PHILIPS

## DN145B LED20S/830 PSU II WH

911401806180



# CoreLine SlimDownlight, 21 W, D205 mm, 2100 lm, 3000 K, Opal, IP20/44

D205 mm, Aluminum die cast, White, Traffic white (RAL9016), Recessed, Power supply unit (On/Off), 2100 lm, 21 W, 100 lm/W, 3000 K, (0.43657,0.40454) SDCM<3, Beam angle 90°, Opal, Polystyrene, IP20/44 | Finger-protected; wire-protected, splash-proof, IK02 | 0.2 J standard, Safety class II, Connection unit 2-pole

## 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 |
| Sustainability rating | Unclassified |
| Service tag | Yes |
| Lighting Technology | LED |
| Mounting | Recessed |

| | |
|---|---|
| Value ladder | Performance |
| Warranty period | 5 years |

## Light Technical

| | |
|---|---|
| Luminous Flux | 2,100 lm |
| Saturated Red (R9) | <50 |
| Correlated Color Temperature (Nom) | 3000 K |
| Luminous Efficacy (rated) (Nom) | 100 lm/W |
| Color rendering index (CRI) | >80 |
| Number of light sources | 1 |
| Beam angle of light source | 120 degree(s) |
| Light source color | 830 warm white |
| Optic type | Beam angle 90° |
| 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 |
| Initial CLO power consumption | - W |
| Average CLO power consumption | - W |
| Inrush current | 28.9 A |
| Inrush time | 0.0016 ms |
| Power Consumption | 21 W |
| Power Factor (Fraction) | 0.9 |
| Connection | Connection unit 2-pole |
| Cable | - |
| Number of products on MCB of 16 A type B | 16 |
| Suitable for random switching | Yes |
| Protection class IEC | Safety class II |
| Total harmonic distortion | 20 % |

## Controls and Dimming

| | |
|---|---|
| Dimmable | No |
| Driver/power unit/transformer | Power supply unit (On/Off) |
| Control interface | - |
| Constant light output | No |
| Maximum dim level | Not applicable |

## Mechanical and Housing

| | |
|---|---|
| Housing Material | Aluminum die cast |
| Reflector material | - |
| Optic material | Polymethyl methacrylate |
| Optical cover material | Polystyrene |
| Fixation material | - |
| Housing Color | White |
| Optical cover finish | Opal |
| Overall height | 28 mm |
| Overall diameter | 217 mm |
| Nominal Ceiling cut-out diameter | 205 mm |
| Ingress protection code | IP20/44 [Finger-protected; wire-protected, splash-proof] |
| Mech. impact protection code | IK02 [0.2 J standard] |
| Mounting | Recessed |
| Optical cover type | Opal |
| Net Weight (Piece) | 0.380 kg |

## 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 | ENEC mark |
| Photobiological risk | Photobiological risk group 0 @200mm to EN62778 |
| EU RoHS compliant | Yes |
| Performance ambient temperature Tq | 25 °C |
| 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. |
| Flickering value (PstLM) - Flickering value as per EN 61000-3-3 | 1 |
| Stroboscopic effect visibility measure (SVM) | 1.6 |
| Ambient temperature range | 0 to +35 °C |

## Initial Performance (IEC Compliant)

| | |
|---|---|
| Luminous flux tolerance | +/-10% |
| Initial chromaticity | (0.43657,0.40454) SDCM<3 |
| Power consumption tolerance | +/-10% |
| Standard Deviation of Colour Matching (McAdam ellipse) | SDCM≤3 |

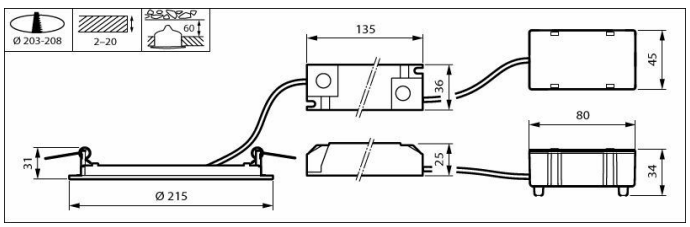
## Over Time Performance (IEC Compliant)

| | |
|---|---|
| Driver failure rate at 5000 h | 0.0015 % |
| Control gear failure rate at median useful life 50000 h | 5 % |
| Lumen maintenance (EN-IEC 62722-2-1) at median useful life* 50000 h | L70 |

## Sustainability Data

| | |
|---|---|
| Repair class | Repair Class D, this product is not designed to be repaired. |
| Embedded carbon (A1-A3) | 4.52 kg $CO_2$e |
| Product non-virgin material ratio | 13.5 % |
| Recyclable content ratio of the finished product | 60.3 % |
| GWP total B6 (kg CO2eq) Declared Unit | Please calculate using your local energy mix value: Power Declared Unit (kW) * Service life (hrs) Declared Unit * Energy mix (kg CO2eq / kwh) |
| GWP total B6 (kg CO2eq) Functional Unit | Please calculate using your local energy mix value: Power Declared Unit (kW) * 1000 (lm) /lumen output (lm) Declared Unit * 35000 (hrs) * Energy mix (kg CO2 eq / kwh) |
| Non-virgin material ratio of the packaging | Cardboard > 80% recycled |
| Packaging Recyclable content ratio | Cardboard recycling rate > 80% |
| Packaging Material | Cardboard |

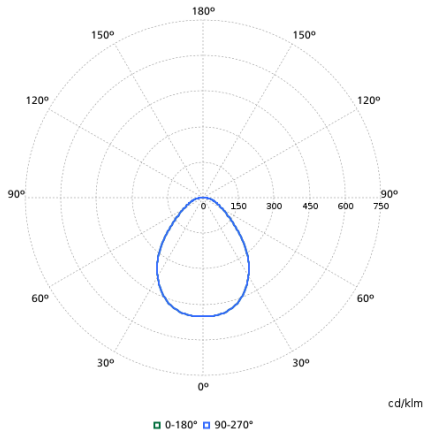
## Dimensional drawing




## Product Data

| | |
|---|---|
| Order product name | DN145B LED20S/830 PSU II WH |
| Full product name | DN145B LED20S/830 PSU II WH |
| Full product code | 871016333949899 |
| Order code | 911401806180 |
| Material Nr. (12NC) | 911401806180 |
| Numerator - Quantity Per Pack | 1 |
| EAN/UPC - Product/Case | 8710163339498 |
| Numerator - Packs per outer box | 10 |
| EAN/UPC - Case | 8710163339818 |

## Polar normal diagrams




## Related Documents

| Documents and certificates | Document Name | Download |
|---|---|---|
| Installation Instructions | Coreline-slim-downlight-Dn145B-INI-260716.pdf | Download |
| Environmental Product Declaration | EPD-Philips-CoreLine-SlimDownlight-DN145B-LED20S-830-PSU-II-WH-911401806180.pdf | Download |

| Photometry and lighting design | Document Name | Download |
|---|---|---|
| IES File | dn145b-led20s-830-psu-ii-wh-911401806180.ies | Download |
| LDT File | dn145b-led20s-830-psu-ii-wh-911401806180.ldt | Download |
| ROLF File | dn145b-led20s-830-psu-ii-wh-911401806180.rolfz | Download |
| ULD File | dn145b-led20s-830-psu-ii-wh-911401806180.uld | Download |
| Revit file | dn145b-led20s-830-psu-ii-wh-911401806180.zip | Download |

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