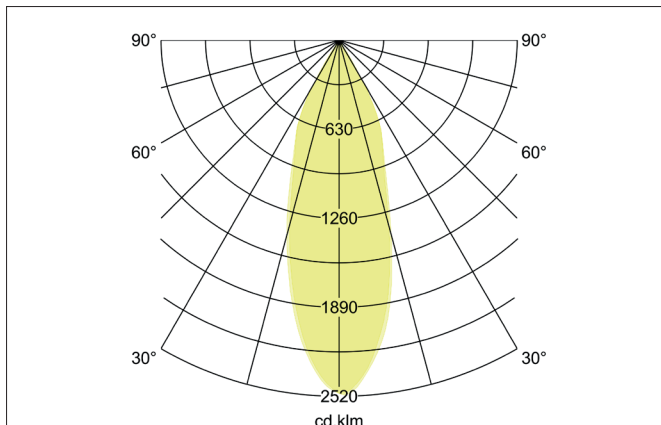
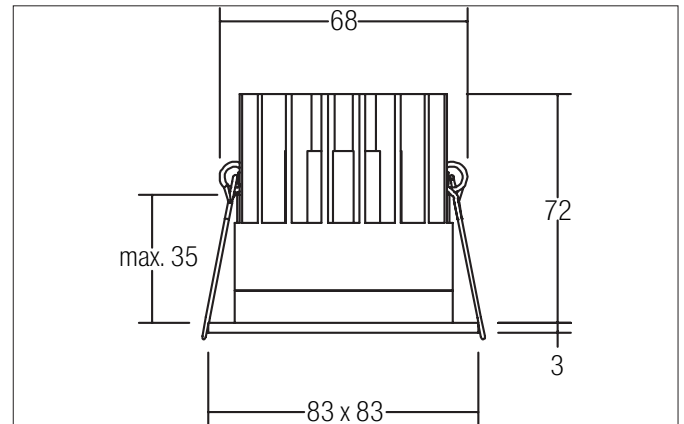


**ALTERO-S LED recessed downlight, IP44**

Article no. 12036183


**Tender**

Square LED recessed downlight, IP44, tool-free ceiling installation using installation springs. Ceiling cut-out Ø 68 mm, installation depth 72 mm, outer diameter 83 mm, weight 0.274 kg, silver reflector with rotationally symmetrical deep-wide beam light distribution. Transparent glass cover, rated luminous flux 820 lm, rated power 1 x 9.2 W, light color warm white, most similar color temperature (CCT) 3,000 K, general color rendering index CRI > 80, housing material: aluminum, color: textured black, permissible ambient temperature (ta): -20 °C - +25 °C, protection class (EN 61140): III, degree of protection (DIN EN 60529): IP44 when installed in closed ceilings. For connection to an external control gear, which is not included with the luminaire. Dimmable depending on the control gear.

**Product Benefits**

- Modular aufgebaute Produktserie mit hoher Farbvarianz.
- Für flexible Beleuchtungslösungen bei veränderlichen Raumkonzepten von neutral bis akzentuiert.
- Lieferbar in den Farbtemperaturen 3.000 K und 4.000 K und dim2warm (3.000 K - 1.800 K), TunableWhite (2.700 K - 6.500 K) und 2.700 K.
- Standard-Deckenausschnitt 68 mm.
- Vertiefter Lichtaustritt.
- Schutzart IP44 bei Einbau in geschlossenen Decken.
- Ebenfalls lieferbar in runder Ausführung.

**ALTERO-S LED recessed downlight, IP44**

Article no. 12036183

| Article data       |                              |
|--------------------|------------------------------|
| Article no.        | 12036183                     |
| GTIN               | 4251433937203                |
| Series name        | ALTERO-S                     |
| Short description  | LED recessed downlight, IP44 |
| Material           | Aluminium                    |
| Colour             | Black                        |
| Type of surface    | Structure                    |
| Shape              | Square                       |
| Outer diameter     | 83 mm                        |
| Length             | 83 mm                        |
| Width              | 83 mm                        |
| Built-in diameter  | 68 mm                        |
| Installation depth | 72 mm                        |
| Hight              | 3 mm                         |
| Weight             | 0.274 kg                     |
| Conformance        | CE, UKCA                     |

| Lighting technology          |           |
|------------------------------|-----------|
| Colour temperature           | 3.000 K   |
| Light colour                 | White     |
| Light output                 | Direct    |
| Luminous flux                | 820 lm    |
| System efficiency            | 89 lm/W   |
| Colour rendering             | CRI > 80  |
| Reflector                    | Faceted   |
| Reflector colour             | silver    |
| Beam angle                   | 33°       |
| Light sharing                | Symmetric |
| Adjustable color temperature | No        |

