



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 that 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 35°
- Glare control (Narrow Beam), uniform illuminance (Wide Beam)
- Works seamlessly with the Interact IoT software and platform
- Cold room application support

Application

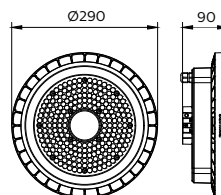
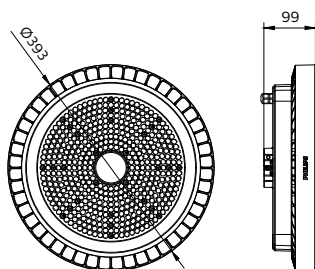
- Manufacturing
- Warehouses
- Logistic center
- Exhibition hall

Specifications

Mounting type	Suspended
	Pipe
	Surface
Operating Temperature range	-30 to +50 °C
Light Source	LED
Mains Voltage	220-240V / 50-60Hz
Mains connection	Flying cable
Mechanical Accessories	Hook for suspension
	Mounting bracket for surface
Dimming	PSU: non-dimmable
	PSD: Dimmable via Dali-broadcasting
	Connected: Wireless control, compatible with SNH210 sensor
Control system input	DALI/Wireless
Integrated sensors	SNH210
Material	Housing: die-cast aluminium
Main color of the luminaire	RAL7012
Flicker / Pst / SVM	PSU: <30%
	PSD/Connected: <3.2%
Luminous flux	10klm-30klm
Power consumption	67W-205W

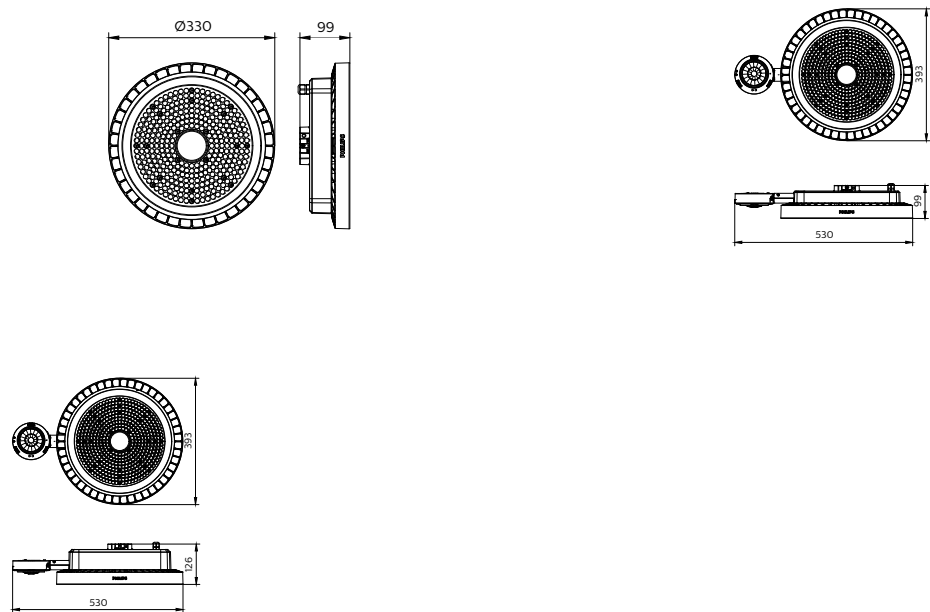
Luminaire efficacy	Up to 160lm/W
Correlated color temperature - CCT	4000K
Color Rendering index - CRI	6500K
Beam angle	WB: 85°
	NB: 55°
Optical cover/lens material	PC
Optical cover/lens finish	Clear
Protection Class	Class I
IEC61140	
Mechanical impact protection	IK08
Ingress protection	IP65
Driver replaceable	Yes
UGR	WB: 25
	NB: 22
Installation	Suspended
	Pipe
	Surface

Dimensional drawing



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Dimensional drawing



Product details



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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

Controls and Dimming

Dimmable	-
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Mechanical and Housing

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

Approval and Application

Ambient temperature range	-30 °C to 50 °C
CE mark	Yes
ENEC mark	-
Flammability mark	For mounting on normally flammable surfaces
Glow-wire test	Temperature 650 °C, duration 30 s

Initial Performance (IEC Compliant)

Luminous flux tolerance	-10% / +10%
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Light Technical

