

Lighting

PHILIPS

CoreLine Highbay Gen5

BY121P G5 LED200S/840 PSD WB

CoreLine Highbay Gen5, 134 W, 20000 lm, 4000 K, DALI, Wide beam, IP65, IK08

CoreLine Highbay Gen5 delivers on the CoreLine promise of innovative, easy-to-use and high-quality luminaires. A reliable, highly-efficient luminaire with a very longlifetime, it delivers great energy savings and requires less maintenance. At the same time, CoreLine Highbay is very easy to handle. The luminaire can be installed on your existing grid and the electrical connection is a straightforward task, with no need to open the luminaire and an external IP65 connector. With a choice of two beam angles: narrow and wide beam, you can adjust your lighting plan to suit your exact needs. This range also includes Interact Ready luminaires with integrated wireless communications and integrated movement and daylight sensors. So CoreLine Highbay Gen5 is ready to be used with any Interact connected lighting system.

Product data

No	
1 unit	
Yes	
Yes	
LED	
Performance	
5 years	
-	
	1 unit Yes Yes LED Performance

Light Technical	
Luminous Flux	20,000 lm
Saturated Red (R9)	<50
Correlated Color Temperature (Nom)	4000 K
Luminous Efficacy (rated) (Nom)	149 lm/W
Color rendering index (CRI)	>80
Light source color	840 neutral white
Optic type	Wide beam
Luminaire light beam spread	85° x 85°

CoreLine Highbay Gen5

Dimmable

Control interface

Driver/power unit/transformer

Unified glare rating CEN	25
Operating and Electrical	
Input Voltage	220 to 240 V
Line Frequency	50 or 60 Hz
Inrush current	53 A
Inrush time	0.3 ms
Power Consumption	134 W
Power Factor (Fraction)	0.95
Connection	Connection unit 3-pole
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
Total harmonic distortion	15 %
Controls and Dimming	

Flickering value (PstLM) - Flickering value as	0.5
per EN 61000-3-3	
Stroboscopic effect visibility measure (SVM)	1
Ambient temperature range	-30 to +50 °C
Initial Performance (IEC Compliant)	
Luminous flux tolerance	+/-10%
Initial chromaticity	(0.385, 0.380) SDCM<5
Power consumption tolerance	+/-10%
Standard Deviation of Colour Matching	SDCM≤5
(McAdam ellipse)	
Over Time Performance (IEC Compliant)	
Control gear failure rate at median useful life	5 %
50000 h	
Control gear failure rate at median useful life	10 %
100000 h	
Lumen maintenance (EN-IEC 62722-2-1) at	L85
median useful life* 50000 h	
Lumen maintenance (EN-IEC 62722-2-1) at	L75
median useful life* 100000 h	
Product Data	
Order product name	BY121P G5 LED200S/840 PSD WB
Full product name	BY121P G5 LED200S/840 PSD WB
Full product code	871951495573800
Order code	911401629908
Material Nr. (12NC)	911401629908
	per EN 61000-3-3 Stroboscopic effect visibility measure (SVM) Ambient temperature range Initial Performance (IEC Compliant) Luminous flux tolerance Initial chromaticity Power consumption tolerance Standard Deviation of Colour Matching (McAdam ellipse) Over Time Performance (IEC Compliant) Control gear failure rate at median useful life 50000 h Control gear failure rate at median useful life 100000 h Lumen maintenance (EN-IEC 62722-2-1) at median useful life* 50000 h Lumen maintenance (EN-IEC 62722-2-1) at median useful life* 100000 h Product Data Order product name Full product code Order code

1

1

8719514955738

8719514955738

Yes

ENEC mark

to EN62778

18.2 m

Yes

35 °C

Photobiological risk group 1@200mm

CE mark

ENEC mark

Photobiological risk

EU RoHS compliant

Photobiological risk specification

Numerator - Quantity Per Pack

Numerator - Packs per outer box

EAN/UPC - Product/Case

EAN/UPC - Case

Performance ambient temperature Tq

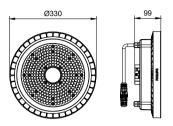
Constant light output	No	
DALI Standard	DALI-2™	
Maximum dim level	10%	
Mechanical and Housing		
Housing Material	Aluminum die-cast	

Reflector material	-
Optic material	Polycarbonate
Optical cover material	Polycarbonate
Fixation material	-
Housing Color	Grey
Optical cover finish	Clear
Overall length	330 mm
Overall height	99 mm
Overall diameter	330 mm
Ingress protection code	IP65 [Dust penetration-protected, jet-
	proof]
Mech. impact protection code	IK08 [5 J vandal-protected]
Net Weight (Piece)	3.540 kg

Approval and Application Glow-wire test Temperature 650 °C, duration 30 s Flammability mark For mounting on normally flammable surfaces

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Dimensional drawing





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