![PHILIPS Lighting logo]

GreenPerform Highbay HT

BY688P LED160/NW PSD NB G2 120-277XTEN

840 neutral white – Power supply unit with DALI interface – Narrow beam – Tempered glass

The GreenPerform Highbay High Ta is an ideal solution for high temperatures and special heavy industry usage, enables a safe working environment with leading specifications and offers comfortable light. In the meantime, lower your overall maintenance costs.

Product data

General Information

Beam angle of light source	– °
Lamp colour code	840 neutral white
Light source replaceable	No
Number of gear units	1 unit
Driver/power unit/transformer	PSD [Power supply unit with DALI interface]
Driver included	Yes
Optic type	NB [Narrow beam]
Optical cover/lens type	GT [Tempered glass]
Luminaire light beam spread	60°
Control interface	DALI
Connection	Flying leads/wires
Cable	Cable 0.3 m without plug
Protection class IEC	Safety class I (I)
Glow-wire test	650/5 [Temperature 650 °C, duration 5 s]
Flammability mark	F [For mounting on normally flammable surfaces]

CE mark	CE mark
ENEC mark	–
Warranty period	3 years
Constant light output	No
Number of products on MCB (16 A type B)	8
EU RoHS compliant	No
LED engine type	LED

Operating and Electrical

Input Voltage	120 to 277 V
Input frequency	50 to 60 Hz
Inrush current	126 A
Inrush time	140 ms
Power factor (min.)	0.95

GreenPerform Highbay HT

Controls and Dimming

Dimmable	Yes

Mechanical and Housing

Housing material	Aluminum die−cast
Reflector material	-
Optic material	Polycarbonate
Optical cover/lens material	Tempered glass
Fixation material	-
Optical cover/lens finish	Clear
Overall height	150 mm
Overall diameter	456 mm
Colour	Silver

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)	16000 lm
Luminous flux tolerance	+/−10%
Initial LED luminaire efficacy	133 lm/W
Lamp colour temperature	4000 K
Colour Rendering Index	>80
Initial chromaticity	(0.38.0.38)SDCM<5

Initial input power

Initial input power	120 W
Power consumption tolerance	+/−10%

Over Time Performance (IEC Compliant)

Median useful life L70B50	75000 h
Median useful life L80B50	60000 h
Median useful life L90B50	45000 h

Application Conditions
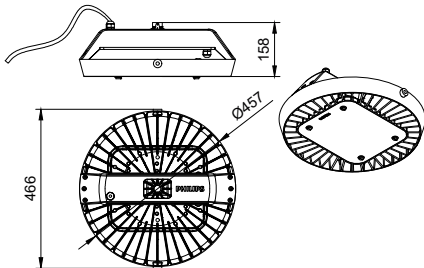
Ambient temperature range	−30 to +60 ℃
Maximum dimming level	10% (depends on dimmer, ELV)
Suitable for random switching	No

Product Data

Full product code	911401517651
Order product name	BY688P LED160/NW PSD NB G2 120−277XTEN
Order code	911401517651
Numerator − quantity per pack	1
SAP numerator − packs per outer box	1
Material no. (12 NC)	911401517651
Net Weight (Piece)	6.299 kg

Dimensional drawing

GreenPerform High−bay gen2 BY687P−BY689P

GreenPerform Highbay HT

www.lighting.philips.com

2020, November 2 – data subject to change