PHILIPS

EM251B REC 4S OA/CO NM3 ELD

912401483614



Emergency Downlight DALI, Recessed, 4 W, 3.6 W, 4 W, 620x42mm; H45, 400 lm, 5000 K, IP20, ELD3h, Non-maintained

Recessed, 620x42mm; H45, Polycarbonate, White, Signal white (RAL9003), Recessed, 400 lm, 4 W, 110 lm/W, 5000 K, (0.346, 0.356) SDCM<5, CRI70, Clear, UV stabilized Polycarbonate cover, IP20 | Finger-protected, IK04 | 0.5 J standard plus, Safety class II, Push-in connector 5-pole, TP(a) diffuser flammability class, Emergency lighting 3 hours duration with DALI interface

Warnings and Safety

- The battery is designed with a rated average battery design life of 50,000 hours in standby mode. The battery is supported with a standard 5year warranty; conditional of the product being maintained and operated in accordance with the manufacturer's guidelines and tested in accordance with EN50272

General Information

Number of gear units	1 unit
Driver included	Yes
Sustainability rating	Unclassified
Service tag	No
Value ladder	Performance
Warranty period	5 years

Light Technical

Luminous Flux	400 lm
Saturated Red (R9)	<50
Correlated Color Temperature (Nom)	5000 K
Luminous Efficacy (rated) (Nom)	110 lm/W
Color rendering index (CRI)	≥70
Light source color	750 neutral white
Optic type	-
Luminaire light beam spread	235°
Unified glare rating CEN	Not applicable

Operating and Electrical

Input Voltage	220-240 V
Line Frequency	50 Hz
Inrush current	12.5 A
Inrush time	0.166 ms
Power Consumption	4 W
Power Factor (Fraction)	0.38
Connection	Push-in connector 5-pole
Cable	-
Number of products on MCB of 16 A type B	62
Suitable for random switching	Not applicable
Protection class IEC	Safety class II
Feed-through wiring	-

Wiring

Connector Type	Push

Controls and Dimming

Dimmable	No
Driver/power unit/transformer	-
Control interface	DALI
Constant light output	No
DALI Standard	DALI-2™
Maximum dim level	Not applicable
Photocell	-

Mechanical and Housing

Housing Material	Polycarbonate
Reflector material	-
Optic material	Polycarbonate
Optical cover material	UV stabilized Polycarbonate cover
Fixation material	-
Housing Color	White
Optical cover finish	Clear
Overall length	620 mm
Overall width	42 mm
Overall height	45 mm
Overall diameter	80 mm
Dimensions (Height x Width x Depth)	45 x 42 x 620 mm
Ingress protection code	IP20 [Finger-protected]
Mech. impact protection code	IK04 [0.5 J standard plus]
Explosion hazard class	-
Mounting	Recessed
Net Weight (Piece)	0.440 kg

Emergency Operation

Emergency flux	400 lm
Power consumption during Central DC emergency mode	3.6 W
Rated duration of the emergency lighting (when fully charged)	3 hour(s)
Additional max. power consumption when emergency battery is charging	4 W
Central Emergency	No
Type of emergency lighting battery	Lithium
Emergency lighting	Emergency lighting 3 hours duration with DALI interface
Emergency function testing method	Programmed automatic self testing via DALI or wireless lighting control system
Emergency lighting operation mode	Non-maintained

Approval and Application

Glow-wire test	Temperature 850 °C, duration 30 s
Flammability mark	-
CE mark	Yes
ENEC mark	-
Photobiological risk	Photobiological risk group 0 @ 200mm to EN62471
EU RoHS compliant	Yes
Diffuser Flammability Class	TP(a) diffuser flammability class
Performance ambient temperature Tq	25 °C
Flickering value (PstLM) - Flickering value as per EN 61000-3-3	1
Stroboscopic effect visibility measure (SVM)	0.4
Ambient temperature range	0 to +55 °C

Initial Performance (IEC Compliant)

Luminous flux tolerance	+/-5%
Initial chromaticity	(0.346, 0.356) SDCM<5
Power consumption tolerance	+/-10%

Over Time Performance (IEC Compliant)

Control gear failure rate at median useful life 35000 h	5 %
Control gear failure rate at median useful life 50000 h	10 %
Control gear failure rate at median useful life 75000 h	25 %
Control gear failure rate at median useful life 100000 h	50 %
Lumen maintenance (EN-IEC 62722-2-1) at median useful life* 35000 h	L95
Lumen maintenance (EN-IEC 62722-2-1) at median useful life* 50000 h	L95
Lumen maintenance (EN-IEC 62722-2-1) at median useful life* 75000 h	L90
Lumen maintenance (EN-IEC 62722-2-1) at median useful life* 100000 h	L90

Sustainability Data

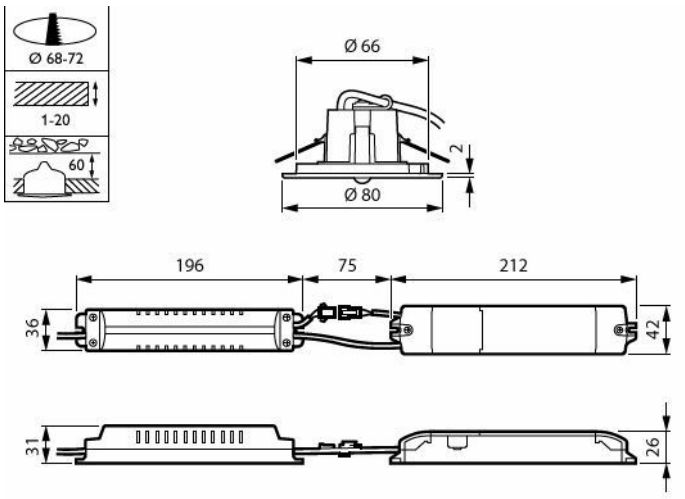
Repair class	Repair Class C, the driver of this luminaire can be replaced by a service technician. Special care is required during disassembly and reassembly, and specific tools may be required. Parts and documentation are available for a period of time.
Embedded carbon (A1-A3)	7.49 kg CO_2e
Product non-virgin material ratio	9.74 %
Recyclable content ratio of the finished product	31 %
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

Product Data

Order product name	EM251B REC 4S OA/CO NM3 ELD
Full product name	EM251B REC 4S OA/CO NM3 ELD
Full product code	871951488035100
Order code	912401483614

Material Nr. (12NC)	912401483614
Numerator - Quantity Per Pack	1
EAN/UPC - Product/Case	8719514880351
Numerator - Packs per outer box	20
EAN/UPC - Case	8719514880177

Dimensional drawing



Related Documents

Documents and certificates	Document Name	Download
Installation Instructions	Emergency-Downlight-DALI-EM251B-INI.pdf	Download
Tender text	Tender_Text_912401483614_en_AA.txt	Download

Photometry and lighting design	Document Name	Download
IES File	EM251B-REC-4S-CO-OA-NM3-ELD-912401483614.zip	Download

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