CoreLine Highbay Gen6

BY122P G6 LED350/UE840 PSU NB

CoreLine Highbay Gen6, UltraEfficient, 184 W, 35000 lm, 4000 K, Beam angle 55°, 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	
Number of gear units	1 unit
Driver included	Yes
Value ladder	Performance
Serviceability class	Class C, luminaire without serviceable parts, not serviceable
Warranty period	5 years
Sustainability rating	–

Light Technical	
Luminous Flux	35,000 lm
Saturated Red (R9)	<50
Correlated Color Temperature (Nom)	4000 K
Luminous Efficacy (rated) (Nom)	190 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 55°

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Luminaire light beam spread	55°
Unified glare rating CEN	22

Operating and Electrical

Input Voltage	200 to 240 V
Line Frequency	50 to 60 Hz
Average CLO power consumption	– W
Inrush current	107 A
Inrush time	0.144 ms
Power Consumption	184 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	8
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	109 mm
Overall diameter	480 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 Surface Suspended
Net Weight (Piece)	4.290 kg

Emergency Operation

Central Emergency	No
Emergency lighting	–

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 1 @ 200mm to EN62471
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	L85
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	BY122P G6 LED350/UE840 PSU NB
Full product name	BY122P G6 LED350/UE840 PSU NB
Full product code	872110330647000
Order code	30647000
Material Nr. (12NC)	911401556345
Numerator – Quantity Per Pack	1
EAN/UPC – Product/Case	8721103306470
Numerator – Packs per outer box	1
EAN/UPC – Case	8721103306470

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Dimensional drawing

Ø480

(Ref.174)

109

(Ref.83)

www.lighting.philips.com

2025, August 4 – data subject to change