| Operating technology of the luminaire |  |
|---------------------------------------|--|
| System output                         | 9.2 W  |
| Voltage type                          | DC   |
| Current                               | 500 mA   |
| Lamp                                  | LED  |
| Protection class                      | III  |
| Protection class on the ceiling side  | IP20   |
| Degree of protection                  | IP44   |
| Dimmable                              | Depending on type of control gear  |
| Control                               | Depending on driver  |
| Bulb change possible                  | The light source of this luminaire may only be replaced by the manufacturer or a service technician commissioned by him or a similarly qualified person. |
| Energy efficiency class               | nicht erforderlich   |

| Mounting technology    |   |
|------------------------|---|
| Mounting method        | Recessed mounting                         |
| Place of installation  | Ceiling-mounted                           |
| Adjustability          | Not adjustable                            |
| Max. ceiling thickness | 35 mm                                     |
| Further references     | No cover with thermal insulation material |
| Material cover         | Glass transparent                         |

**ALTERO-S LED recessed downlight, IP44**

Article no. 12036183

| Packing data            |  |
|-------------------------|--|
| Gross weight            | 0.324 kg   |
| Length of packaging     | 100 mm   |
| Packaging width         | 100 mm   |
| Packaging height        | 100 mm   |
| Disposal at end of life | <p>This product must not be disposed of with household waste. You are obliged, to dispose of such electrical waste separately.</p> <p>By disposing of electrical waste and other old or defective electronics separately, you support recycling or other forms of re-use. In that way you help to take care and to avoid that harmful substances get into the environment.</p> |

| Required accessories  |  |
|---|--|
| Article no.: 17823010   | LED converter 500 mA, on/off switchable            |
| Power: 1 - 22 W, ohne Konfektionierung  |  |
| Dimensions: 146.5 mm x 43.5 mm x 30 mm  |  |
| <a href="https://www.brumberg.com/fileadmin/products/Datenblatt_17823010_2021_DE.pdf">https://www.brumberg.com/fileadmin/products/Datenblatt_17823010_2021_DE.pdf</a> |  |
| Article no.: 17822010   | LED converter 500 mA, trailing-edge phase dimmable |
| Power: 8 - 20 W, ohne Konfektionierung  |  |
| Dimensions: 110.5 mm x 52 mm x 22 mm  |  |
| <a href="https://www.brumberg.com/fileadmin/products/Datenblatt_17822010_2021_DE.pdf">https://www.brumberg.com/fileadmin/products/Datenblatt_17822010_2021_DE.pdf</a> |  |
| Article no.: 17829010   | LED converter 500 mA, trailing-edge phase dimmable |
| Power: 1 - 24 W, ohne Konfektionierung  |  |
| Dimensions: 166 mm x 46 mm x 34 mm  |  |
| <a href="https://www.brumberg.com/fileadmin/products/Datenblatt_17829010_2021_DE.pdf">https://www.brumberg.com/fileadmin/products/Datenblatt_17829010_2021_DE.pdf</a> |  |
| Article no.: 17824010   | LED converter 500 mA, 1-10V dimmable (analog)      |
| Power: 5 - 27 W, ohne Konfektionierung  |  |
| Dimensions: 146.5 mm x 43.5 mm x 30 mm  |  |
| <a href="https://www.brumberg.com/fileadmin/products/Datenblatt_17824010_2021_DE.pdf">https://www.brumberg.com/fileadmin/products/Datenblatt_17824010_2021_DE.pdf</a> |  |
| Article no.: 17826010   | LED converter 500 mA, DALI dimmable (digital)      |
| Power: 5 - 27 W, ohne Konfektionierung  |  |
| Dimensions: 146.5 mm x 44 mm x 30 mm  |  |
| <a href="https://www.brumberg.com/fileadmin/products/Datenblatt_17826010_2021_DE.pdf">https://www.brumberg.com/fileadmin/products/Datenblatt_17826010_2021_DE.pdf</a> |  |

| Optional accessories  |   |
|---|---|
| Article no.: 83330000   | Connection box 230 V AC, 3-pole                 |
| Dimensions: 80 mm x 41 mm x 34 mm   |   |
| <a href="https://www.brumberg.com/fileadmin/products/Datenblatt_83330000_2021_DE.pdf">https://www.brumberg.com/fileadmin/products/Datenblatt_83330000_2021_DE.pdf</a> |   |
| Article no.: 83331000   | Connection box 230 V AC, 5-pole (DALI / 1-10 V) |
| Dimensions: 95 mm x 55 mm x 30 mm   |   |
| <a href="https://www.brumberg.com/fileadmin/products/Datenblatt_83331000_2021_DE.pdf">https://www.brumberg.com/fileadmin/products/Datenblatt_83331000_2021_DE.pdf</a> |   |