



# **CoreLine Highbay**

### BY120P G3 LED105S/865 PIR WB GR

LED module, system flux 10500 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	
Lamp family code	LED105S [LED module, system flux 10500
	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
-	

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	10,500 lm
Correlated Color Temperature (Nom)	6500 K
Luminous Efficacy (rated) (Nom)	125 lm/W
Color rendering index (CRI)	≥80

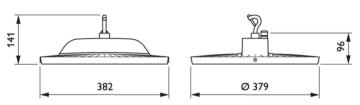
Datasheet, 2023, May 1 data subject to change

# **CoreLine Highbay**

Light source color  Departing and Electrical Input Voltage Line Frequency Inrush current Power Consumption Connection Controls and Dimming Dimmable Power unit/transformer Constant light output No  Mechanical and Housing Housing Material Polycarbonate Pixation material Polycarbonate Polycar	Number of light sources	1
Light source color  Optic type  Wide beam  Optical cover type  Luminaire light beam spread  Operating and Electrical  Input Voltage  100°  Operating and Electrical  Input Voltage  220 to 240 V  Line Frequency  50 to 60 Hz  Inrush current  46 A  Inrush time  0.44 ms  Power Consumption  85 W  Power Factor (Fraction)  Connection  Connection  Connection unit 3-pole  Cable  Cable 0.5 m with cable connector 3-pole  Number of products on MCB of 16 A type  B  Temperature  Ambient temperature range  -30 to +45 °C  Controls and Dimming  Dimmable  Yes  Driver/power unit/transformer  Constant light output  No  Mechanical and Housing  Housing Material  Polycarbonate  Optic material  Polycarbonate  Fixation material  Housing Color  Grey  Optical cover finish  Clear  Overall length  382 mm		
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 Inrush current 46 A Inrush time 0.44 ms Power Consumption 85 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 11 B  Temperature Ambient temperature range -30 to +45 °C  Controls and Dimming Dimmable Yes Driver/power unit/transformer Power supply unit (On/Off)  Control interface - Constant light output No  Mechanical and Housing Housing Material Aluminum Reflector material - Optic material Polycarbonate Fixation material - Housing Color Grey Optical cover finish Clear Overall length 382 mm		
Optical cover type Luminaire light beam spread  Depracting and Electrical Input Voltage Line Frequency So to 60 Hz Inrush current 46 A Inrush time O.44 ms Power Consumption 85 W Power Factor (Fraction) Connection Connection Connection Cable Cable O.5 m with cable connector 3-pole Number of products on MCB of 16 A type B  Temperature Ambient temperature range -30 to +45 °C  Controls and Dimming Dimmable Yes Driver/power unit/transformer Power supply unit (On/Off) Control interface - Constant light output No  Mechanical and Housing Housing Material Reflector material Polycarbonate Fixation material Fixation material Housing Color Optical cover finish Clear Overall length 382 mm		-
Coperating and Electrical		
Operating and Electrical  Input Voltage		
Input Voltage 220 to 240 V  Line Frequency 50 to 60 Hz  Inrush current 46 A  Inrush time 0.44 ms  Power Consumption 85 W  Power Factor (Fraction) 0.9  Connection Connection unit 3-pole  Cable Cable O.5 m with cable connector 3-pole  Number of products on MCB of 16 A type B  Temperature  Ambient temperature range -30 to +45 °C  Controls and Dimming  Dimmable Yes  Driver/power unit/transformer Power supply unit (On/Off)  Control interface -  Constant light output No  Mechanical and Housing  Housing Material Aluminum  Reflector material Polycarbonate  Optical cover material Polycarbonate  Fixation material -  Housing Color Grey  Optical cover finish Clear  Overall length 382 mm	Lummaire tight beam spread	100
Input Voltage 220 to 240 V  Line Frequency 50 to 60 Hz  Inrush current 46 A  Inrush time 0.44 ms  Power Consumption 85 W  Power Factor (Fraction) 0.9  Connection Connection unit 3-pole  Cable Cable O.5 m with cable connector 3-pole  Number of products on MCB of 16 A type B  Temperature  Ambient temperature range -30 to +45 °C  Controls and Dimming  Dimmable Yes  Driver/power unit/transformer Power supply unit (On/Off)  Control interface -  Constant light output No  Mechanical and Housing  Housing Material Aluminum  Reflector material Polycarbonate  Optical cover material Polycarbonate  Fixation material -  Housing Color Grey  Optical cover finish Clear  Overall length 382 mm	Operating and Electrical	
Line Frequency 50 to 60 Hz  Inrush current 46 A  Inrush time 0.44 ms  Power Consumption 85 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 11  B  Temperature  Ambient temperature range -30 to +45 °C  Controls and Dimming  Dimmable Yes  Driver/power unit/transformer Power supply unit (On/Off)  Control interface - Constant light output No  Mechanical and Housing  Housing Material Aluminum  Reflector material - Optic material Polycarbonate  Optical cover material - Housing Color Grey  Optical cover finish Clear  Overall length 382 mm		220 to 240 V
