



CoreLine Highbay Gen6

BY121P G6 LED280/840 PSD NB

CoreLine Highbay Gen6, UltraEfficient, 153 W, 28000 lm, 4000 K, DALI, 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	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	28,000 lm
Saturated Red (R9)	<50
Correlated Colour Temperature (Nom)	4000 K
Luminous efficacy (rated) (nom.)	183 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 55°

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Luminaire light beam spread	55°
Unified Glare Rating (CEN)	22

Operating and Electrical

Input Voltage	220 to 240 V
Line Frequency	50 to 60 Hz
Average CLO power consumption	- W
Inrush current	106 A
Inrush time	0.3 ms
Power Consumption	153 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)	8
Suitable for random switching	Yes
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	430 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)	4.390 kg

Emergency Operation

Power consumption during Central DC emergency mode	22.95 W
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Central Emergency	No
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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)	0.5
Stroboscopic effect	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)

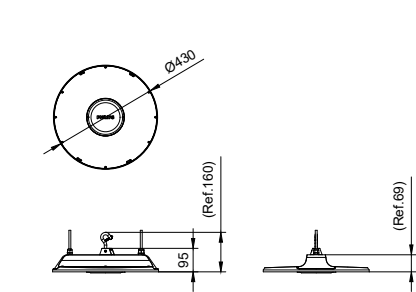
Control gear failure rate at median useful life 35,000 h	3.5 %
Control gear failure rate at median useful life 50,000 h	5 %
Control gear failure rate at median useful life 50,000 h	7.5 %
Control gear failure rate at median useful life 100,000 h	10 %
Lumen maintenance (EN-IEC 62722-2-1) at median useful life* 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

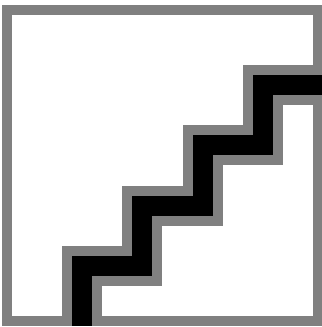
Order product name	BY121P G6 LED280/840 PSD NB
Full product name	BY121P G6 LED280/840 PSD NB
Full EOC	872110330674600
Order code	30674600
Material no. (12 NC)	911401555745
Numerator – quantity per pack	1
EAN/UPC – Product/Case	8721103306746
Numerator – packs per outer box	1
EAN/UPC – Case	8721103306746

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Dimensional drawing



Photometric data



Polar Normal (separate) - 911401555745

