



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

- 160 lm/W system efficacy
- 75,000 hours 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

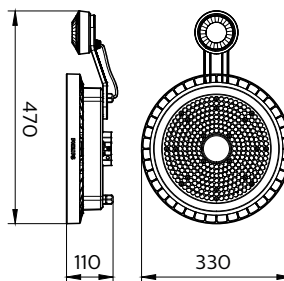
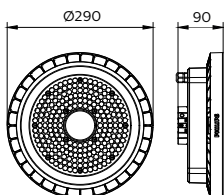
- Manufacturing
- Warehouses
- Logistic center
- Exhibition hall

Specifications

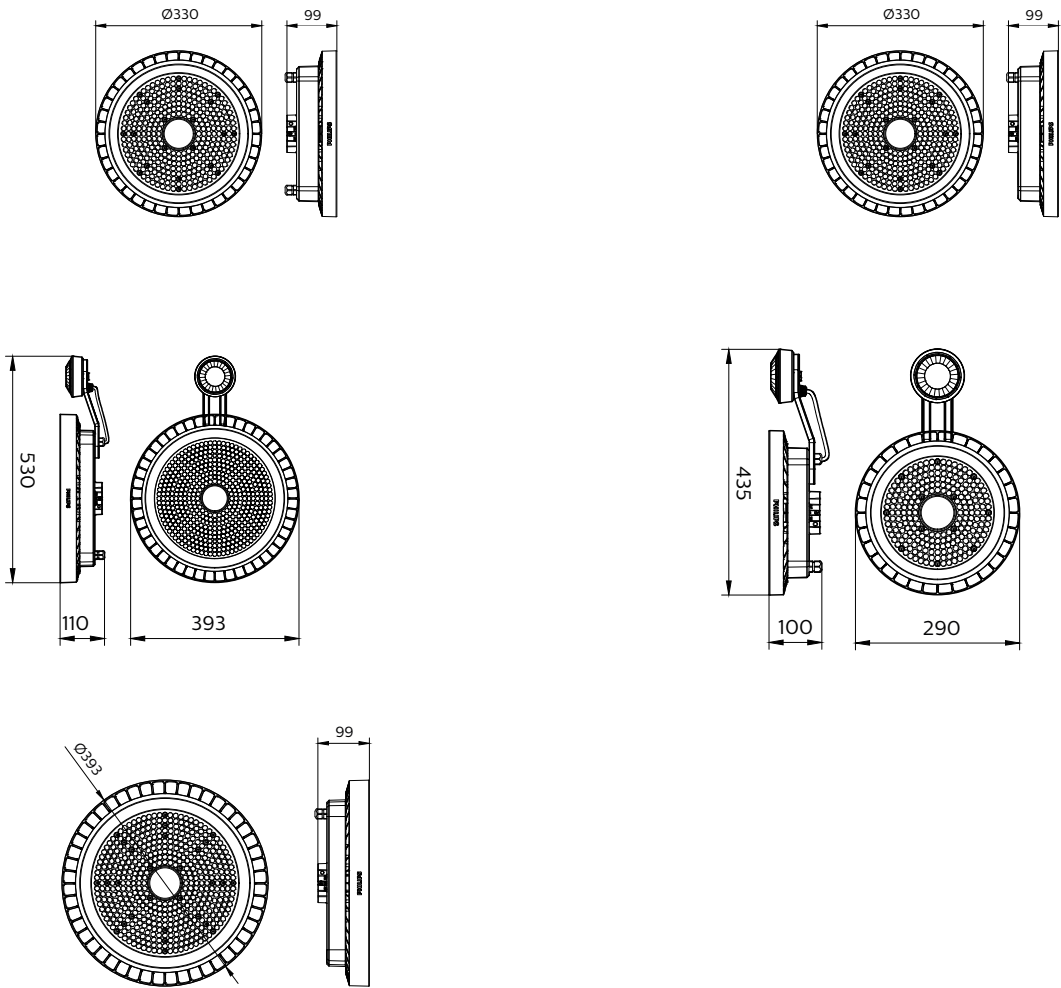
Mounting type	Suspended
	Pipe
	Surface
Operating Temperature range	-30 to +50 °C
Light Source	LED
Mains Voltage	220-240V / 50-60Hz
Mains connection	Flying cable
Mechanical Accessories	Hook for suspension
	Mounting bracket for surface
Dimming	PSU: non-dimmable
	PSD: Dimmable via Dali-broadcasting
	Connected: 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