Inrush current 46 A Inrush time 0.44 ms Power Consumption 85 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 11 B  Temperature Ambient temperature range -30 to +45 °C  Controls and Dimming Dimmable Yes Driver/power unit/transformer Power supply unit (On/Off) Control interface - Constant light output No  Mechanical and Housing Housing Material Aluminum Reflector material - Optic material Polycarbonate Optical cover material - Housing Color Grey Optical cover finish Clear Overall length 382 mm		
Inrush time 0.44 ms  Power Consumption 85 W  Power Factor (Fraction) 0.9  Connection Connection unit 3-pole  Cable Cable Cable 0.5 m with cable connector 3-pole  Number of products on MCB of 16 A type 11  B  Temperature  Ambient temperature range -30 to +45 °C  Controls and Dimming  Dimmable Yes  Driver/power unit/transformer Power supply unit (On/Off)  Control interface - Constant light output No  Mechanical and Housing  Housing Material Aluminum  Reflector material - Optic material Polycarbonate  Optical cover material - Fixation material - Housing Color Grey  Optical cover finish Clear  Overall length 382 mm		
Power Consumption 85 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 B  Temperature Ambient temperature range -30 to +45 °C  Controls and Dimming Dimmable Yes Driver/power unit/transformer Power supply unit (On/Off)  Control interface - Constant light output No  Mechanical and Housing Housing Material Aluminum Reflector material Polycarbonate Optical cover material Polycarbonate Fixation material - Housing Color Grey Optical cover finish Clear Overall length 382 mm		
Power Factor (Fraction)  Connection  Connection  Cable  Cable 0.5 m with cable connector 3-pole  Number of products on MCB of 16 A type B  Temperature  Ambient temperature range  -30 to +45 °C  Controls and Dimming  Dimmable  Yes  Driver/power unit/transformer  Power supply unit (On/Off)  Control interface  - Constant light output  No  Mechanical and Housing  Housing Material  Aluminum  Reflector material  - Optical cover material  Polycarbonate  Fixation material  Housing Color  Grey  Optical cover finish  Clear  Overall length  382 mm		
Connection Connection unit 3-pole Cable Cable 0.5 m with cable connector 3-pole Number of products on MCB of 16 A type B  Temperature Ambient temperature range -30 to +45 °C  Controls and Dimming Dimmable Yes Driver/power unit/transformer Power supply unit (On/Off)  Control interface - Constant light output No  Mechanical and Housing Housing Material Aluminum  Reflector material Polycarbonate Optic material Polycarbonate Fixation material - Housing Color Grey Optical cover finish Clear Overall length 382 mm		
Cable Cable 0.5 m with cable connector 3-pole  Number of products on MCB of 16 A type B  Temperature  Ambient temperature range -30 to +45 °C  Controls and Dimming Dimmable Yes Driver/power unit/transformer Power supply unit (On/Off)  Control interface - Constant light output No  Mechanical and Housing Housing Material Aluminum  Reflector material Polycarbonate  Optic material Polycarbonate  Fixation material - Housing Color Grey  Optical cover finish Clear  Overall length 382 mm		
Number of products on MCB of 16 A type  B  Temperature  Ambient temperature range -30 to +45 °C  Controls and Dimming  Dimmable Yes  Driver/power unit/transformer Power supply unit (On/Off)  Control interface -  Constant light output No  Mechanical and Housing  Housing Material Aluminum  Reflector material - Optic material Polycarbonate  Optical cover material Polycarbonate  Fixation material - Housing Color Grey  Optical cover finish Clear  Overall length 382 mm		·
Temperature  Ambient temperature range -30 to +45 °C  Controls and Dimming Dimmable Yes Driver/power unit/transformer Power supply unit (On/Off)  Control interface - Constant light output No  Mechanical and Housing Housing Material Aluminum  Reflector material - Optic material Polycarbonate Optical cover material Polycarbonate Fixation material - Housing Color Grey Optical cover finish Clear Overall length 382 mm	Number of products on MCB of 16 A type	·
Ambient temperature range -30 to +45 °C  Controls and Dimming  Dimmable Yes  Driver/power unit/transformer Power supply unit (On/Off)  Control interface - Constant light output No  Mechanical and Housing  Housing Material Aluminum  Reflector material - Optic material Polycarbonate  Optical cover material Polycarbonate  Fixation material - Housing Color Grey  Optical cover finish Clear  Overall length 382 mm		
Ambient temperature range -30 to +45 °C  Controls and Dimming  Dimmable Yes  Driver/power unit/transformer Power supply unit (On/Off)  Control interface - Constant light output No  Mechanical and Housing  Housing Material Aluminum  Reflector material - Optic material Polycarbonate  Optical cover material Polycarbonate  Fixation material - Housing Color Grey  Optical cover finish Clear  Overall length 382 mm		
