

## INSAVER SLIM 220 SURFACE MOUNTED

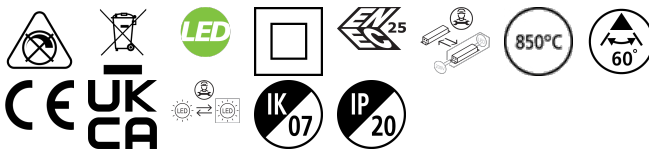
*Insaver Slim UGR19 220 2300lm 830 Surface*

0030318



### Product features

- Insaver Slim is a surface mounted LED downlight ,Die-cast aluminium body, loop in loop out connector for quick installation, Non dimmable LED driver, 20W; 2300lm; 115lm/W; 3000K; UGR <19 with height of 95 mm. Meets TP(a) requirements.



### PRODUCT OVERVIEW

|                                 |                                           |
|---------------------------------|-------------------------------------------|
| Product name                    | Insaver Slim UGR19 220 2300lm 830 Surface |
| Technology                      | LED                                       |
| Cap/Base                        | N/A                                       |
| Housing                         | Aluminium                                 |
| Mount                           | Ceiling surface mounting                  |
| General application             | Hospitality, Office, Retail               |
| ETIM Class                      | EC001744                                  |
| E-number FI                     | 4278057                                   |
| Warranty                        | 5 years                                   |
| Fixture luminous flux (lm)      | 2300                                      |
| Luminaire efficacy (lm/W)       | 115                                       |
| Colour temperature (K)          | 3000                                      |
| Light colour                    | Warm White                                |
| CRI (Ra)                        | 80                                        |
| Colour Variation Initial (SDCM) | SDCM3                                     |
| Beam Angle (°)                  | 60                                        |
| Beam Angle (°)                  | NA                                        |
| Glare control                   | < 19                                      |
| Photobiological Risk Group      | RG1                                       |
| Total power consumption (W)     | 20                                        |
| 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                       | IP20                                      |
| IK rating                       | IK07                                      |
| Product EAN number              | 5410288303185                             |

### DATA TABLE

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### General data

|                                                     |                                           |
|-----------------------------------------------------|-------------------------------------------|
| Product name                                        | Insaver Slim UGR19 220 2300lm 830 Surface |
| Technology                                          | LED                                       |
| Cap/Base                                            | N/A                                       |
| Housing                                             | Aluminium                                 |
| Mount                                               | Ceiling surface mounting                  |
| General application                                 | Hospitality, Office, Retail               |
| Operating temperature range (°C)                    | -10°C...+40°C                             |
| Performance ambient temperature T <sub>a</sub> (°C) | 40                                        |
| ETIM Class                                          | EC001744                                  |
| E-number FI                                         | 4278057                                   |
| Warranty                                            | 5 years                                   |

### Optical data

|                                 |            |
|---------------------------------|------------|
| Fixture luminous flux (lm)      | 2300       |
| Luminaire efficacy (lm/W)       | 115        |
| Colour temperature (K)          | 3000       |
| Light colour                    | Warm White |
| CRI (Ra)                        | 80         |
| Colour Variation Initial (SDCM) | SDCM3      |
| Beam Angle (°)                  | 60         |
| Beam Angle (°)                  | NA         |
| Distribution type               | Symmetric  |
| Glare control                   | < 19       |
| Photobiological Risk Group      | RG1        |

### Electrical data

|                                                                |                             |
|----------------------------------------------------------------|-----------------------------|
| Total power consumption (W)                                    | 20                          |
| 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 |
| No. Of switching cycles before premature failures              | >100000                     |
| Dimmable                                                       | No                          |
| Dimming method                                                 | N/A                         |
| Drive current (mA)                                             | 600                         |
| Inrush Current (A)                                             | 17.2                        |
| Inrush Duration (µs)                                           | 200                         |
| Glow Wire Test (°C)                                            | 850                         |
| Energy Efficiency Class (A->G) of contained light source       | D                           |
| Nominal Frequency (Hz)                                         | 50/60Hz                     |
| LED Flickering Rate                                            | Ultra low (5% or less)      |
| Max. Luminaires per 10A C Breaker                              | 20                          |
| Max. Luminaires per 13A C Breaker                              | 26                          |
| Max. Luminaires per 16A C Breaker                              | 32                          |

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|                                   |    |
|-----------------------------------|----|
| Max. Luminaires per 20A C Breaker | 40 |
| Max. Luminaires per 10A B Breaker | 12 |
| Max. Luminaires per 13A B Breaker | 15 |
| Max. Luminaires per 16A B Breaker | 19 |
| Max. Luminaires per 20A B Breaker | 24 |

### Lifetime data

|                  |       |
|------------------|-------|
| Lifespan L70 B50 | 90000 |
| Lifespan L80 B20 | 90000 |
| Lifespan L90 B10 | 39000 |

### Physical data

|                               |                         |
|-------------------------------|-------------------------|
| Housing colour                | RAL 9003 - Signal white |
| IP rating                     | IP20                    |
| IK rating                     | IK07                    |
| Diffuser finish               | Other                   |
| Diffuser material             | None                    |
| Reflector finish              | Silver                  |
| Nominal Product Height (mm)   | 94                      |
| Nominal Product Diameter (mm) | 220                     |
| Weight (kg)                   | 1.65                    |

### Packaging

|                                       |                |
|---------------------------------------|----------------|
| Single packaging type                 | Carton         |
| Product EAN number                    | 5410288303185  |
| Packaging single length / height (cm) | 22.6           |
| Packaging single width (cm)           | 22.6           |
| Packaging single depth (cm)           | 10.3           |
| DUN14 (outer)                         | 15410288303182 |
| Units per outer package               | 8              |
| Packaging outer length / height (cm)  | 45.5           |
| Packaging outer width (cm)            | 23.5           |
| Packaging outer depth (cm)            | 43.0           |

### Safety data

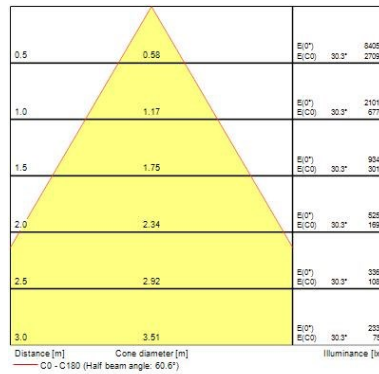
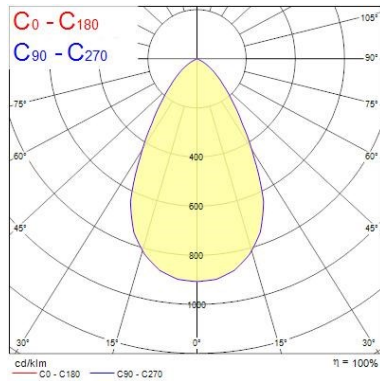
|                                  |        |
|----------------------------------|--------|
| Optimal operating condition (°C) | -10-40 |
|----------------------------------|--------|

## PHOTOMETRY

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## TECHNICAL DRAWINGS

