Philips GreenPerform Highbay G5: a versatile LED highbay with optimized performance and future-proof control system

GreenPerform Highbay G5

The GreenPerform Highbay G5 continues the GreenPerform family's enviable reputation for reliable performance. Not only does it deliver leading system efficacy and extended long-term quality, it also promises Unified Glare Rating (UGR) control with compact dimensions. GreenPerform Highbay G5 is also fully compatible with IoT software such as Interact, which is a scalable, future-proof control system. The family also has a series that supports cold room applications with 100% humidity and no condensation. All benefits than make this robust, optimized, and versatile family suitable for almost all industrial applications.

Benefits
· Excellent energy savings
· Long-term quality and reliability
· Visual comfort
· Wide range of applications
· Connected ready for cloud-based IoT software applications

GreenPerform Highbay G5

Features
· 170 lm/W system efficacy
· 75,000 hours L70B50 lifetime @Ta 35º
· Glare control (Narrow Beam), uniform illuminance (Wide Beam)
· Works seamlessly with the Interact IoT software and platform
· Cold room application support

Application
· Manufacturing
· Warehouses
· Logistic center
· Exhibition hall

Specifications

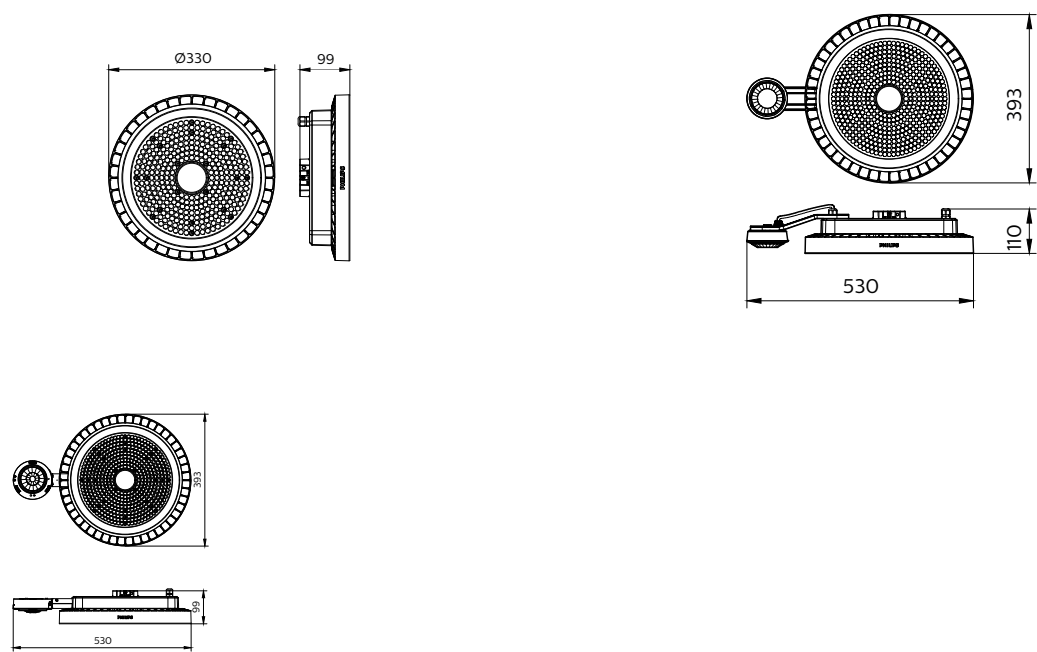|				
Mounting type	Suspended		Luminaire efficacy	Up to 160lm/W
	Pipe		Correlated color	4000K
	Surface		temperature – CCT	6500K
Operating Temperature range	–30 to +50 ºC		Color Rendering index – CRI	80
Light Source	LED		Beam angle	WB: 85°
Mains Voltage	220–240V / 50–60Hz			NB: 55°
Mains connection	Flying cable		Optical cover/lens material	PC
Mechanical Accessories	Hook for suspension		Optical cover/lens finish	Clear
	Mounting bracket for surface			
Dimming	PSU: non-dimmable		Protection Class IEC61140	Class I
	PSD: Dimmable via Dali-broadcasting		Mechanical impact protection	IK08
	Connected: Wireless control, compatible with SNH210 sensor		Ingress protection	IP65
Control system input	DALI/Wireless		Driver replaceable	Yes
Integrated sensors	SNH210		UGR	WB: 25
Material	Housing: die-cast aluminium			NB: 22
Main color of the luminaire	RAL7012		Installation	Suspended
Flicker / Pst / SVM	PSU: <30%			Pipe
	PSD/Connected: <3.2%			Surface
Luminous flux	10klm-30klm			
Power consumption	67W-205W			

