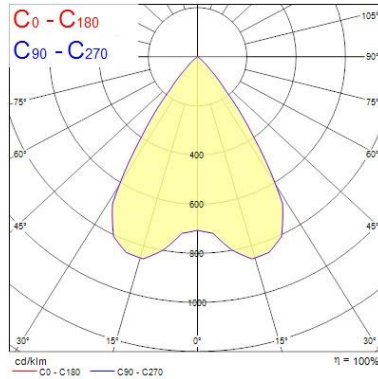
## PHOTOMETRY



## Insaver LED II 150 *Insaver LED II 150 High Output NW DALI E3* 3098127

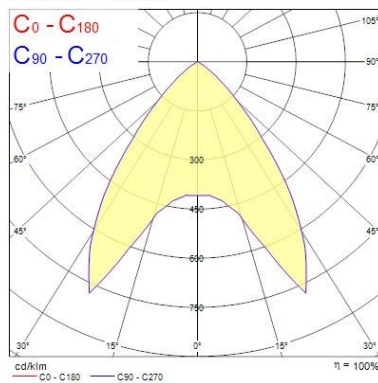
|     |      |                |      |     |     |
|-----|------|----------------|------|-----|-----|
| 0.5 | 0.00 | E(0°)<br>E(C0) | 0.0° | 214 | 214 |
| 1.0 | 0.00 | E(0°)<br>E(C0) | 0.0° | 54  | 54  |
| 1.5 | 0.00 | E(0°)<br>E(C0) | 0.0° | 24  | 24  |
| 2.0 | 0.00 | E(0°)<br>E(C0) | 0.0° | 13  | 13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

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



|     |      |                |       |      |      |
|-----|------|----------------|-------|------|------|
| 0.5 | 0.68 | E(0°)<br>E(C0) | 34.4° | 6102 | 2385 |
| 1.0 | 1.37 | E(0°)<br>E(C0) | 34.4° | 1525 | 591  |
| 1.5 | 2.05 | E(0°)<br>E(C0) | 34.4° | 878  | 232  |
| 2.0 | 2.74 | E(0°)<br>E(C0) | 34.4° | 391  | 130  |
| 2.5 | 3.42 | E(0°)<br>E(C0) | 34.4° | 244  | 83   |
| 3.0 | 4.11 | E(0°)<br>E(C0) | 34.4° | 169  | 58   |

Distance [m]    Cone diameter [m]  
 C0 - C180 (Half beam angle: 68.8°)    Illuminance [lx]



### TECHNICAL DRAWINGS

