Essential Surface

TCBRMS 19S/940 DIA OC WH401T102

Essential Surface, 3D printed, 15.4 W, D390 mm; H85 mm, 1890 lm, 4000 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	1,890 lm
Correlated Color Temperature (Nom)	4000 K
Luminous Efficacy (rated) (Nom)	123 lm/W
Color rendering index (CRI)	>90
Beam angle of light source	90 degree(s)
Light source color	940 neutral white

Optic type	Beam angle 90°
Luminaire light beam spread	90°
Unified glare rating CEN	19

Operating and Electrical

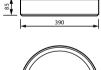|	
Input Voltage	220/240 V
Line Frequency	50 to 60 Hz
Inrush current	20.4 A
Inrush time	0.2 ms
Power Consumption	15.4 W
Power Factor (Fraction)	0.9
Connection	2 Push-in connector 5-pole
Cable	–
Number of products on MCB of 16 A type B	24

Essential Surface

Suitable for random switching	No		**Flammability mark**	–
Protection class IEC	Safety class II		**CE mark**	Yes
Feed-through wiring	Feed-through wiring 1-phase		**ENEC mark**	ENEC mark
Total harmonic distortion	2 %		**EU RoHS compliant**	Yes
			Performance ambient temperature Tq	25 °C
			Ambient temperature range	+10 to +35 °C

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

Initial Performance (IEC Compliant)

Luminous flux tolerance	–10% / +10%
Initial chromaticity	(0.38, 0.38) SDCM < 3
Power consumption tolerance	+/-10%

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	390 mm
Ingress protection code	IP20 [Finger-protected]
Mech. impact protection code	IK04 [0.5 J standard plus]
Mounting	Surface
Net Weight (Piece)	2.200 kg

Over Time Performance (IEC Compliant)

Control gear failure rate at median useful life 50000 h	10 %
Lumen maintenance at median useful life* 50000 h	L80
Lumen maintenance at median useful life* 100000 h	L80

Emergency Operation

Central Emergency	No

Product Data

Order product name	TCBRMS 19S/940 DIA OC WH401T102
Full product name	TCBRMS 19S/940 DIA OC WH401T102
Full product code	872016986389700
Order code	912500108728
Material Nr. (12NC)	912500108728
Numerator – Quantity Per Pack	1
EAN/UPC – Product/Case	8720169863897
Numerator – Packs per outer box	1
EAN/UPC – Case	8720169863897

Approval and Application

Glow-wire test	Temperature 650 °C, duration 30 s

Dimensional drawing

Essential Surface

www.lighting.philips.com

2025, January 20 – data subject to change