Order Code	Full Product Name	Correlated Color Temperature (Nom)	Luminous Efficacy (rated) (Nom)	Luminous Flux	Optic type
911401528245	BY698P G5 LED105/NW PSU WB GM	4000 K	166 lm/W	10,500 lm	Wide beam
911401528345	BY698P G5 LED105/NW PSU NB GM	4000 K	166 lm/W	10,500 lm	Narrow beam
911401528445	BY698P G5 LED105/CW PSU WB GM	6500 K	166 lm/W	10,500 lm	Wide beam
911401528545	BY698P G5 LED105/CW PSU NB GM	6500 K	166 lm/W	10,500 lm	Narrow beam
911401528645	BY698P G5 LED150/NW PSU WB GM	4000 K	170 lm/W	15,000 lm	Wide beam
911401528745	BY698P G5 LED150/NW PSU NB GM	4000 K	170 lm/W	15,000 lm	Narrow beam
911401528845	BY698P G5 LED150/CW PSU WB GM	6500 K	170 lm/W	15,000 lm	Wide beam
911401528945	BY698P G5 LED150/CW PSU NB GM	6500 K	170 lm/W	15,000 lm	Narrow beam
911401529045	BY698P G5 LED200/NW PSU WB GM	4000 K	169 lm/W	20,500 lm	Wide beam
911401529145	BY698P G5 LED200/NW PSU NB GM	4000 K	169 lm/W	20,500 lm	Narrow beam
911401529245	BY698P G5 LED200/CW PSU WB GM	6500 K	169 lm/W	20,500 lm	Wide beam
911401529345	BY698P G5 LED200/CW PSU NB GM	6500 K	169 lm/W	20,500 lm	Narrow beam
911401529445	BY698P G5 LED250/NW PSU WB GM	4000 K	173 lm/W	25,000 lm	Wide beam
911401529545	BY698P G5 LED250/NW PSU NB GM	4000 K	173 lm/W	25,000 lm	Narrow beam
911401529645	BY698P G5 LED250/CW PSU WB GM	6500 K	173 lm/W	25,000 lm	Wide beam
911401529745	BY698P G5 LED250/CW PSU NB GM	6500 K	173 lm/W	25,000 lm	Narrow beam
911401529845	BY698P G5 LED300/NW PSU WB GM	4000 K	171 lm/W	31,000 lm	Wide beam
911401529945	BY698P G5 LED300/NW PSU NB GM	4000 K	171 lm/W	31,000 lm	Narrow beam
911401530045	BY698P G5 LED300/CW PSU WB GM	6500 K	171 lm/W	31,000 lm	Wide beam
911401530145	BY698P G5 LED300/CW PSU NB GM	6500 K	171 lm/W	31,000 lm	Narrow beam
911401544245	BY698X G5 LED150/NW Connected WB GM	4000 K	174 lm/W	15,000 lm	Wide beam
911401544345	BY698X G5 LED150/NW Connected NB GM	4000 K	174 lm/W	15,000 lm	Narrow beam
911401544445	BY698X G5 LED150/CW Connected WB GM	6500 K	174 lm/W	15,000 lm	Wide beam
911401544545	BY698X G5 LED150/CW Connected NB GM	6500 K	174 lm/W	15,000 lm	Narrow beam

Order Code	Full Product Name	Correlated Color	Luminous	Luminous Flux	Optic type
		Temperature (Nom)	Efficacy (rated) (Nom)		
911401544645	BY698X G5 LED200/NW Connected WB GM	4000 K	168 lm/W	20,500 lm	Wide beam
911401544745	BY698X G5 LED200/NW Connected NB GM	4000 K	168 lm/W	20,500 lm	Narrow beam
911401544845	BY698X G5 LED200/CW Connected WB GM	6500 K	168 lm/W	20,500 lm	Wide beam
911401544945	BY698X G5 LED200/CW Connected NB GM	6500 K	168 lm/W	20,500 lm	Narrow beam
911401545045	BY698X G5 LED250/NW Connected WB GM	4000 K	170 lm/W	25,000 lm	Wide beam
911401545145	BY698X G5 LED250/NW Connected NB GM	4000 K	170 lm/W	25,000 lm	Narrow beam
911401545245	BY698X G5 LED250/CW Connected WB GM	6500 K	170 lm/W	25,000 lm	Wide beam
911401545345	BY698X G5 LED250/CW Connected NB GM	6500 K	170 lm/W	25,000 lm	Narrow beam
911401545445	BY698X G5 LED300/NW Connected WB GM	4000 K	170 lm/W	31,000 lm	Wide beam
911401545545	BY698X G5 LED300/NW Connected NB GM	4000 K	170 lm/W	31,000 lm	Narrow beam
911401545645	BY698X G5 LED300/CW Connected WB GM	6500 K	170 lm/W	31,000 lm	Wide beam
911401545745	BY698X G5 LED300/CW Connected NB GM	6500 K	170 lm/W	31,000 lm	Narrow beam

