PHILIPS Lighting



Essential Surface

TCBRLS 46S/930 DIA OC WH401T102

Essential Surface, 3D printed, 34.5 W, D580 mm; H85 mm, 4416 lm, 3000 K, CRI>90, DALI, Interact Ready, UGR19

Philips Essential is a functional surface mount round luminaire with a wide range of color and textures, which can seamlessly blend into any decor, while meeting office lighting requirements. It can be connected to other systems to create a smart office lighting solution with integrated sensors to avoid a 'sensor acne' in your beautifully designed ceilings. This family is available in 3 sizes and can be mounted in 3 different ways. Philips Essential is made from recycled materials, 3D printed carbon neutral, making it a conscious choice for those looking to contribute to a circular economy. So, choose this lighting solution without compromising on style, performance, functionality, or sustainability.

Product data

| General Information | |
|------------------------------------|--------------------------|
| Number of gear units | 1 unit |
| Driver included | Yes |
| Value ladder | Specification |
| Warranty period | 5 years |
| Sustainability rating | Lighting for circularity |
| | |
| Light Technical | |
| Luminous Flux | 4,416 lm |
| Correlated Color Temperature (Nom) | 3000 K |
| Luminous Efficacy (rated) (Nom) | 128 lm/W |
| Color rendering index (CRI) | >90 |
| Beam angle of light source | 90 degree(s) |
| Light source color | 930 warm white |
| | |

| Optic type | Beam angle 90° |
|--|----------------------------|
| Luminaire light beam spread | 90° |
| Unified glare rating CEN | 19 |
| | |
| Operating and Electrical | |
| Input Voltage | 220/240 V |
| Line Frequency | 50 to 60 Hz |
| Inrush current | 20.4 A |
| Inrush time | 0.2 ms |
| Power Consumption | 34.5 W |
| Power Factor (Fraction) | 0.9 |
| Connection | 2 Push-in connector 5-pole |
| Cable | - |
| Number of products on MCB of 16 A type B | 24 |

Essential Surface

| Suitable for random switching | No |
|-------------------------------|------------------------------------|
| Protection class IEC | Safety class II |
| Feed-through wiring | Feed-through wiring 1-phase |
| Total harmonic distortion | 2 % |
| | |
| Controls and Dimming | |
| Dimmable | Yes |
| Driver/power unit/transformer | Dali dimming Intaract System ready |
| Control interface | DALI |
| Constant light output | No |
| DALI Standard | D4i™ DALI-2™ |
| Connectivity | Interact Ready |
| | |
| Mechanical and Housing | |
| Housing Material | Polycarbonate |
| Reflector material | - |
| Optic material | Polycarbonate |
| Optical cover material | Polystyrene |
| Fixation material | - |
| Housing Color | White |
| Optical cover finish | Micro-hexagonal optic |
| Overall height | 85 mm |
| Overall diameter | 580 mm |
| Ingress protection code | IP20 [Finger-protected] |
| Mech. impact protection code | IK04 [0.5 J standard plus] |
| Mounting | Surface |
| Net Weight (Piece) | 4.000 kg |
| | |
| Emergency Operation | |
| Central Emergency | No |

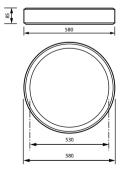
| Flammability mark | - |
|---|---------------------------------|
| CE mark | Yes |
| ENEC mark | ENEC mark |
| EU RoHS compliant | Yes |
| Performance ambient temperature Tq | 25 °C |
| Ambient temperature range | +10 to +35 °C |
| | |
| Initial Performance (IEC Compliant) | |
| Luminous flux tolerance | -10% / +10% |
| Initial chromaticity | (0.44, 0.40) SDCM < 3 |
| Power consumption tolerance | +/-10% |
| | |
| Over Time Performance (IEC Compliant) | |
| Control gear failure rate at median useful life | 10 % |
| 50000 h | |
| Lumen maintenance at median useful life* | L80 |
| 50000 h | |
| Lumen maintenance at median useful life* | L80 |
| 100000 h | |
| | |
| Product Data | |
| Order product name | TCBRLS 465/930 DIA OC WH401T102 |
| Full product name | TCBRLS 465/930 DIA OC WH401T102 |
| Full product code | 872016986384200 |
| Order code | 912500108723 |
| Material Nr. (12NC) | 912500108723 |
| Numerator - Quantity Per Pack | 1 |
| EAN/UPC - Product/Case | 8720169863842 |
| Numerator - Packs per outer box | 1 |
| EAN/UPC - Case | 8720169863842 |

Approval and Application

Glow-wire test

Temperature 650 °C, duration 30 s

Dimensional drawing



Essential Surface



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