Controls and Dimming  Dimmable Yes  Driver/power unit/transformer Power supply unit (On/Off)  Control interface - Constant light output No  Mechanical and Housing  Housing Material Aluminum  Reflector material - Optic material Polycarbonate  Optical cover material Polycarbonate  Fixation material - Housing Color Grey  Optical cover finish Clear  Overall length 382 mm	Temperature	
Dimmable Yes  Driver/power unit/transformer Power supply unit (On/Off)  Control interface -  Constant light output No  Mechanical and Housing  Housing Material Aluminum  Reflector material -  Optic material Polycarbonate  Optical cover material Polycarbonate  Fixation material -  Housing Color Grey  Optical cover finish Clear  Overall length 382 mm	Ambient temperature range	-30 to +45 °C
Dimmable Yes  Driver/power unit/transformer Power supply unit (On/Off)  Control interface -  Constant light output No  Mechanical and Housing  Housing Material Aluminum  Reflector material -  Optic material Polycarbonate  Optical cover material Polycarbonate  Fixation material -  Housing Color Grey  Optical cover finish Clear  Overall length 382 mm		
Driver/power unit/transformer Power supply unit (On/Off)  Control interface -  Constant light output No  Mechanical and Housing  Housing Material Aluminum  Reflector material -  Optic material Polycarbonate  Optical cover material Polycarbonate  Fixation material -  Housing Color Grey  Optical cover finish Clear  Overall length 382 mm	Controls and Dimming	
Control interface - Constant light output No  Mechanical and Housing Housing Material Aluminum  Reflector material - Optic material Polycarbonate  Optical cover material - Housing Color Grey  Optical cover finish Clear  Overall length 382 mm	Dimmable	Yes
Constant light output  No  Mechanical and Housing  Housing Material  Reflector material  Optic material  Optical cover material  Fixation material  Housing Color  Optical cover finish  Clear  Overall length  No  Aluminum  Polycarbonate  Polycarbonate  Forey  Optical cover finish  Clear	Driver/power unit/transformer	Power supply unit (On/Off)
Mechanical and Housing  Housing Material Aluminum  Reflector material - Optic material Polycarbonate  Optical cover material Polycarbonate  Fixation material - Housing Color Grey  Optical cover finish Clear  Overall length 382 mm	Control interface	-
Housing Material Aluminum  Reflector material - Optic material Polycarbonate  Optical cover material Polycarbonate  Fixation material - Housing Color Grey  Optical cover finish Clear  Overall length 382 mm	Constant light output	No
Housing Material Aluminum  Reflector material - Optic material Polycarbonate  Optical cover material Polycarbonate  Fixation material - Housing Color Grey  Optical cover finish Clear  Overall length 382 mm		
Reflector material - Optic material Polycarbonate Optical cover material Polycarbonate Fixation material - Housing Color Grey Optical cover finish Clear Overall length 382 mm	Mechanical and Housing	
Optic material Polycarbonate  Optical cover material Polycarbonate  Fixation material -  Housing Color Grey  Optical cover finish Clear  Overall length 382 mm	Housing Material	Aluminum
Optical cover material Polycarbonate  Fixation material - Housing Color Grey  Optical cover finish Clear  Overall length 382 mm	Reflector material	-
Fixation material - Housing Color Grey Optical cover finish Clear Overall length 382 mm	Optic material	Polycarbonate
Housing Color Grey  Optical cover finish Clear  Overall length 382 mm	Optical cover material	Polycarbonate
Optical cover finish     Clear       Overall length     382 mm	Fixation material	-
Overall length 382 mm	Housing Color	Grey
	Optical cover finish	Clear
Overall width 379 mm	Overall length	382 mm
	Overall width	379 mm

Overall height	141 mm
Overall diameter	379 mm
Dimensions (Height x Width x Depth)	141 x 379 x 382 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 Compli	iant)
Control gear failure rate at median useful	5 %
life 50000 h	
Lumen maintenance at median useful life*	* L70
50000 h	
Application Conditions	
Performance ambient temperature Tq	25 °C
Maximum dim level	25%
Suitable for random switching	Yes
Product Data	
Order product name	BY120P G3 LED105S/865 PIR WB GR
Full product name	BY120P G3 LED105S/865 PIR WB GR
Full product code	871016331717500
Order code	31717500
Material Nr. (12NC)	911401571541
Numerator - Quantity Per Pack	1
EAN/UPC - Product/Case	8710163317175
Numerator - Packs per outer box	1
EAN/UPC - Case	8710163317175
Larry or C - Case	0,10,0001/1/0

## Dimensional drawing



# **CoreLine Highbay**



© 2023 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.