PHILIPS

TCBRLR 46S/940 DIA OC WH401

912500108786



Essential recessed, 3D printed, 34.5 W, D590 mm, 4600 lm, 4000 K, CRI>90, DALI, Interact Ready, UGR19, TP(b)

D590 mm, Polycarbonate, White, Dali dimming Interact System ready, 4600 lm, 34.5 W, 133 lm/W, 4000 K, (0.38, 0.38) SDCM < 3, CRI>90, UGR19, Beam angle 90°, Micro-hexagonal optic, Polystyrene, IP20 | Finger-protected, IK04 | 0.5 J standard plus, Safety class II, 2 Push-in connector 5-pole, Feed-through wiring 1-phase, TP(b) diffuser flammability class

General Information

Number of gear units	1 unit
Driver included	Yes
Sustainability rating	Unclassified
Service tag	Yes
Value ladder	Specification
Warranty period	5 years

Light Technical

Luminous Flux	4,600 lm
Correlated Color Temperature (Nom)	4000 K
Luminous Efficacy (rated) (Nom)	133 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
Indirect glare reduction measure for Display Screen Equipment (EN 12464-2021)	L65≤3000 cd/m²

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
Suitable for random switching	Yes
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 Interact System ready
Control interface	DALI
Constant light output	No
DALI Standard	DALI-2™ with extended data: Parts 251/252/253
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	82 mm
Overall diameter	590 mm
Ingress protection code	IP20 [Finger-protected]
Mech. impact protection code	IK04 [0.5 J standard plus]
Mounting	Recessed
Net Weight (Piece)	4.000 kg

Emergency Operation

Central Emergency	No

Approval and Application

Glow-wire test	Temperature 650 °C, duration 30 s
Flammability mark	-
CE mark	Yes
ENEC mark	ENEC mark
EU RoHS compliant	Yes
Diffuser Flammability Class	TP(b) diffuser flammability class
Performance ambient temperature Tq	25 °C
Ambient temperature range	+10 to +35 °C

Initial Performance (IEC Compliant)

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

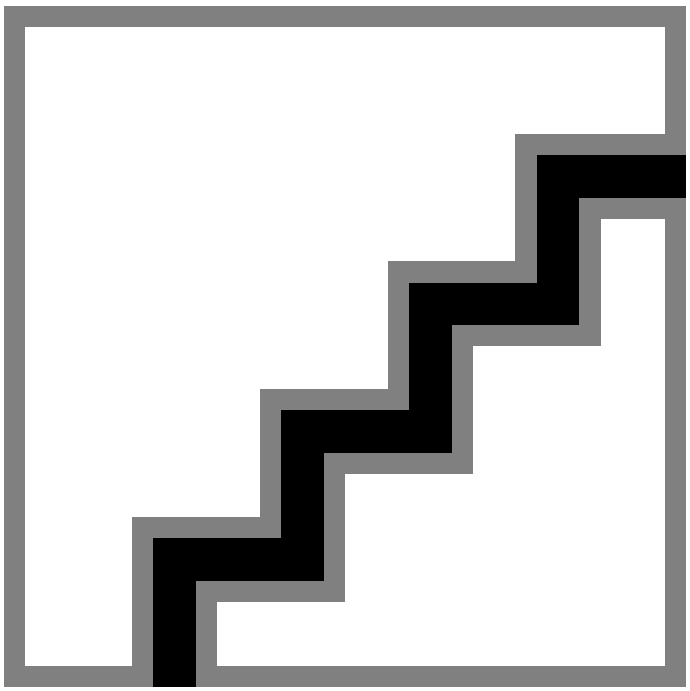
Over Time Performance (IEC Compliant)

Control gear failure rate at median useful life 50000 h	10 %
Lumen maintenance (EN-IEC 62722-2-1) at median useful life* 50000 h	L80
Lumen maintenance (EN-IEC 62722-2-1) at median useful life* 100000 h	L80

Sustainability Data

Repair class	Repair Class C, the driver of this luminaire can be replaced by a service technician. Special care is required during disassembly and reassembly, and specific tools may be required. Parts and documentation are available for a period of time.
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	TCBRLR 46S/940 DIA OC WH401
Full product name	TCBRLR 46S/940 DIA OC WH401
Full product code	872016986435100
Order code	912500108786
Material Nr. (12NC)	912500108786
Numerator - Quantity Per Pack	1
EAN/UPC - Product/Case	8720169864351
Numerator - Packs per outer box	1
EAN/UPC - Case	8720169864351
Product family code	TCBRRM [Essential Recessed Mount]

Related Documents

Documents and certificates	Document Name	Download
Installation Instructions	4422-948-62075-essential-recessed-mount-large-br-series-INI.pdf	Download
Tender text	Tender_Text_912500108786_en_AA.txt	Download

Photometry and lighting design	Document Name	Download
IES File	EssentialRecessed-TCBR-LR46S940DIAOC.ies	Download

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