Dimensional drawing



GreenPerform Highbay G5

General Information	
CE mark	CE mark
Light Technical	
Optical cover type	Lens
Operating and Electrical	
Input Voltage	220 to 240 V
Line Frequency	50 or 60 Hz
Approval and Application	
Protection class IEC	Safety class I
Mech. impact protection code	IK08
Initial Performance (IEC Compliant)	
Luminous flux tolerance	+/-10%

General Information

Order Code	Full Product Name	Flammability mark
911401509891	BY698P G5 LED200/NW PSU WB GM	-
911401509991	BY698P G5 LED200/NW PSU NB GM	-
911401510091	BY698P G5 LED200/CW PSU WB GM	-
911401510191	BY698P G5 LED200/CW PSU NB GM	-
911401518591	BY698P G5 LED105/NW PSD WB GM	-
911401518691	BY698P G5 LED105/NW PSD NB GM	-
911401518991	BY698P G5 LED150/NW PSD WB GM	-
911401519091	BY698P G5 LED150/NW PSD NB GM	-
911401519391	BY698P G5 LED200/NW PSD WB GM	-
911401519491	BY698P G5 LED200/NW PSD NB GM	-
911401519591	BY698P G5 LED200/CW PSD WB GM	-
911401546502	BY698X G5 LED105/NW L1 W WB GM	For mounting on normally flammable surfaces
911401546902	BY698X G5 LED200/NW L1 W WB GM	For mounting on normally flammable surfaces
911401547302	BY698X G5 LED300/NW L1 W WB GM	For mounting on normally flammable surfaces

Order Code	Full Product Name	Flammability mark
911401548002	BY698X G5 LED105/NW L1 W WB GM L3m	For mounting on normally flammable surfaces
911401548302	BY698X G5 LED150/CW L1 W WB GM L3m	For mounting on normally flammable surfaces
911401509091	BY698P G5 LED105/NW PSU WB GM	-
911401509291	BY698P G5 LED105/CW PSU WB GM	-
911401509391	BY698P G5 LED105/CW PSU NB GM	-
911401509491	BY698P G5 LED150/NW PSU WB GM	-
911401509591	BY698P G5 LED150/NW PSU NB GM	-
911401509691	BY698P G5 LED150/CW PSU WB GM	-
911401509791	BY698P G5 LED150/CW PSU NB GM	-
911401569691	BY698P G5 LED150/CW PSU WB GM L3m	-
911401510291	BY698P G5 LED250/NW PSU WB GM	-
911401510491	BY698P G5 LED250/CW PSU WB GM	-
911401533791	BY690P LED250/NW PSU WB GM	-
911401534391	BY690P LED300/CW PSU WB GM	-
911401570491	BY698P G5 LED250/CW PSU WB GM L3m	-

Light Technical

Order Code	Full Product Name	Correlated Color Temperature	Color rendering index	Luminous Efficacy (rated)	Luminous Flux
		(Nom)	(CRI)	(Nom)	
911401509891	BY698P G5 LED200/NW PSU WB GM	4000 K	80	160 lm/W	20,000 lm
911401509991	BY698P G5 LED200/NW PSU NB GM	4000 K	80	160 lm/W	20,000 lm

Order Code	Full Product Name	Correlated Color Temperature	Color rendering index	Luminous Efficacy (rated)	Luminous Flux
		(Nom)	(CRI)	(Nom)	
911401510091	BY698P G5 LED200/CW PSU WB GM	6500 K	80	160 lm/W	20,000 lm
911401510191	BY698P G5 LED200/CW PSU NB GM	6500 K	80	160 lm/W	20,000 lm

