



# CoreLine Downlight

## DN140B LED10S/830 PSD-E WR IP54

CoreLine Downlight, 11.5 W, D150 mm, 1100 lm, 3000 K, DALI, White reflector, Clear, IP20/54

The CoreLine Downlight range of recessed luminaires is designed to replace CFL-ni/CFL-i based downlight luminaires. Their attractive TCO helps customers to make the switch to LED. These luminaires create a natural lighting effect for use in general lighting applications. They also deliver instant energy savings and have a much longer lifetime, creating a real value-for-money and environmentally friendly solution. They are easy to install thanks to their standard cut-out size and push-in connectors.

### Product data

| General Information      |  |                                  |   |
|--------------------------|--|----------------------------------|---|
| Light source replaceable | No   | Flammability mark                | For mounting on normally flammable surfaces |
| Number of gear units     | Unit   | ENEC mark                        | -   |
| Driver included          | Yes  | Glow-wire test                   | Temperature 850 °C, duration 30 s           |
| Remarks                  | *- According to the Lighting Europe guidance paper 'Evaluating performance of LED based luminaires – January 2018': statistically there is no relevant difference in lumen maintenance between the B50 and, for example, the B10. Therefore, the median useful life (B50) value also represents the B10 value. | EU RoHS compliant                | Yes   |
| Product family code      | DN140B [Coreline Downlight Gen4]   | Light Technical                  |   |
| Lighting Technology      | LED  | Luminous Flux                    | 1,100 lm                                    |
| Value ladder             | Performance  | Saturated Red (R9)               | <50   |
| CE mark                  | Yes  | Correlated Colour Temperature    | 3000 K                                      |
| Warranty period          | 5 years  | Luminous efficacy (rated) (nom.) | 96 lm/W                                     |
|                          |  | Colour rendering index (CRI)     | ≥80   |
|                          |  | Flickering value (PstLM)         | 1   |
|                          |  | Stroboscopic effect              | 0.4   |
|                          |  | Beam angle of light source       | 120 degree(s)                               |
|                          |  | Light source colour              | 830 warm white                              |

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|                             |     |
|-----------------------------|-----|
| Optic type                  | -   |
| Luminaire light beam spread | 60° |
| Unified Glare Rating (CEN)  | 25  |

### Operating and Electrical

|  |                                   |
|--|-----------------------------------|
| Input Voltage                            | 220-240 V                         |
| Line Frequency                           | 50 to 60 Hz                       |
| Initial CLO power consumption            | - W                               |
| Average CLO power consumption            | - W                               |
| End CLO power consumption                | - W                               |
| Inrush current                           | 20.4 A                            |
| Inrush time                              | 0.195 ms                          |
| Power Consumption                        | 11.5 W                            |
| Power Factor (Fraction)                  | 0.9                               |
| Connection                               | Push-in connector and pull relief |
| Cable                                    | -                                 |
| Number of products on MCB of 16 A type B | 24                                |

### Temperature

|                           |               |
|---------------------------|---------------|
| Ambient temperature range | -20 to +40 °C |
|---------------------------|---------------|

### Controls and Dimming

|                               |  |
|-------------------------------|--|
| Dimmable                      | Yes  |
| Driver/power unit/transformer | Power supply unit with DALI interface external |
| Control interface             | DALI   |
| Constant light output         | No   |

### Mechanical and Housing

|                             |                 |
|-----------------------------|-----------------|
| Housing material            | Aluminium       |
| Reflector material          | Polycarbonate   |
| Optic material              | Polycarbonate   |
| Optical cover/lens material | Glass           |
| Fixation material           | Steel           |
| Housing Colour              | White           |
| Optical cover/lens finish   | Clear           |
| Reflector finish            | White reflector |
| Overall length              | 0 mm            |
| Overall width               | 0 mm            |
| Overall height              | 82 mm           |
| Overall diameter            | 162 mm          |

|                                     |               |
|-------------------------------------|---------------|
| Dimensions (height x width x depth) | 82 x 0 x 0 mm |
|-------------------------------------|---------------|

### Approval and Application

|                              |   |
|------------------------------|---|
| Ingress protection code      | IP20/54 [Finger-protected; dust accumulation-protected, splash-proof] |
| Mech. impact protection code | IK02 [0.2 J standard]   |
| Sustainability rating        | -   |
| Protection class IEC         | Safety class I  |
| Photobiological risk         | Photobiological risk group 1 @200mm to EN62778                        |

### Initial Performance (IEC Compliant)

|                             |                      |
|-----------------------------|----------------------|
| Luminous flux tolerance     | +/-10%               |
| Initial chromaticity        | (0.435,0.405) SDCM≤5 |
| Power consumption tolerance | +/-10%               |

### Over Time Performance (IEC Compliant)

|  |     |
|--|-----|
| Driver failure rate at 5,000 hours                       | 1 % |
| Control gear failure rate at median useful life 50,000 h | 5 % |
| Lumen maintenance at median useful life* 50,000 h        | L70 |

### Application Conditions

|                                    |       |
|------------------------------------|-------|
| Performance ambient temperature Tq | 25 °C |
| Maximum dim level                  | 1%    |
| Suitable for random switching      | Yes   |

### Product Data

|                                   |                                 |
|-----------------------------------|---------------------------------|
| Order product name                | DN140B LED10S/830 PSD-E WR IP54 |
| Full product name                 | DN140B LED10S/830 PSD-E WR IP54 |
| Full EOC                          | 871016332598900                 |
| Order code                        | 32598900                        |
| Material no. (12 NC)              | 911401632805                    |
| SAP numerator – quantity per pack | 1                               |
| EAN/UPC – Product/Case            | 8710163325989                   |
| Numerator – packs per outer box   | 1                               |
| EAN/UPC - Case                    | 8710163325989                   |

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### Dimensional drawing

