CoreLine Highbay Gen6

BY122P G6 LED350/840 PSD NB

CoreLine Highbay Gen6, UltraEfficient, 196 W, 35000 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	2 units
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)	178 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°	Central Emergency	No
Unified glare rating CEN	22		

Operating and Electrical

Approval and Application

Input Voltage	220 to 240 V	Glow-wire test	Temperature 650 ℃, duration 30 s
Line Frequency	50 to 60 Hz	Flammability mark	–
Average CLO power consumption	– W	CE mark	Yes
Inrush current	106 A	ENEC mark	ENEC mark
Inrush time	0.3 ms	Photobiological risk	Photobiological risk group 1 @
Power Consumption	196 W		200mm to EN62471
Power Factor (Fraction)	0.95	EU RoHS compliant	Yes
Connection	Screw connector	Performance ambient temperature Tq	35 ℃
Cable	Cable 0.3 m with connector 2-pole	Flickering value (PstLM) – Flickering value as per	0.5
	Cable 0.3 m with connector 3-pole	EN 61000-3-3	
Number of products on MCB of 16 A type B	4	Stroboscopic effect visibility measure (SVM)	0.4
Suitable for random switching	Yes	Ambient temperature range	–40 to +50 ℃
Protection class IEC	Safety class I		
Feed-through wiring	–		
Total harmonic distortion	10 %		

Initial Performance (IEC Compliant)

		Luminous flux tolerance	+/-10%

Controls and Dimming

		Initial chromaticity	(0.3818,0.3797) SDCM < 5
Dimmable	Yes	Power consumption tolerance	+/-10%
Driver/power unit/transformer	Power supply unit with DALI interface	Standard Deviation of Colour Matching (McAdam ellipse)	SDCM≤5
Control interface	DALI		
Constant light output	No		
DALI Standard	DALI-2™		
Maximum dim level	20%		
Embedded control	–		
Photocell	–		

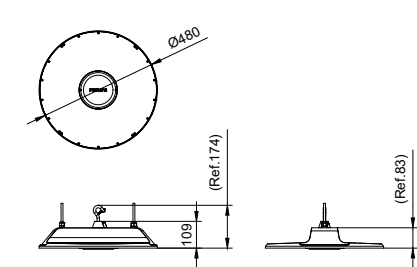## Over Time Performance (IEC Compliant)

		Control gear failure rate at median useful life 35000 h	3.5 %
		Control gear failure rate at median useful life 50000 h	5 %

Mechanical and Housing

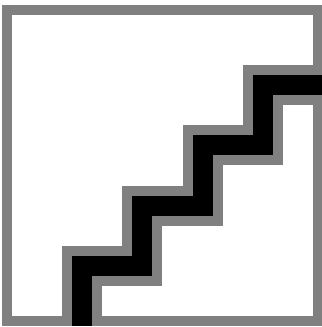|			
Housing Material	Aluminum die cast	Control gear failure rate at median useful life 75000 h	7.5 %
Reflector material	–		
Optic material	Polycarbonate	Control gear failure rate at median useful life 100000 h	10 %
Optical cover material	–		
Fixation material	Aluminum	Lumen maintenance (EN-IEC 62722-2-1) at median useful life* 35000 h	L85
Housing Color	Gray		
Optical cover finish	–	Lumen maintenance (EN-IEC 62722-2-1) at median useful life* 50000 h	L85
Reflector Finish	–		
Overall height	109 mm	Lumen maintenance (EN-IEC 62722-2-1) at median useful life* 75000 h	L80
Overall diameter	480 mm		
Optical finish	Clear	Lumen maintenance (EN-IEC 62722-2-1) at median useful life* 100000 h	L70
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)	6.390 kg		

Product Data

Order product name	BY122P G6 LED350/840 PSD NB
Full product name	BY122P G6 LED350/840 PSD NB
Full product code	872110330659300
Order code	911401556445
Material Nr. (12NC)	911401556445
Numerator – Quantity Per Pack	1
EAN/UPC – Product/Case	8721103306593
Numerator – Packs per outer box	1
EAN/UPC – Case	8721103306593

Emergency Operation

Power consumption during Central DC emergency mode	29.4 W

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Dimensional drawing

Ø480
(Ref.174)
109
(Ref.83)

Photometric data