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Order Code	Full Product Name	Correlated Color Temperature (Nom)	Color rendering index (CRI)	Luminous Efficacy (rated) (Nom)	Luminous Flux
911401518591	BY698P G5 LED105/NW PSD WB GM	4000 K	80	150 lm/W	10,500 lm
911401518691	BY698P G5 LED105/NW PSD NB GM	4000 K	80	150 lm/W	10,500 lm
911401518991	BY698P G5 LED150/NW PSD WB GM	4000 K	80	150 lm/W	15,000 lm
911401519091	BY698P G5 LED150/NW PSD NB GM	4000 K	80	150 lm/W	15,000 lm
911401519391	BY698P G5 LED200/NW PSD WB GM	4000 K	80	150 lm/W	20,000 lm
911401519491	BY698P G5 LED200/NW PSD NB GM	4000 K	80	150 lm/W	20,000 lm
911401519591	BY698P G5 LED200/CW PSD WB GM	6500 K	80	150 lm/W	20,000 lm
911401546502	BY698X G5 LED105/NW L1 W WB GM	4000 K	>80	160 lm/W	10,500 lm
911401546902	BY698X G5 LED200/NW L1 W WB GM	4000 K	>80	160 lm/W	20,000 lm
911401547302	BY698X G5 LED300/NW L1 W WB GM	4000 K	>80	160 lm/W	30,000 lm
911401548002	BY698X G5 LED105/NW L1 W WB GM L3m	4000 K	>80	160 lm/W	10,500 lm
911401548302	BY698X G5 LED150/CW L1 W WB GM L3m	6500 K	>80	160 lm/W	15,000 lm
911401509091	BY698P G5 LED105/NW PSU WB GM	4000 K	80	160 lm/W	10,500 lm

Operating and Electrical

Order Code	Full Product Name	Power Consumption
911401509891	BY698P G5 LED200/NW PSU WB GM	126 W
911401509991	BY698P G5 LED200/NW PSU NB GM	126 W
911401510091	BY698P G5 LED200/CW PSU WB GM	126 W
911401510191	BY698P G5 LED200/CW PSU NB GM	126 W
911401518591	BY698P G5 LED105/NW PSD WB GM	72 W
911401518691	BY698P G5 LED105/NW PSD NB GM	72 W

Order Code	Full Product Name	Correlated Color Temperature (Nom)	Color rendering index (CRI)	Luminous Efficacy (rated) (Nom)	Luminous Flux
911401509291	BY698P G5 LED105/CW PSU WB GM	6500 K	80	160 lm/W	10,500 lm
911401509391	BY698P G5 LED105/CW PSU NB GM	6500 K	80	160 lm/W	10,500 lm
911401509491	BY698P G5 LED150/NW PSU WB GM	4000 K	80	160 lm/W	15,000 lm
911401509591	BY698P G5 LED150/NW PSU NB GM	4000 K	80	160 lm/W	15,000 lm
911401509691	BY698P G5 LED150/CW PSU WB GM	6500 K	80	160 lm/W	15,000 lm
911401509791	BY698P G5 LED150/CW PSU NB GM	6500 K	80	160 lm/W	15,000 lm
911401569691	BY698P G5 LED150/CW PSU WB GM L3m	6500 K	80	160 lm/W	15,000 lm
911401510291	BY698P G5 LED250/NW PSU WB GM	4000 K	80	160 lm/W	25,000 lm
911401510491	BY698P G5 LED250/CW PSU WB GM	6500 K	80	160 lm/W	25,000 lm
911401533791	BY690P LED250/NW PSU WB GM	4000 K	>80	160 lm/W	25,000 lm
911401534391	BY690P LED300/CW PSU WB GM	6500 K	>80	160 lm/W	30,000 lm
911401570491	BY698P G5 LED250/CW PSU WB GM L3m	6500 K	80	160 lm/W	25,000 lm

Order Code	Full Product Name	Power Consumption
911401518991	BY698P G5 LED150/NW PSD WB GM	102 W
911401519091	BY698P G5 LED150/NW PSD NB GM	102 W
911401519391	BY698P G5 LED200/NW PSD WB GM	134 W
911401519491	BY698P G5 LED200/NW PSD NB GM	134 W
911401519591	BY698P G5 LED200/CW PSD WB GM	134 W
911401546502	BY698X G5 LED105/NW L1 W WB GM	67 W

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Order Code	Full Product Name	Power Consumption
911401546902	BY698X G5 LED200/NW L1 W WB GM	126 W
911401547302	BY698X G5 LED300/NW L1 W WB GM	192 W
911401548002	BY698X G5 LED105/NW L1 W WB GM L3m	67 W
911401548302	BY698X G5 LED150/CW L1 W WB GM L3m	95 W
911401509091	BY698P G5 LED105/NW PSU WB GM	67 W
911401509291	BY698P G5 LED105/CW PSU WB GM	67 W
911401509391	BY698P G5 LED105/CW PSU NB GM	67 W
911401509491	BY698P G5 LED150/NW PSU WB GM	95 W
911401509591	BY698P G5 LED150/NW PSU NB GM	95 W

