



CoreLine Highbay Gen6

BY120P G6 LED100/UE840 PSU WB

CoreLine Highbay Gen6, UltraEfficient, 51 W, 10000 lm, 4000 K, CRI≥80, Beam angle 90°, IP66, IK08

Philips CoreLine Highbay Gen6 delivers on the CoreLine promise of innovative, easy-to-use, and high-quality lighting. With a redefined and appealing elegance, CoreLine Highbay Gen6 is a reliable, highly efficient luminaire with a very long lifetime. It delivers flicker-free lighting and great energy savings, and requires less maintenance than comparable luminaires. CoreLine Highbay Gen6 is also very easy to handle. The luminaire can be installed on your existing grid. Electrical connections are straightforward, with an external IP65 connector that does not require you to open the luminaire. With a choice of narrow and wide beam angles, you can adjust your lighting plan to suit your exact needs. The CoreLine Highbay Gen6 range includes Interact Ready luminaires. With integrated wireless communications and integrated movement and daylight sensors, CoreLine Highbay Gen6 is ready for use with any Interact connected lighting system.

Product data

General Information		Light Technical	
Number of gear units	1 unit	Luminous Flux	10,000 lm
Driver included	Yes	Saturated Red (R9)	<50
Value ladder	Performance	Correlated Color Temperature (Nom)	4000 K
Serviceability class	Class C, luminaire without serviceable parts, not serviceable	Luminous Efficacy (rated) (Nom)	196 lm/W
Warranty period	5 years	Color rendering index (CRI)	≥80
Sustainability rating	-	Beam angle of light source	120 degree(s)
		Light source color	840 neutral white
		Optic type	Beam angle 90°

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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	51 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	Fixed
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
Impact resistance for specific applications	Ball-proof/ball-impact resistant lighting
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 Surface Suspended
Net Weight (Piece)	2.590 kg

Emergency Operation

Central Emergency	No
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Emergency lighting	-
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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* 35000 h	L85
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* 75000 h	L80
Lumen maintenance (EN-IEC 62722-2-1) at median useful life* 100000 h	L70

Product Data

Order product name	BY120P G6 LED100/UE840 PSU WB
Full product name	BY120P G6 LED100/UE840 PSU WB
Full product code	872110330636400
Order code	911401553645
Material Nr. (12NC)	911401553645
Numerator - Quantity Per Pack	1
EAN/UPC - Product/Case	8721103306364
Numerator - Packs per outer box	1
EAN/UPC - Case	8721103306364

Dimensional drawing

