Coreline Highbay Gen4

BY120P G4 LED100S/840 PSU NB

840 neutral white - Power supply unit - Narrow beam - Gray

Following the success of the previous generation CoreLine High-bay, the upgrade to a new generation further improves performance with new innovation design and provides higher efficiency, longer lifetime (to further improve the total cost of ownership), and optional DALI dimming for even further savings. Designed as a replacement for HPI 250/400 W luminaires, CoreLine High-bay G4 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	
Beam angle of light source	55 °
Light source color	840 neutral white
Light source replaceable	No
Number of gear units	1 unit
Driver/power unit/transformer	Power supply unit
Driver included	Yes
Optic type	Narrow beam
Luminaire light beam spread	55°
Control interface	–
Connection	Connection unit 3-pole

Cable	Cable 0.3 m with connector 3-pole
Protection class IEC	Safety class I
Glow-wire test	Temperature 650 °C, duration 30 s
Flammability mark	For mounting on normally flammable surfaces
CE mark	CE mark
ENEC mark	–
Warranty period	5 years
Constant light output	No
Number of products on MCB of 16 A type B	8
RoHS mark	RoHS mark

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Unified glare rating CEN	22

Operating and Electrical

Input Voltage	220 to 240 V
Input Frequency	50 to 60 Hz
Initial CLO power consumption	– W
Average CLO power consumption	– W
Inrush current	54 A
Inrush time	0.65 ms
Power Factor (Min)	0.95

Controls and Dimming

Dimmable	No

Mechanical and Housing

Housing Material	Aluminum
Reflector material	–
Optic material	Polycarbonate
Optical cover/lens material	Polycarbonate
Fixation material	–
Optical cover/lens finish	Clear
Overall height	95 mm
Overall diameter	385 mm
Color	Gray

Approval and Application

Ingress protection code	IP65 [Dust penetration-protected, jet-proof]
Mech. impact protection code	IK07 [2 J reinforced]

Initial Performance (IEC Compliant)

Initial luminous flux (system flux)	10000 lm
Luminous flux tolerance	+/–10%

Initial LED luminaire efficacy	145 lm/W
Init. Corr. Color Temperature	4000 K
Init. Color Rendering Index	>80
Initial chromaticity	(0.38, 0.38) SDCM <5
Initial input power	69 W
Power consumption tolerance	+/–10%

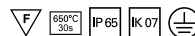## Over Time Performance (IEC Compliant)

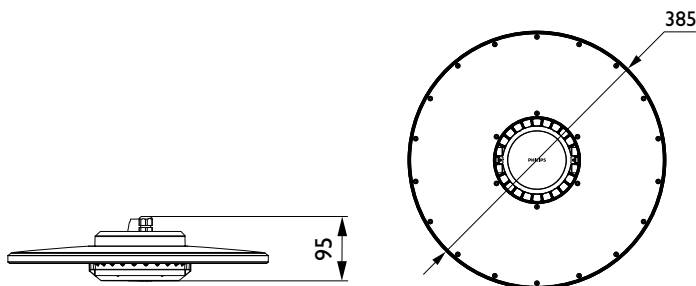|	
Control gear failure rate at median useful life 50000 h	5 %
Median useful life L70B50	70000 h
Lumen maintenance at median useful life* 50000 h	L80

Application Conditions

Ambient temperature range	–30 to +45 ℃
Performance ambient temperature Tq	25 ℃
Maximum dim level	Not applicable
Suitable for random switching	Yes

Product Data

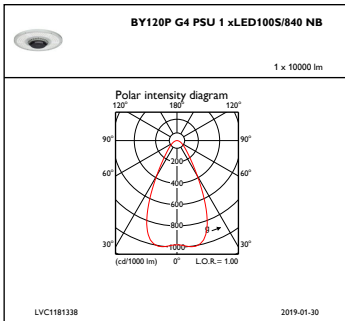|	
Full product code	871016333571100
Order product name	BY120P G4 LED100S/840 PSU NB
EAN/UPC – Product	8710163335711
Order code	911401569851
Numerator – Quantity Per Pack	1
Numerator – Packs per outer box	1
Material Nr. (12NC)	911401569851
Net Weight (Piece)	3.300 kg

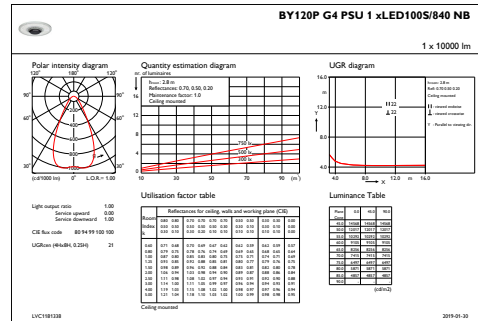F 650℃/30s IP 65 IK 07 ⏚

Dimensional drawing

CoreLine High-bay BY120P/BY121P

Coreline Highbay Gen4

Photometric data

IFPC1_BY120PG4PSU1xLED100S840NB

IFGU1_BY120PG4PSU1xLED100S840NB

www.lighting.philips.com

2019, July 8 – data subject to change