Temperature

Order Code	Full Product Name	Ambient temperature range
911401509891	BY698P G5 LED200/NW PSU WB GM	-30 to +50 °C
911401509991	BY698P G5 LED200/NW PSU NB GM	-30 to +50 °C
911401510091	BY698P G5 LED200/CW PSU WB GM	-30 to +50 °C
911401510191	BY698P G5 LED200/CW PSU NB GM	-30 to +50 °C
911401518591	BY698P G5 LED105/NW PSD WB GM	-30 to +50 °C
911401518691	BY698P G5 LED105/NW PSD NB GM	-30 to +50 °C
911401518991	BY698P G5 LED150/NW PSD WB GM	-30 to +50 °C
911401519091	BY698P G5 LED150/NW PSD NB GM	-30 to +50 °C
911401519391	BY698P G5 LED200/NW PSD WB GM	-30 to +50 °C
911401519491	BY698P G5 LED200/NW PSD NB GM	-30 to +50 °C
911401519591	BY698P G5 LED200/CW PSD WB GM	-30 to +50 °C
911401546502	BY698X G5 LED105/NW L1 W WB GM	-30 to +50 °C
911401546902	BY698X G5 LED200/NW L1 W WB GM	-30 to +50 °C
911401547302	BY698X G5 LED300/NW L1 W WB GM	-30 to +50 °C
911401548002	BY698X G5 LED105/NW L1 W WB GM L3m	-30 to +50 °C

Controls and Dimming

Order Code	Full Product Name	Dimmable
911401509891	BY698P G5 LED200/NW PSU WB GM	No
911401509991	BY698P G5 LED200/NW PSU NB GM	No
911401510091	BY698P G5 LED200/CW PSU WB GM	No
911401510191	BY698P G5 LED200/CW PSU NB GM	No
911401518591	BY698P G5 LED105/NW PSD WB GM	Yes
911401518691	BY698P G5 LED105/NW PSD NB GM	Yes
911401518991	BY698P G5 LED150/NW PSD WB GM	Yes
911401519091	BY698P G5 LED150/NW PSD NB GM	Yes
911401519391	BY698P G5 LED200/NW PSD WB GM	Yes
911401519491	BY698P G5 LED200/NW PSD NB GM	Yes
911401519591	BY698P G5 LED200/CW PSD WB GM	Yes
911401546502	BY698X G5 LED105/NW L1 W WB GM	Yes
911401546902	BY698X G5 LED200/NW L1 W WB GM	Yes
911401547302	BY698X G5 LED300/NW L1 W WB GM	Yes
911401548002	BY698X G5 LED105/NW L1 W WB GM L3m	Wireless Dim

Mechanical and Housing

Order Code	Full Product Name	Power Consumption
911401509691	BY698P G5 LED150/CW PSU WB GM	95 W
911401509791	BY698P G5 LED150/CW PSU NB GM	95 W
911401569691	BY698P G5 LED150/CW PSU WB GM L3m	95 W
911401510291	BY698P G5 LED250/NW PSU WB GM	157 W
911401510491	BY698P G5 LED250/CW PSU WB GM	157 W
911401533791	BY690P LED250/NW PSU WB GM	157 W
911401534391	BY690P LED300/CW PSU WB GM	192 W
911401570491	BY698P G5 LED250/CW PSU WB GM L3m	157 W

Order Code	Full Product Name	Ambient temperature range
911401548302	BY698X G5 LED150/CW L1 W WB GM L3m	-30 to +50 °C
911401509091	BY698P G5 LED105/NW PSU WB GM	-30 to +50 °C
911401509291	BY698P G5 LED105/CW PSU WB GM	-30 to +50 °C
911401509391	BY698P G5 LED105/CW PSU NB GM	-30 to +50 °C
911401509491	BY698P G5 LED150/NW PSU WB GM	-30 to +50 °C
911401509591	BY698P G5 LED150/NW PSU NB GM	-30 to +50 °C
911401509691	BY698P G5 LED150/CW PSU WB GM	-30 to +50 °C
911401509791	BY698P G5 LED150/CW PSU NB GM	-30 to +50 °C
911401569691	BY698P G5 LED150/CW PSU WB GM L3m	-30 to +50 °C
911401510291	BY698P G5 LED250/NW PSU WB GM	-30 to +50 °C
911401510491	BY698P G5 LED250/CW PSU WB GM	-30 to +50 °C
911401533791	BY690P LED250/NW PSU WB GM	-40 to +50 °C
911401534391	BY690P LED300/CW PSU WB GM	-40 to +50 °C
911401570491	BY698P G5 LED250/CW PSU WB GM L3m	-30 to +50 °C

