



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	-

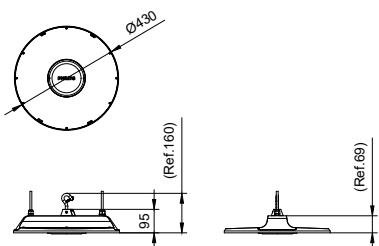
Light Technical	
Luminous Flux	28,000 lm
Saturated Red (R9)	<50
Correlated Colour Temperature (Nom)	4000 K
Luminous efficacy (rated) (nom.)	183 lm/W
Colour rendering index (CRI)	≥80
Beam angle of light source	120 degree(s)
Light source colour	840 neutral white
Optic type	Beam angle 55°

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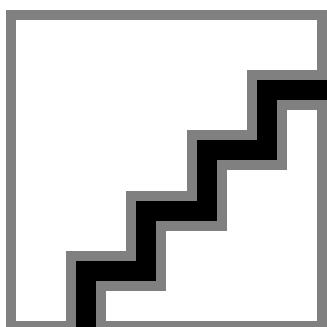
Luminaire light beam spread	55°	Central Emergency	No
Unified Glare Rating (CEN)	22		
Operating and Electrical			
Input Voltage	220 to 240 V	Glow-wire test	Temperature 650 °C, duration 30 s
Line Frequency	50 to 60 Hz	Flammability mark	-
Average CLO power consumption	- W	CE mark	Yes
Inrush current	106 A	ENEC mark	ENEC mark
Inrush time	0.3 ms	Photobiological risk	Photobiological risk group 0 @ 200mm to EN62471
Power Consumption	153 W	Photobiological risk specification	4.9 m
Power Factor (Fraction)	0.95	EU RoHS compliant	Yes
Connection	Screw connector	Performance ambient temperature Tq	35 °C
Cable	Cable 0.3 m with connector 2-pole	Flickering value (PstLM)	0.5
	Cable 0.3 m with connector 3-pole	Stroboscopic effect	0.4
Number of products on MCB (16 A type B)	8	Ambient temperature range	-40 to +50 °C
Suitable for random switching	Yes		
Protection class IEC	Safety class I	Initial Performance (IEC Compliant)	
Feed-through wiring	-	Luminous flux tolerance	+/-10%
Total harmonic distortion	10 %	Initial chromaticity	(0.3818, 0.3797) SDCM < 5
Controls and Dimming			
Dimmable	Yes	Power consumption tolerance	+/-10%
Driver/power unit/transformer	Power supply unit with DALI interface	Standard Deviation of Colour Matching	SDCM≤5
Control interface	DALI	(McAdam ellipse)	
Constant light output	No		
DALI standard	DALI-2™	Over Time Performance (IEC Compliant)	
Maximum dim level	20%	Control gear failure rate at median useful life	3.5 %
Embedded control	-	35,000 h	
Photocell	-	Control gear failure rate at median useful life	5 %
Mechanical and Housing		50,000 h	
Housing material	Aluminium die cast	Control gear failure rate at median useful life	7.5 %
Reflector material	-	50,000 h	
Optic material	Polycarbonate	Control gear failure rate at median useful life	10 %
Optical cover/lens material	-	100,000 h	
Fixation material	Aluminium	Lumen maintenance (EN-IEC 62722-2-1) at median useful life* 35000 h	L85
Housing Colour	Grey	Lumen maintenance (EN-IEC 62722-2-1) at median useful life* 50000 h	L85
Optical cover/lens finish	-	Lumen maintenance (EN-IEC 62722-2-1) at median useful life* 75000 h	L80
Reflector finish	-	Lumen maintenance (EN-IEC 62722-2-1) at median useful life* 100000 h	L70
Overall height	95 mm		
Overall diameter	430 mm		
Ingress protection code	IP66 [Dust penetration-protected, jet-proof]	Product Data	
Mech. impact protection code	IK08 [5 J vandal-protected]	Order product name	BY121P G6 LED280/840 PSD NB
Explosion hazard class	-	Full product name	BY121P G6 LED280/840 PSD NB
Mounting	Bracket Surface Suspended	Full EOC	872110330674600
Net Weight (Piece)	4.390 kg	Order code	30674600
Emergency Operation			
Power consumption during Central DC emergency mode	22.95 W	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

