PHILIPS Lighting



CoreLine Highbay

BY121P G3 LED205S/840 PSU WB GR

CoreLine Highbay, 155 W, 20500 lm, 4000 K, 100°

Following the successful introduction of the CoreLine High-bay in 2013, the upgrade to a new generation further improves the total cost of ownership and provides optionally DALI dimming for even further savings. Designed as a replacement for HPI 250/400 W luminaires, CoreLine High-bay G3 offers customers all the benefits of LED lighting – fresh light quality, longer service lifetime, reduced energy consumption and less 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

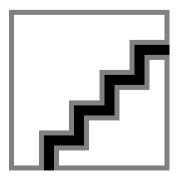
General Information	
Lamp family code	LED205S [LED module, system flux 20500
	lm]
Light source replaceable	No
Number of gear units	1 unit
Driver included	Yes
Remarks	*-Per Lighting Europe guidance paper
	"Evaluating performance of LED based
	luminaires - January 2018": statistically there
	is no relevant difference in lumen
	maintenance between B50 and for example
	B10. Therefore, the median useful life (B50)
	value also represents the B10 value.
Light source engine type	LED
Service tag	Yes

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)	4000 K	
Luminous Efficacy (rated) (Nom)	130 lm/W	
Color rendering index (CRI)	≥80	
Number of light sources	1	
Beam angle of light source	- degree(s)	

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Light source color	840 neutral white	Overall height	152 mm	
Optic type	Wide beam	Overall diameter	452 mm	
Optical cover type	Polycarbonate bowl/cover	Dimensions (Height x Width x Depth)	152 x 452 x 454 mm	
Luminaire light beam spread	100°			
		Approval and Application		
Operating and Electrical		Ingress protection code	IP65 [Dust penetration-protected, jet-proc	
Input Voltage	220 to 240 V	Mech. impact protection code	IK07 [2 J reinforced]	
Line Frequency	50 to 60 Hz	Protection class IEC	Safety class I	
Average CLO power consumption	false W			
Inrush current	46 A	Initial Performance (IEC Compliant)		
Inrush time	0.44 ms	Luminous flux tolerance	+/-10%	
Power Consumption	155 W	Initial chromaticity	(0.38, 0.38) SDCM <5	
Power Factor (Fraction)	0.9	Power consumption tolerance	+/-10%	
Connection	Connection unit 3-pole			
Cable	Cable 0.5 m with cable connector 3-pole	Over Time Performance (IEC Compliant)		
Number of products on MCB of 16 A ty	/pe 11	Control gear failure rate at median useful 5 %		
В		life 50000 h		
		Lumen maintenance at median useful	L70	
Temperature		life* 50000 h		
Ambient temperature range	-30 to +45 °C			
		Application Conditions		
Controls and Dimming		Performance ambient temperature Tq	25 °C	
Dimmable	No	Maximum dim level	Not applicable	
Driver/power unit/transformer	Power supply unit (On/Off)	Suitable for random switching	Yes	
Control interface	-			
Constant light output	No	Product Data		
		Order product name	BY121P G3 LED205S/840 PSU WB GR	
Mechanical and Housing		Full product name	BY121P G3 LED205S/840 PSU WB GR	
Housing Material	Aluminum	Full product code	871016330145700	
Reflector material	-	Order code	911401505431	
Optic material	Polycarbonate	Material Nr. (12NC)	911401505431	
Optical cover material	Polycarbonate	Numerator - Quantity Per Pack	1	
Fixation material	-	EAN/UPC - Product/Case	8710163301457	
Housing Color	Grey	Numerator - Packs per outer box	1	
Optical cover finish	Clear	EAN/UPC - Case	8710163301457	
Overall length	454 mm	· · · ·		
Overall width	452 mm			

Dimensional drawing



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www.lighting.philips.com 2023, October 5 - data subject to change