Operating and Electrical

Order Code	Full Product Name	Power Consumption	Order Code	Full Product Name	Power Consumption
911401528245	BY698P G5 LED105/NW PSU WB GM	63 W	911401530045	BY698P G5 LED300/CW PSU WB GM	181 W
911401528345	BY698P G5 LED105/NW PSU NB GM	63 W	911401530145	BY698P G5 LED300/CW PSU NB GM	181 W
911401528445	BY698P G5 LED105/CW PSU WB GM	63 W	911401544245	BY698X G5 LED150/NW Connected WB GM	86 W
911401528545	BY698P G5 LED105/CW PSU NB GM	63 W	911401544345	BY698X G5 LED150/NW Connected NB GM	86 W
911401528645	BY698P G5 LED150/NW PSU WB GM	88 W	911401544445	BY698X G5 LED150/CW Connected WB GM	86 W
911401528745	BY698P G5 LED150/NW PSU NB GM	88 W	911401544545	BY698X G5 LED150/CW Connected NB GM	86 W
911401528845	BY698P G5 LED150/CW PSU WB GM	88 W	911401544645	BY698X G5 LED200/NW Connected WB GM	122 W
911401528945	BY698P G5 LED150/CW PSU NB GM	88 W	911401544745	BY698X G5 LED200/NW Connected NB GM	122 W
911401529045	BY698P G5 LED200/NW PSU WB GM	121 W	911401544845	BY698X G5 LED200/CW Connected WB GM	122 W
911401529145	BY698P G5 LED200/NW PSU NB GM	121 W	911401544945	BY698X G5 LED200/CW Connected NB GM	122 W
911401529245	BY698P G5 LED200/CW PSU WB GM	121 W	911401545045	BY698X G5 LED250/NW Connected WB GM	147 W
911401529345	BY698P G5 LED200/CW PSU NB GM	121 W	911401545145	BY698X G5 LED250/NW Connected NB GM	147 W
911401529445	BY698P G5 LED250/NW PSU WB GM	144 W	911401545245	BY698X G5 LED250/CW Connected WB GM	147 W
911401529545	BY698P G5 LED250/NW PSU NB GM	144 W	911401545345	BY698X G5 LED250/CW Connected NB GM	147 W
911401529645	BY698P G5 LED250/CW PSU WB GM	144 W	911401545445	BY698X G5 LED300/NW Connected WB GM	182 W
911401529745	BY698P G5 LED250/CW PSU NB GM	144 W	911401545545	BY698X G5 LED300/NW Connected NB GM	182 W
911401529845	BY698P G5 LED300/NW PSU WB GM	181 W	911401545645	BY698X G5 LED300/CW Connected WB GM	182 W
911401529945	BY698P G5 LED300/NW PSU NB GM	181 W	911401545745	BY698X G5 LED300/CW Connected NB GM	182 W

Controls and Dimming

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Order Code	Full Product Name	Maximum dim level
911401528245	BY698P G5 LED105/NW PSU WB GM	Not applicable
911401528345	BY698P G5 LED105/NW PSU NB GM	Not applicable
911401528445	BY698P G5 LED105/CW PSU WB GM	Not applicable
911401528545	BY698P G5 LED105/CW PSU NB GM	Not applicable
911401528645	BY698P G5 LED150/NW PSU WB GM	Not applicable
911401528745	BY698P G5 LED150/NW PSU NB GM	Not applicable
911401528845	BY698P G5 LED150/CW PSU WB GM	Not applicable
911401528945	BY698P G5 LED150/CW PSU NB GM	Not applicable
911401529045	BY698P G5 LED200/NW PSU WB GM	Not applicable
911401529145	BY698P G5 LED200/NW PSU NB GM	Not applicable
911401529245	BY698P G5 LED200/CW PSU WB GM	Not applicable
911401529345	BY698P G5 LED200/CW PSU NB GM	Not applicable
911401529445	BY698P G5 LED250/NW PSU WB GM	Not applicable
911401529545	BY698P G5 LED250/NW PSU NB GM	Not applicable
911401529645	BY698P G5 LED250/CW PSU WB GM	Not applicable
911401529745	BY698P G5 LED250/CW PSU NB GM	Not applicable
911401529845	BY698P G5 LED300/NW PSU WB GM	Not applicable
911401529945	BY698P G5 LED300/NW PSU NB GM	Not applicable

