# CoreLine SlimDownlight

## DN145B LED20S/840 PSD-E II WH

DN145B | Coreline Slimdownlight G3_LSC - LED20S | LED Module, system flux 2000 lm - 840 neutral white - Power supply unit with DALI interface - Safety class II

CoreLine SlimDownlight delivers on the CoreLine promise of innovative, easy to use and high-quality indoor LED downlights. CoreLine SlimDownlight is an innovative range of recessed and surface-mounted luminaires that is designed to provide uniform lighting across multiple application areas. With instant energy savings and a longer lifetime, this is an environmentally-friendly and cost-saving solution. Our slim LED downlights fit the same size cut-out, making then simple and easy to install, while the minimal built-in depth of 34mm means they are an ideal space-saving solution, especially for projects with limited space for installation. An Interact ready option with integrated wireless communications is available in this family, which can be used with Interact gateways, sensors and software.

## Product data

### General Information

| | |
|---|---|
| Lamp family code | LED20S [LED Module, system flux 2000 lm] |
| Light source replaceable | No |
| Number of gear units | 1 unit |
| Driver included | Yes |
| Remarks | *-Per Lighting Europe guidance paper "Evaluating performance of LED based luminaires - January 2018": statistically there is no relevant difference in lumen maintenance between B50 and for example |

| | |
|---|---|
| | B10. Therefore, the median useful life (B50) value also represents the B10 value. |
| Service tag | Yes |
| Product family code | DN145B [Coreline Slimdownlight G3_LSC] |
| Lighting Technology | LED |
| Value ladder | Performance |

### Light Technical

| | |
|---|---|
| Luminous Flux | 2,100 lumen |
| Saturated Red (R9) | <50 |

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| | |
|---|---|
| Correlated Color Temperature (Nom) | 4000 K |
| Luminous Efficacy (rated) (Nom) | 93 lm/W |
| Color rendering index (CRI) | >80 |
| Number of light sources | 1 |
| Beam angle of light source | 120 degree(s) |
| Light source color | 840 neutral white |
| Optic type | Beam angle 90° |
| Optical cover/lens type | Opal |
| Luminaire light beam spread | 84° |
| Unified glare rating CEN | 28 |

## Operating and Electrical

| | |
|---|---|
| Input Voltage | 220 to 240 V |
| Line Frequency | 50 or 60 Hz |
| Input Frequency | 50 or 60 Hz |
| Initial CLO power consumption | – W |
| Average CLO power consumption | – W |
| Power Consumption | 22.5 W |
| Inrush current | 20.4 A |
| Inrush time | 0.0019 ms |
| Power Factor (Fraction) | 0.9 |
| Connection | Connection unit 2-pole |
| Cable | – |
| Number of products on MCB of 16 A type B | 24 |

## Temperature

| | |
|---|---|
| Ambient temperature range | 0 to +35 °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

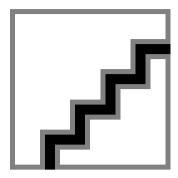| | |
|---|---|
| Housing Material | Aluminum die cast |
| Reflector material | – |
| Optic material | Polymethyl methacrylate |
| Optical cover/lens material | Polystyrene |
| Fixation material | – |
| Housing Color | White |
| Optical cover/lens finish | Opal |
| Overall height | 28 mm |

| | |
|---|---|
| Overall diameter | 215 mm |

## Approval and Application

| | |
|---|---|
| Ingress protection code | IP20/44 [Finger-protected; wire-protected, splash-proof] |
| Mech. impact protection code | IK02 [0.2 J standard] |
| Sustainability rating | – |
| Protection class IEC | Safety class II |
| Glow-wire test | Temperature 650 °C, duration 30 s |
| Flammability mark | For mounting on normally flammable surfaces |
| CE mark | Yes |
| ENEC mark | ENEC mark |
| Warranty period | 5 years |
| EU RoHS compliant | Yes |

## Initial Performance (IEC Compliant)

| | |
|---|---|
| Luminous flux tolerance | +/-10% |
| Initial chromaticity | (0.38212,0.38031) SDCM<3 |
| Power consumption tolerance | +/-10% |

## Over Time Performance (IEC Compliant)

| | |
|---|---|
| Driver failure rate at 5000 h | 0.0015 % |
| Control gear failure rate at median useful life 50000 h | 0.1 % |
| Lumen maintenance at median useful life* 50000 h | L70 |

## Application Conditions

| | |
|---|---|
| Performance ambient temperature Tq | 25 °C |
| Maximum dim level | Not applicable |
| Suitable for random switching | Yes |

## Product Data

| | |
|---|---|
| Full product code | 871869996103999 |
| Order product name | DN145B LED20S/840 PSD-E II WH |
| Order code | 910500465904 |
| Numerator – Quantity Per Pack | 1 |
| Numerator – Packs per outer box | 10 |
| Material number (12NC) | 910500465904 |
| Full product name | DN145B LED20S/840 PSD-E II WH |
| EAN/UPC – Case | 8718699961091 |

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**Dimensional drawing**

www.lighting.philips.com

2023, May 16 – data subject to change