



CoreLine Highbay gen6

BY120P G6 LED100/840 PSD WB

CoreLine Highbay gen6, UltraEfficient, 55 W, 10000 lm, 4000 K, DALI, Beam angle 90°, IP66, IK08

Aluminium die cast, Grey, Basalt grey (RAL7012), Single layer powder coating, Bracket, Surface, Suspended, Power supply unit with DALI interface, 10000 lm, 55 W, 181 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

Product data

General Information	
Number of gear units	Unit
Driver included	Yes
Service Tag	Yes
Value ladder	Performance
Warranty period	5 years
Light Technical	
Luminous Flux	10,000 lm
Saturated Red (R9)	<50
Correlated Colour Temperature (Nom)	4000 K
Luminous efficacy (rated) (nom.)	181 lm/W
Colour rendering index (CRI)	>80
Beam angle of light source	120 degree(s)
Light source colour	840 neutral white
Optic type	Beam angle 90°

Luminaire light beam spread	90°
Unified Glare Rating (CEN)	25
Operating and Electrical	
Input Voltage	220 to 240 V
Line Frequency	50 to 60 Hz
Average CLO power consumption	- W
Inrush current	46 A
Inrush time	0.25 ms
Power Consumption	55 W
Power Factor (Fraction)	0.95
Connection	Screw connector
Cable	Cable 0.3 m with connector 2-pole Cable 0.3 m with connector 3-pole
Number of products on MCB (16 A type B)	11
Suitable for random switching	Yes

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Protection class IEC	Safety class I
Feed-through wiring	-
Total harmonic distortion	10 %

Controls and Dimming

Dimmable	Yes
Driver/power unit/transformer	Power supply unit with DALI interface
Control interface	DALI
Constant light output	No
DALI standard	DALI-2™
Maximum dim level	20%
Embedded control	-
Photocell	-

Mechanical and Housing

Housing material	Aluminium die cast
Reflector material	-
Optic material	Polycarbonate
Optical cover/lens material	-
Fixation material	Aluminium
Housing Colour	Grey
Optical cover/lens finish	-
Reflector finish	-
Overall height	95 mm
Overall diameter	350 mm
Ingress protection code	IP66 [Dust penetration-protected, jet-proof]
Mech. impact protection code	IK08 [5 J vandal-protected]
Explosion hazard class	-
Mounting	Bracket Surface Suspended
Net Weight (Piece)	3.390 kg

Emergency Operation

Power consumption during Central DC emergency mode	8.25 W
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)	0.5
Stroboscopic effect	0.4
Ambient temperature range	-40 to +50 °C

Initial Performance (IEC Compliant)

Luminous flux tolerance	+/-10%
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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 35,000 h	3.5 %
Control gear failure rate at median useful life 50,000 h	5 %
Control gear failure rate at median useful life 50,000 h	7.5 %
Control gear failure rate at median useful life 100,000 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

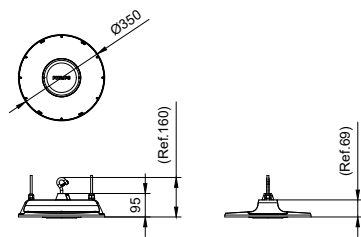
Sustainability rating	Unclassified
Repair class	Repair Class D, this product is not designed to be repaired.
Embedded carbon (A1-A3)	28 kg CO ₂ e
Product non-virgin material ratio	45.2 %
Recyclable the content ratio of the finished product	49.7 %
GWP total B6 (kg CO2eq) Declared Unit	Please calculate 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 DECLARED UNIT (lm) * 35000 (hrs) * ENERGY MIX (kg CO2 eq / kwh)

Product Data

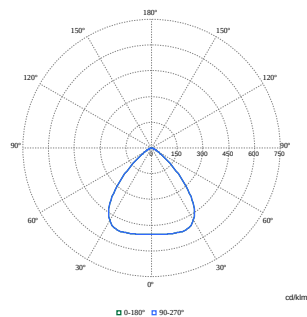
Order product name	BY120P G6 LED100/840 PSD WB
Full product name	BY120P G6 LED100/840 PSD WB
Full EOC	872110330650000
Order code	911401553745
Material no. (12 NC)	911401553745
Numerator – quantity per pack	1
EAN/UPC – Product/Case	8721103306500
Numerator – packs per outer box	1
EAN/UPC – Case	8721103306500

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Dimensional drawing



Photometric data



Polar Normal (separate) - 911401553745

