# **PHILIPS** Lighting



# **CoreLine Highbay**

# BY121P G3 LED205S/840 PSD WB GR

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

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**

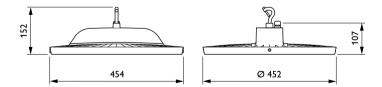
General Information		
Lamp family code	LED205S [LED module, system flux 20500	
	lm]	
Light source replaceable	No	
Number of gear units	1 unit	
Driver included	Yes	
Remarks	*-Per Lighting Europe guidance paper	
	"Evaluating performance of LED based	
	luminaires - January 2018": statistically there	
	is 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)	
Light source color	840 neutral white	
Optic type	Wide beam	

## **CoreLine Highbay**

Optical cover type	Polycarbonate bowl/cover	Overall diameter	452 mm
Luminaire light beam spread	100°	Dimensions (Height x Width x Depth)	452 mm
Lummane light beam spread	100		132 A 432 A 434 11111
Operating and Electrical		Approval and Application	
Input Voltage	220 to 240 V	Ingress protection code	IP65 [Dust penetration-protected, jet-pro
Line Frequency	50 to 60 Hz	Mech. impact protection code	IK07 [2 J reinforced]
Average CLO power consumption	142 W	Protection class IEC	Safety class I
Inrush current	53 A		
Inrush time	0.3 ms	Initial Performance (IEC Compliant)	
Power Consumption	155 W	Luminous flux tolerance	+/-10%
Power Factor (Fraction)	0.9	Initial chromaticity	(0.38, 0.38) SDCM <5
Connection	Connection unit 3-pole	Power consumption tolerance	+/-10%
Cable	Cable 0.5 m with cable connector 3-pole		
Number of products on MCB of 16 A typ	<b>e</b> 8	Over Time Performance (IEC Compliant)	
В		Control gear failure rate at median useful 5 %	
		life 50000 h	
Temperature		Lumen maintenance at median useful	L70
Ambient temperature range	-30 to +45 °C	life* 50000 h	
Controls and Dimming		Application Conditions	
Dimmable	Yes	Performance ambient temperature Tq	25 ℃
Driver/power unit/transformer	Power supply unit with DALI interface	Maximum dim level	10%
Control interface	DALI	Suitable for random switching	Yes
Constant light output	Yes		
		Product Data	
Mechanical and Housing		Order product name	BY121P G3 LED205S/840 PSD WB GR
Housing Material	Aluminum	Full product name	BY121P G3 LED205S/840 PSD WB GR
Reflector material	-	Full product code	871016330147100
Optic material	Polycarbonate	Order code	30147100
Optical cover material	Polycarbonate	Material Nr. (12NC)	911401505631
Fixation material	-	Numerator - Quantity Per Pack	1
Housing Color	Grey	EAN/UPC - Product/Case	8710163301471
Optical cover finish	Clear	Numerator - Packs per outer box	1
Overall length	454 mm	EAN/UPC - Case	8710163301471
Overall width	452 mm		
Overall height	152 mm		

#### **Dimensional drawing**



### **CoreLine Highbay**



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