Versions

GreenPerform Highbay G5

GreenPerform Highbay G5

GreenPerform Highbay G5

Dimensional drawing

Product details

GreenPerform Highbay G5

GreenPerform Highbay G5

GreenPerform Highbay G5

General Information

Driver included	Yes
Gear	–
Number of gear units	1 unit

Light Technical

Beam angle of light source	115 degree(s)
Color rendering index (CRI)	80
Number of light sources	1

Operating and Electrical

Protection class IEC	Safety class I
Input Voltage	220 to 240 V
Line Frequency	50 or 60 Hz
Suitable for random switching	Yes

Mechanical and Housing

Optical cover type	Clear dome
Housing Color	Grey
Ingress protection code	IP65

Approval and Application

CE mark	Yes
ENEC mark	–
Flammability mark	For mounting on normally flammable surfaces

Light Technical

Order Code	Full Product Name	Correlated Color Temperature (Nom)	Luminous Efficacy (rated) (Nom)	Luminous Flux	Optic type
911401551045	BY698X G5 LED200/CW L1W PIR WB GM	6500 K	169 lm/W	20,500 lm	Wide beam
911401552845	BY698X G5 LED300/NW L1W PIR WB GM L3m	4000 K	171 lm/W	31,000 lm	Wide beam
911401529245	BY698P G5 LED200/CW PSU WB GM	6500 K	169 lm/W	20,500 lm	Wide beam
911401544545	BY698X G5 LED150/CW Connected NB GM	6500 K	174 lm/W	15,000 lm	Narrow beam

Operating and Electrical

Order Code	Full Product Name	Power Consumption
911401551045	BY698X G5 LED200/CW L1W PIR WB GM	121 W
911401552845	BY698X G5 LED300/NW L1W PIR WB GM L3m	181 W

Order Code	Full Product Name	Power Consumption
911401529245	BY698P G5 LED200/CW PSU WB GM	121 W
911401544545	BY698X G5 LED150/CW Connected NB GM	86 W

Controls and Dimming

Order Code	Full Product Name	Dimmable	Maximum dim level
911401551045	BY698X G5 LED200/CW L1W PIR WB GM	Wireless Dim – Do not use with dimmer	0% (digital)
911401552845	BY698X G5 LED300/NW L1W PIR WB GM L3m	Wireless Dim – Do not use with dimmer	0% (digital)

Order Code	Full Product Name	Dimmable	Maximum dim level
911401529245	BY698P G5 LED200/CW PSU WB GM	–	Not applicable
911401544545	BY698X G5 LED150/CW Connected NB GM	–	3%

Mechanical and Housing

Order Code	Full Product Name	Mech. impact protection code
911401551045	BY698X G5 LED200/CW L1W PIR WB GM	IK03
911401552845	BY698X G5 LED300/NW L1W PIR WB GM L3m	IK03

Order Code	Full Product Name	Mech. impact protection code
911401529245	BY698P G5 LED200/CW PSU WB GM	IK08
911401544545	BY698X G5 LED150/CW Connected NB GM	IK05

Approval and Application

GreenPerform Highbay G5

Order Code	Full Product Name	Ambient temperature range	Glow-wire test
911401551045	BY698X G5 LED200/CW L1W PIR WB GM	–30 to +50 ℃	Temperature 750 ℃, duration 30 s
911401552845	BY698X G5 LED300/NW L1W PIR WB GM L3m	–30 to +50 ℃	Temperature 750 ℃, duration 30 s

Order Code	Full Product Name	Ambient temperature range	Glow-wire test
911401529245	BY698P G5 LED200/CW PSU WB GM	–30 ℃ to 50 ℃	Temperature 650 ℃, duration 30 s
911401544545	BY698X G5 LED150/CW Connected NB GM	–30 ℃ to 50 ℃	Temperature 650 ℃, duration 30 s

Initial Performance (IEC Compliant)

Order Code	Full Product Name	Initial chromaticity	Luminous flux tolerance
911401551045	BY698X G5 LED200/CW L1W PIR WB GM	(0.317, 0.338) SDCM<5	+/-10%
911401552845	BY698X G5 LED300/NW L1W PIR WB GM L3m	(0.386, 0.384) SDCM<5	+/-10%

Order Code	Full Product Name	Initial chromaticity	Luminous flux tolerance
911401529245	BY698P G5 LED200/CW PSU WB GM	(0.317, 0.338) SDCM<5	–10% / +10%
911401544545	BY698X G5 LED150/CW Connected NB GM	(0.317, 0.338) SDCM<5	–10% / +10%

PHILIPS

www.lighting.philips.com

2023, April 13 – data subject to change