



CoreLine Downlight gen5

DN142B 20S/840 PSD-E WR IP54

CoreLine Downlight gen5, 20.5 W, D200 mm, 2000 lm, 4000 K, DALI, White reflector, IP20/54, EL-ready

D200 mm, Polycarbonate, White, Pure white (RAL9010), Recessed, Power supply unit with DALI interface external, 2000 lm, 20.5 W, 116 lm/W, 4000 K, (0.380,0.377) SDCM \leq 5, White reflector perforated without louvre, White reflector, Polycarbonate, IP20/54 | Finger-protected; dust accumulation-protected, splash-proof, IK02 | 0.2 J standard, Safety class II, 2 cables 0.15 m with connectors 2-pole, Emergency lighting ready (through compatible battery kit accessory)

Warnings and Safety

- Do not apply excessive force to the cable & DC connector, make sure that the connector clip is locked before turning the power on.

Product data

| General Information | | Operating and Electrical | |
|----------------------|-------------|-------------------------------------|---|
| Number of gear units | Unit | Correlated Colour Temperature (Nom) | 4000 K |
| Driver included | Yes | Luminous efficacy (rated) (nom.) | 116 lm/W |
| Service Tag | Yes | Colour rendering index (CRI) | >80 |
| Mounting | Recessed | Beam angle of light source | - degree(s) |
| Value ladder | Performance | Light source colour | 840 neutral white |
| Warranty period | 5 years | Optic type | White reflector perforated without louvre |
| | | Luminaire light beam spread | 84° |
| | | Unified Glare Rating (CEN) | 25 |
| Light Technical | | | |
| Luminous Flux | 2,000 lm | Input Voltage | 220 to 240 V |
| Saturated Red (R9) | <50 | | |

CoreLine Downlight gen5

| | |
|---|--|
| Line Frequency | 50 to 60 Hz |
| Initial CLO power consumption | - W |
| Average CLO power consumption | - W |
| Inrush current | 10 A |
| Inrush time | 0.002 ms |
| Power Consumption | 20.5 W |
| Power Factor (Fraction) | 0.95 |
| Connection | - |
| Cable | 2 cables 0.15 m with connectors 2-pole |
| Number of products on MCB (16 A type B) | 100 |
| Suitable for random switching | Yes |
| Protection class IEC | Safety class II |
| Total harmonic distortion | 35 % |

Controls and Dimming

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|-------------------------------|--|
| Dimmable | Yes |
| Driver/power unit/transformer | Power supply unit with DALI interface external |
| Control interface | DALI |
| Constant light output | No |
| DALI standard | DALI-2™ |

Mechanical and Housing

| | |
|------------------------------|---|
| Housing material | Polycarbonate |
| Reflector material | Polycarbonate |
| Optic material | Polycarbonate |
| Optical cover/lens material | Polycarbonate |
| Fixation material | - |
| Housing Colour | White |
| Optical cover/lens finish | - |
| Reflector finish | White reflector |
| Overall height | 105 mm |
| Overall diameter | 216 mm |
| Ingress protection code | IP20/54 [Finger-protected; dust accumulation-protected, splash-proof] |
| Mech. impact protection code | IK02 [0.2 J standard] |
| Mounting | Recessed |
| Net Weight (Piece) | 0.800 kg |

Emergency Operation

| | |
|--------------------|---|
| Central Emergency | No |
| Emergency lighting | Emergency lighting ready (through compatible battery kit accessory) |

Approval and Application

| | |
|-------------------|---|
| Glow-wire test | Temperature 650 °C, duration 30 s |
| Flammability mark | For mounting on normally flammable surfaces |
| CE mark | Yes |
| ENEC mark | - |

| | |
|------------------------------------|---|
| Photobiological risk | Photobiological risk group 1 @ 200mm to EN62471 |
| EU RoHS compliant | Yes |
| Performance ambient temperature Tq | 25 °C |
| Stroboscopic effect | 1 |
| Ambient temperature range | -20 to +40 °C |

Initial Performance (IEC Compliant)

| | |
|-----------------------------|----------------------|
| Luminous flux tolerance | -10% / +10% |
| Initial chromaticity | (0.380,0.377) SDCM≤5 |
| Power consumption tolerance | +/-10% |

Over Time Performance (IEC Compliant)

| | |
|---|-----|
| Control gear failure rate at median useful life 50,000 h | 5 % |
| Lumen maintenance (EN-IEC 62722-2-1) at median useful life* 50000 h | L80 |

Sustainability Data

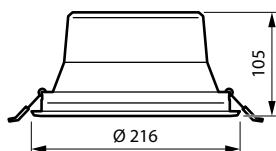
| | |
|--|---|
| Sustainability rating | Unclassified |
| Repair class | Repair Class D, this product is not designed to be repaired. |
| Embedded carbon (A1-A3) | 4.67 kg CO ₂ e |
| Product non-virgin material ratio | 32 % |
| Recyclable the content ratio of the finished product | 32.9 % |
| GWP total B6 (kg CO ₂ eq) Declared Unit | Please calculate using your local energy mix value: Power Declared Unit (kW) * Service life (hrs) Declared Unit * Energy mix (kg CO ₂ eq / kWh) |
| GWP total B6 (kg CO ₂ eq) Functional Unit | Please calculate using your local energy mix value: POWER DECLARED UNIT (kW) * 1000 (lm) / LUMEN OUTPUT DECLARED UNIT (lm) * 35000 (hrs) * ENERGY MIX (kg CO ₂ eq / kWh) |

Product Data

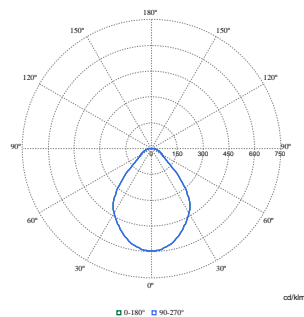
| | |
|---------------------------------|----------------------------------|
| Order product name | DN142B 20S/840 PSD-E WR IP54 |
| Full product name | DN142B 20S/840 PSD-E WR IP54 |
| Full EOC | 872016910900100 |
| Order code | 910505103599 |
| Material no. (12 NC) | 910505103599 |
| Numerator – quantity per pack | 1 |
| EAN/UPC – Product/Case | 8720169109001 |
| Numerator – packs per outer box | 1 |
| EAN/UPC - Case | 8720169109001 |
| Product family code | DN142B [CoreLine Downlight gen5] |

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Dimensional drawing



Photometric data



Polar Normal (separate) - DN142BI - 910505103599

