PHILIPS Lighting



CoreLine Highbay

BY121P G3 LED205S/865 PSU WB GR

LED module, system flux 20500 lm, 865 cool daylight, Power supply unit (On/Off), Wide beam, Grey

Following the successful introduction of the CoreLine High-bay in 2013, the upgrade to a new generation of LEDs has further improved color rendering and total cost of ownership. Designed as a replacement for HPI 250/400 W luminaires, CoreLine High-bay offers customers all the benefits of LED lighting – fresh light quality, longer service lifetime, reduced energy consumption and maintenance - from a trusted manufacturer. At the same time, it delivers clear benefits for the installer too. The luminaire can be installed on the existing grid. Electrical connection is straightforward: there is no need to open the luminaire for installation or servicing. And being smaller and lighter than conventional luminaires, it is very easy to handle.

Product data

General Information		Lighting Technology	LE
Lamp family code	LED205S [LED module, system flux 20500	CE mark	CE
	lm]	Warranty period	З у
Light source replaceable	No	Flammability mark	Fc
Number of gear units	1 unit		su
Driver included	Yes	ENEC mark	-
Remarks	*-Per Lighting Europe guidance paper	Glow-wire test	Te
	"Evaluating performance of LED based	EU RoHS compliant	Ye
	luminaires - January 2018": statistically there		
	is no relevant difference in lumen	Light Technical	
	maintenance between B50 and for example	Luminous Flux	20
	B10. Therefore, the median useful life (B50)	Correlated Color Temperature (Nom)	65
	value also represents the B10 value.	Luminous Efficacy (rated) (Nom)	13
Light source engine type	LED	Color rendering index (CRI)	≥8
Service tag	Yes		

Lighting Technology	LED
CE mark	CE mark
Warranty period	3 years + 2 years upon registration
Flammability mark	For mounting on normally flammable
	surfaces
ENEC mark	-
Glow-wire test	Temperature 650 °C, duration 5 s
EU RoHS compliant	Yes
Light Technical	
Luminous Flux	20,500 lm
Correlated Color Temperature (Nom)	6500 K
Luminous Efficacy (rated) (Nom)	130 lm/W
Color rendering index (CRI)	≥80

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Number of light sources	1
Beam angle of light source	- degree(s)
Light source color	865 cool daylight
Optic type	Wide beam
Optical cover type	Polycarbonate bowl/cover
Luminaire light beam spread	100°
Operating and Electrical	
Input Voltage	220 to 240 V
Line Frequency	50 to 60 Hz
Initial CLO power consumption	155 W
Average CLO power consumption	155 W
Inrush current	53 A
Inrush time	0.3 ms
Power Consumption	155 W
Power Factor (Fraction)	0.9
Connection	Connection unit 3-pole
Cable	Cable 0.5 m with cable connector 3-pole
Number of products on MCB of 16 A type	8
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В	
В	-30 to +45 ℃
B Temperature	-30 to +45 °C
B Temperature	-30 to +45 °C
B Temperature Ambient temperature range	-30 to +45 °C
B Temperature Ambient temperature range Controls and Dimming	
B Temperature Ambient temperature range Controls and Dimming Dimmable	No
B Temperature Ambient temperature range Controls and Dimming Dimmable Driver/power unit/transformer	No
B Temperature Ambient temperature range Controls and Dimming Dimmable Driver/power unit/transformer Control interface	No Power supply unit (On/Off) -
B Temperature Ambient temperature range Controls and Dimming Dimmable Driver/power unit/transformer Control interface	No Power supply unit (On/Off) -
B Temperature Ambient temperature range Controls and Dimming Dimmable Driver/power unit/transformer Control interface Constant light output	No Power supply unit (On/Off) -
B Temperature Ambient temperature range Controls and Dimming Dimmable Driver/power unit/transformer Control interface Constant light output Mechanical and Housing	No Power supply unit (On/Off) - Yes
B Temperature Ambient temperature range Controls and Dimming Dimmable Driver/power unit/transformer Control interface Constant light output Mechanical and Housing Housing Material	No Power supply unit (On/Off) - Yes
B Temperature Ambient temperature range Controls and Dimming Dimmable Driver/power unit/transformer Control interface Constant light output Mechanical and Housing Housing Material Reflector material	No Power supply unit (On/Off) - Yes Aluminum -
B Temperature Ambient temperature range Controls and Dimming Dimmable Driver/power unit/transformer Control interface Constant light output Mechanical and Housing Housing Material Reflector material Optic material	No Power supply unit (On/Off) - Yes Aluminum - Polycarbonate
B Temperature Ambient temperature range Controls and Dimming Dimmable Driver/power unit/transformer Control interface Constant light output Mechanical and Housing Housing Material Reflector material Optic material Optic material	No Power supply unit (On/Off) - Yes Aluminum - Polycarbonate

Overall length	454 mm
Overall width	452 mm
Overall height	152 mm
Overall diameter	452 mm
Dimensions (Height x Width x Depth)	152 x 452 x 454 mm

Approval and Application	
Ingress protection code	IP65 [Dust penetration-protected, jet-proof]
Mech. impact protection code	IK07 [2 J reinforced]
Protection class IEC	Safety class I

Initial Performance (IEC Compliant)	
Luminous flux tolerance	+/-10%
Initial chromaticity	(0.38, 0.38) SDCM <5
Power consumption tolerance	+/-10%

Over Time Performance (IEC Compliant) Control gear failure rate at median useful 5 %

life 50000 h Lumen maintenance at median useful life* L70

50000 h

EAN/UPC - Product/Case

EAN/UPC - Case

Numerator - Packs per outer box

Application Conditions	
Performance ambient temperature Tq	25 ℃
Suitable for random switching	Yes

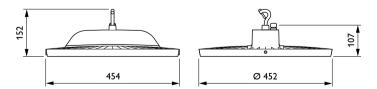
Product DataOrder product nameBY121P G3 LED2055/865 PSU WB GRFull product nameBY121P G3 LED205S/865 PSU WB GRFull product code871016331713700Order code31713700Material Nr. (12NC)911401571341Numerator - Quantity Per Pack1

1

8710163317137

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Dimensional drawing



CoreLine Highbay



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