Order Code	Full Product Name	Maximum dim level
911401530045	BY698P G5 LED300/CW PSU WB GM	Not applicable
911401530145	BY698P G5 LED300/CW PSU NB GM	Not applicable
911401544245	BY698X G5 LED150/NW Connected WB GM	3%
911401544345	BY698X G5 LED150/NW Connected NB GM	3%
911401544445	BY698X G5 LED150/CW Connected WB GM	3%
911401544545	BY698X G5 LED150/CW Connected NB GM	3%
911401544645	BY698X G5 LED200/NW Connected WB GM	1%
911401544745	BY698X G5 LED200/NW Connected NB GM	1%
911401544845	BY698X G5 LED200/CW Connected WB GM	1%
911401544945	BY698X G5 LED200/CW Connected NB GM	1%
911401545045	BY698X G5 LED250/NW Connected WB GM	3%
911401545145	BY698X G5 LED250/NW Connected NB GM	3%
911401545245	BY698X G5 LED250/CW Connected WB GM	3%
911401545345	BY698X G5 LED250/CW Connected NB GM	3%
911401545445	BY698X G5 LED300/NW Connected WB GM	3%
911401545545	BY698X G5 LED300/NW Connected NB GM	3%
911401545645	BY698X G5 LED300/CW Connected WB GM	3%
911401545745	BY698X G5 LED300/CW Connected NB GM	3%

Mechanical and Housing

Order Code	Full Product Name	Mech. impact protection code
911401528245	BY698P G5 LED105/NW PSU WB GM	IK08
911401528345	BY698P G5 LED105/NW PSU NB GM	IK08
911401528445	BY698P G5 LED105/CW PSU WB GM	IK08
911401528545	BY698P G5 LED105/CW PSU NB GM	IK08
911401528645	BY698P G5 LED150/NW PSU WB GM	IK08
911401528745	BY698P G5 LED150/NW PSU NB GM	IK08
911401528845	BY698P G5 LED150/CW PSU WB GM	IK08
911401528945	BY698P G5 LED150/CW PSU NB GM	IK08
911401529045	BY698P G5 LED200/NW PSU WB GM	IK08
911401529145	BY698P G5 LED200/NW PSU NB GM	IK08
911401529245	BY698P G5 LED200/CW PSU WB GM	IK08
911401529345	BY698P G5 LED200/CW PSU NB GM	IK08
911401529445	BY698P G5 LED250/NW PSU WB GM	IK08
911401529545	BY698P G5 LED250/NW PSU NB GM	IK08
911401529645	BY698P G5 LED250/CW PSU WB GM	IK08
911401529745	BY698P G5 LED250/CW PSU NB GM	IK08
911401529845	BY698P G5 LED300/NW PSU WB GM	IK08
911401529945	BY698P G5 LED300/NW PSU NB GM	IK08

Order Code	Full Product Name	Mech. impact protection code
911401530045	BY698P G5 LED300/CW PSU WB GM	IK08
911401530145	BY698P G5 LED300/CW PSU NB GM	IK08
911401544245	BY698X G5 LED150/NW Connected WB GM	IK05
911401544345	BY698X G5 LED150/NW Connected NB GM	IK05
911401544445	BY698X G5 LED150/CW Connected WB GM	IK05
911401544545	BY698X G5 LED150/CW Connected NB GM	IK05
911401544645	BY698X G5 LED200/NW Connected WB GM	IK05
911401544745	BY698X G5 LED200/NW Connected NB GM	IK05
911401544845	BY698X G5 LED200/CW Connected WB GM	IK05
911401544945	BY698X G5 LED200/CW Connected NB GM	IK05
911401545045	BY698X G5 LED250/NW Connected WB GM	IK05
911401545145	BY698X G5 LED250/NW Connected NB GM	IK05
911401545245	BY698X G5 LED250/CW Connected WB GM	IK05
911401545345	BY698X G5 LED250/CW Connected NB GM	IK05
911401545445	BY698X G5 LED300/NW Connected WB GM	IK05
911401545545	BY698X G5 LED300/NW Connected NB GM	IK05
911401545645	BY698X G5 LED300/CW Connected WB GM	IK05
911401545745	BY698X G5 LED300/CW Connected NB GM	IK05

