



# CoreLine Highbay Gen5

## **BY121P G5 LED200S/840 PSD NB**

CoreLine Highbay Gen5, 134 W, 20000 lm, 4000 K, DALI, Narrow 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 long-lifetime, 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**

General Information		
Light source replaceable	No	
Number of gear units	1 unit	
Driver included	Yes	
Service tag	Yes	
Lighting Technology	LED	
Value ladder	Performance	
Warranty period	5 years	
Sustainability rating	-	

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	Narrow beam
Luminaire light beam spread	55°

Datasheet, 2025, March 19 data subject to change

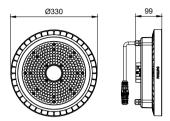
# CoreLine Highbay Gen5

Unified glare rating CEN	22
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	
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	10%
Mechanical and Housing	
Housing Material	Aluminum die-cast
Reflector material	<del>-</del>
Optic material	Polycarbonate
Optical cover material	Polycarbonate
Fixation material	
Housing Color	Grey
Optical cover finish	Clear
Overall length	330 mm
	99 mm
Overall height 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

CE mark	Yes
ENEC mark	ENEC mark
Photobiological risk	Photobiological risk group 1 @200mm
	to EN62778
Photobiological risk specification	18.2 m
EU RoHS compliant	Yes
Performance ambient temperature Tq	35 ℃
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 ℃
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 NB
Full product name	BY121P G5 LED200S/840 PSD NB
Full product code	871951495572100
Order code	911401629808
Material Nr. (12NC)	911401629808
Numerator - Quantity Per Pack	1
EAN/UPC - Product/Case	8719514955721
Numerator - Packs per outer box	1
EAN/UPC - Case	8719514955721

# **CoreLine Highbay Gen5**

### Dimensional drawing





© 2025 Signify Holding All rights reserved. Signify does not give any representation or warranty as to the accuracy or completeness of the information included herein and shall not be liable for any action in reliance thereon. The information presented in this document is not intended as any commercial offer and does not form part of any quotation or contract, unless otherwise agreed by Signify. Philips and the Philips Shield Emblem are registered trademarks of Koninklijke Philips N.V.