



# CoreLine Highbay Gen5

## BY122P G5 LED300S/840 PSU NB

CoreLine Highbay Gen5, 181 W, 31000 lm, 4000 K, Narrow beam, IP65, IK08

Aluminium die-cast, Grey, Power supply unit (On/Off), 31000 lm, 181 W, 171 lm/W, 4000 K, (0.385, 0.380) SDCM<5, Narrow beam, Clear, Polycarbonate, IP65 | Dust penetration-protected, jet-proof, IK08 | 5 J vandal-protected, Safety class I, Connection unit 3-pole

### Product data

General Information	
Light source replaceable	No
Number of gear units	Unit
Driver included	Yes
Service Tag	Yes
Lighting Technology	LED
Value ladder	Performance
Warranty period	5 years
Light Technical	
Luminous Flux	31,000 lm
Saturated Red (R9)	<50
Correlated Colour Temperature (Nom)	4000 K
Luminous efficacy (rated) (nom.)	171 lm/W
Colour rendering index (CRI)	>80
Light source colour	840 neutral white
Optic type	Narrow beam

Luminaire light beam spread	55°
Unified Glare Rating (CEN)	22
Operating and Electrical	
Input Voltage	220 to 240 V
Line Frequency	50 or 60 Hz
Inrush current	54 A
Inrush time	0.75 ms
Power Consumption	181 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 (16 A type B)	6
Suitable for random switching	Yes
Protection class IEC	Safety class I
Total harmonic distortion	15 %

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## Controls and Dimming

Dimmable	No
Driver/power unit/transformer	Power supply unit (On/Off)
Control interface	-
Constant light output	No
Maximum dim level	Not applicable

## Mechanical and Housing

Housing material	Aluminium die-cast
Reflector material	-
Optic material	Polycarbonate
Optical cover/lens material	Polycarbonate
Fixation material	-
Housing Colour	Grey
Optical cover/lens finish	Clear
Overall height	99 mm
Overall diameter	393 mm
Ingress protection code	IP65 [Dust penetration-protected, jet-proof]
Mech. impact protection code	IK08 [5 J vandal-protected]
Net Weight (Piece)	4.190 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 °C
Flickering value (PstLM)	0.5
Stroboscopic effect	1
Ambient temperature range	-30 to +50 °C

## 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 (McAdam ellipse)	SDCM≤5

## Over Time Performance (IEC Compliant)

Control gear failure rate at median useful life 50,000 h	5 %
Control gear failure rate at median useful life 100,000 h	10 %
Lumen maintenance (EN-IEC 62722-2-1) at median useful life* 50000 h	L85
Lumen maintenance (EN-IEC 62722-2-1) at median useful life* 100000 h	L75

## Sustainability Data

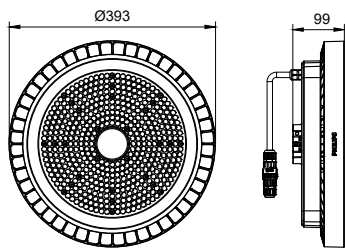
Sustainability rating	Unclassified
Repair class	Repair Class D, this product is not designed to be repaired.
Embedded carbon (A1-A3)	93.4 kg CO <sub>2e</sub>
Product non-virgin material ratio	6.17 %
Recyclable the content ratio of the finished product	55.7 %
GWP total B6 (kg CO <sub>2eq</sub> ) Declared Unit	Please calculate using your local energy mix value: Power Declared Unit (kW) * Service life (hrs) Declared Unit * Energy mix (kg CO <sub>2eq</sub> / kWh)
GWP total B6 (kg CO <sub>2eq</sub> ) Functional Unit	Please calculate using your local energy mix value: POWER DECLARED UNIT (kW) * 1000 (lm) / LUMEN OUTPUT DECLARED UNIT (lm) * 35000 (hrs) * ENERGY MIX (kg CO <sub>2 eq</sub> / kWh)

## Product Data

Order product name	BY122P G5 LED300S/840 PSU NB
Full product name	BY122P G5 LED300S/840 PSU NB
Full EOC	871951495600100
Order code	911401632608
Material no. (12 NC)	911401632608
Numerator – quantity per pack	1
EAN/UPC – Product/Case	8719514956001
Numerator – packs per outer box	1
EAN/UPC - Case	8719514956001

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## Dimensional drawing



## Photometric data



Polar Normal (separate) - 911401632608

