PHILIPS

BY120P G6 LED150/ UE840 PSU WB

911401554245



CoreLine Highbay gen6, UltraEfficient, 78 W, 15000 lm, 4000 K, Beam angle 90°, IP66, IK08

Aluminum die cast, Gray, Basalt gray (RAL7012), Single layer powder coating, Bracket, Surface, Suspended, Power supply unit (On/Off), 15000 lm, 78 W, 192 lm/W, 4000 K, (0.3818,0.3797) SDCM < 5, Beam angle 90°, IP66 | Dust penetration-protected, jet-proof, IK08 | 5 J vandal-protected, Safety class I, Screw connector

General Information

Number of gear units	1 unit
Driver included	Yes
Service tag	Yes
Value ladder	Performance
Warranty period	5 years

Light Technical

Luminous Flux	15,000 lm
Saturated Red (R9)	<50
Correlated Color Temperature (Nom)	4000 K
Luminous Efficacy (rated) (Nom)	192 lm/W
Color rendering index (CRI)	>80
Beam angle of light source	120 degree(s)
Light source color	840 neutral white
Optic type	Beam angle 90°
Luminaire light beam spread	90°
Unified glare rating CEN	25

Operating and Electrical

Input Voltage	200 to 240 V
Line Frequency	50 to 60 Hz
Average CLO power consumption	- W
Inrush current	75 A
Inrush time	0.108 ms
Power Consumption	78 W
Power Factor (Fraction)	0.95
Connection	Screw connector
Cable	Cable 0.3 m with connector 3-pole
Number of products on MCB of 16 A type B	16
Suitable for random switching	Yes
Protection class IEC	Safety class I
Feed-through wiring	-
Total harmonic distortion	10 %

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
Embedded control	-
Photocell	-

Mechanical and Housing

Housing Material	Aluminum die cast
Reflector material	-
Optic material	Polycarbonate
Optical cover material	-
Fixation material	Aluminum
Housing Color	Gray
Optical cover finish	-
Reflector Finish	-
Overall height	95 mm
Overall diameter	350 mm
Optical finish	Clear
Ingress protection code	IP66 [Dust penetration-protected, jet-proof]
Mech. impact protection code	IK08 [5 J vandal-protected]
Explosion hazard class	-
Mounting	Bracket
Net Weight (Piece)	2.590 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
Photobiological risk	Photobiological risk group 0 @ 200mm to EN62471
Photobiological risk specification	4.9 m
EU RoHS compliant	Yes
Performance ambient temperature Tq	35 °C
Flickering value (PstLM) - Flickering value as per EN 61000-3-3	0.5
Stroboscopic effect visibility measure (SVM)	0.4
Ambient temperature range	-40 to +50 °C

Initial Performance (IEC Compliant)

Luminous flux tolerance	+/-10%
Initial chromaticity	(0.3818,0.3797) SDCM < 5
Power consumption tolerance	+/-10%
Standard Deviation of Colour Matching (McAdam ellipse)	SDCM≤5

Over Time Performance (IEC Compliant)

Control gear failure rate at median useful life 35000 h	3.5 %
Control gear failure rate at median useful life 50000 h	5 %
Control gear failure rate at median useful life 75000 h	7.5 %
Control gear failure rate at median useful life 100000 h	10 %
Lumen maintenance (EN-IEC 62722-2-1) at median useful life* 50000 h	L85
Lumen maintenance (EN-IEC 62722-2-1) at median useful life* 100000 h	L70

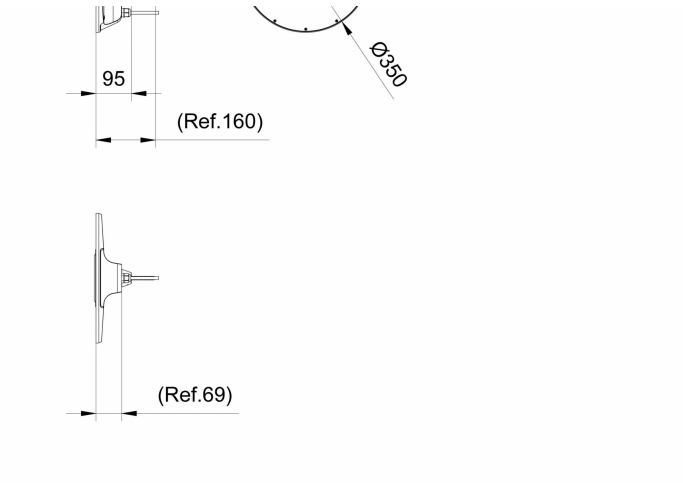
Sustainability Data

Sustainability rating	Unclassified
Repair class	Repair Class D, this product is not designed to be repaired.
Embedded carbon (A1-A3)	28 kg CO_2e
Product non-virgin material ratio	45.2 %
Recyclable content ratio of the finished product	49.7 %
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

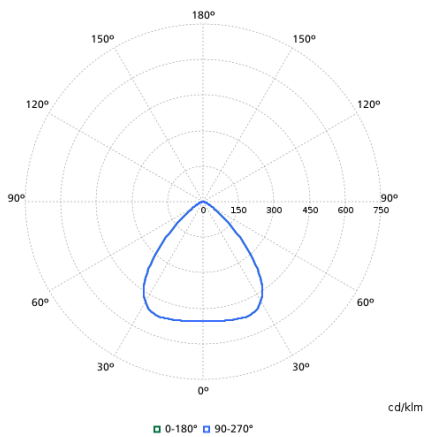
Product Data

Order product name	BY120P G6 LED150/UE840 PSU WB
Full product name	BY120P G6 LED150/UE840 PSU WB
Full product code	872110330638800
Order code	911401554245
Material Nr. (12NC)	911401554245
Numerator - Quantity Per Pack	1
EAN/UPC - Product/Case	8721103306388
Numerator - Packs per outer box	1
EAN/UPC - Case	8721103306388

Dimensional drawing



Polar normal diagrams



Compatible Accesories

Accessory Image	Accessory Code	Accessory Name	Website
	911401558745	BY121Z G6 BR L300	Product Website

Related Documents

Documents and certificates	Document Name	Download
Installation Instructions	MI-Coreline-Highbay-G6-PSD-PSU.pdf	Download
Environmental Product Declaration	EPD-PHILIPS-Philips-CoreLine-Highbay-Gen6-BY120P-G6-Ref-911401553645.pdf	Download

Photometry and lighting design	Document Name	Download
IES File	by120p-g6-led150-ue840-psu-wb-911401554245.ies	Download
LDT File	by120p-g6-led150-ue840-psu-wb-911401554245.ldt	Download
ROLF File	by120p-g6-led150-ue840-psu-wb-911401554245.rolfz	Download
ULD File	by120p-g6-led150-ue840-psu-wb-911401554245.uld	Download
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