Initial Performance (IEC Compliant)

Order Code	Full Product Name	Initial chromaticity
911401528245	BY698P G5 LED105/NW PSU WB GM	(0.386, 0.384) SDCM<5
911401528345	BY698P G5 LED105/NW PSU NB GM	(0.386, 0.384) SDCM<5
911401528445	BY698P G5 LED105/CW PSU WB GM	(0.317, 0.338) SDCM<5
911401528545	BY698P G5 LED105/CW PSU NB GM	(0.317, 0.338) SDCM<5
911401528645	BY698P G5 LED150/NW PSU WB GM	(0.386, 0.384) SDCM<5
911401528745	BY698P G5 LED150/NW PSU NB GM	(0.386, 0.384) SDCM<5

Order Code	Full Product Name	Initial chromaticity
911401528845	BY698P G5 LED150/CW PSU WB GM	(0.317, 0.338) SDCM<5
911401528945	BY698P G5 LED150/CW PSU NB GM	(0.317, 0.338) SDCM<5
911401529045	BY698P G5 LED200/NW PSU WB GM	(0.386, 0.384) SDCM<5
911401529145	BY698P G5 LED200/NW PSU NB GM	(0.386, 0.384) SDCM<5
911401529245	BY698P G5 LED200/CW PSU WB GM	(0.317, 0.338) SDCM<5
911401529345	BY698P G5 LED200/CW PSU NB GM	(0.317, 0.338) SDCM<5

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Order Code	Full Product Name	Initial chromaticity
911401529445	BY698P G5 LED250/NW PSU WB GM	(0.386, 0.384) SDCM<5
911401529545	BY698P G5 LED250/NW PSU NB GM	(0.386, 0.384) SDCM<5
911401529645	BY698P G5 LED250/CW PSU WB GM	(0.317, 0.338) SDCM<5
911401529745	BY698P G5 LED250/CW PSU NB GM	(0.317, 0.338) SDCM<5
911401529845	BY698P G5 LED300/NW PSU WB GM	(0.386, 0.384) SDCM<5
911401529945	BY698P G5 LED300/NW PSU NB GM	(0.386, 0.384) SDCM<5
911401530045	BY698P G5 LED300/CW PSU WB GM	(0.317, 0.338) SDCM<5
911401530145	BY698P G5 LED300/CW PSU NB GM	(0.317, 0.338) SDCM<5
911401544245	BY698X G5 LED150/NW Connected WB GM	(0.386, 0.384) SDCM<5
911401544345	BY698X G5 LED150/NW Connected NB GM	(0.386, 0.384) SDCM<5
911401544445	BY698X G5 LED150/CW Connected WB GM	(0.317, 0.338) SDCM<5
911401544545	BY698X G5 LED150/CW Connected NB GM	(0.317, 0.338) SDCM<5

Order Code	Full Product Name	Initial chromaticity
911401544645	BY698X G5 LED200/NW Connected WB GM	(0.386, 0.384) SDCM<5
911401544745	BY698X G5 LED200/NW Connected NB GM	(0.386, 0.384) SDCM<5
911401544845	BY698X G5 LED200/CW Connected WB GM	(0.317, 0.338) SDCM<5
911401544945	BY698X G5 LED200/CW Connected NB GM	(0.317, 0.338) SDCM<5
911401545045	BY698X G5 LED250/NW Connected WB GM	(0.386, 0.384) SDCM<5
911401545145	BY698X G5 LED250/NW Connected NB GM	(0.386, 0.384) SDCM<5
911401545245	BY698X G5 LED250/CW Connected WB GM	(0.317, 0.338) SDCM<5
911401545345	BY698X G5 LED250/CW Connected NB GM	(0.317, 0.338) SDCM<5
911401545445	BY698X G5 LED300/NW Connected WB GM	(0.386, 0.384) SDCM<5
911401545545	BY698X G5 LED300/NW Connected NB GM	(0.386, 0.384) SDCM<5
911401545645	BY698X G5 LED300/CW Connected WB GM	(0.317, 0.338) SDCM<5
911401545745	BY698X G5 LED300/CW Connected NB GM	(0.317, 0.338) SDCM<5