Order Code	Full Product Name	Dimmable
911401548302	BY698X G5 LED150/CW L1 W WB GM L3m	Wireless Dim
911401509091	BY698P G5 LED105/NW PSU WB GM	No
911401509291	BY698P G5 LED105/CW PSU WB GM	No
911401509391	BY698P G5 LED105/CW PSU NB GM	No
911401509491	BY698P G5 LED150/NW PSU WB GM	No
911401509591	BY698P G5 LED150/NW PSU NB GM	No
911401509691	BY698P G5 LED150/CW PSU WB GM	No
911401509791	BY698P G5 LED150/CW PSU NB GM	No
911401569691	BY698P G5 LED150/CW PSU WB GM L3m	No
911401510291	BY698P G5 LED250/NW PSU WB GM	No
911401510491	BY698P G5 LED250/CW PSU WB GM	No
911401533791	BY690P LED250/NW PSU WB GM	No
911401534391	BY690P LED300/CW PSU WB GM	No
911401570491	BY698P G5 LED250/CW PSU WB GM L3m	No

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Order Code	Full Product Name	Housing Color
911401509891	BY698P G5 LED200/NW PSU WB GM	Dark gray
911401509991	BY698P G5 LED200/NW PSU NB GM	Dark gray
911401510091	BY698P G5 LED200/CW PSU WB GM	Dark gray
911401510191	BY698P G5 LED200/CW PSU NB GM	Dark gray
911401518591	BY698P G5 LED105/NW PSD WB GM	Dark gray
911401518691	BY698P G5 LED105/NW PSD NB GM	Dark gray
911401518991	BY698P G5 LED150/NW PSD WB GM	Dark gray
911401519091	BY698P G5 LED150/NW PSD NB GM	Dark gray
911401519391	BY698P G5 LED200/NW PSD WB GM	Dark gray
911401519491	BY698P G5 LED200/NW PSD NB GM	Dark gray
911401519591	BY698P G5 LED200/CW PSD WB GM	Dark gray
911401546502	BY698X G5 LED105/NW L1 W WB GM	Gray
911401546902	BY698X G5 LED200/NW L1 W WB GM	Gray
911401547302	BY698X G5 LED300/NW L1 W WB GM	Gray
911401548002	BY698X G5 LED105/NW L1 W WB GM L3m	Gray

Approval and Application

Order Code	Full Product Name	Ingress protection code
911401509891	BY698P G5 LED200/NW PSU WB GM	IP65
911401509991	BY698P G5 LED200/NW PSU NB GM	IP65
911401510091	BY698P G5 LED200/CW PSU WB GM	IP65
911401510191	BY698P G5 LED200/CW PSU NB GM	IP65
911401518591	BY698P G5 LED105/NW PSD WB GM	IP65
911401518691	BY698P G5 LED105/NW PSD NB GM	IP65
911401518991	BY698P G5 LED150/NW PSD WB GM	IP65
911401519091	BY698P G5 LED150/NW PSD NB GM	IP65
911401519391	BY698P G5 LED200/NW PSD WB GM	IP65
911401519491	BY698P G5 LED200/NW PSD NB GM	IP65
911401519591	BY698P G5 LED200/CW PSD WB GM	IP65
911401546502	BY698X G5 LED105/NW L1 W WB GM	IP65
911401546902	BY698X G5 LED200/NW L1 W WB GM	IP65
911401547302	BY698X G5 LED300/NW L1 W WB GM	IP65
911401548002	BY698X G5 LED105/NW L1 W WB GM L3m	IP65

Initial Performance (IEC Compliant)

Order Code	Full Product Name	Initial chromaticity
911401509891	BY698P G5 LED200/NW PSU WB GM	(0.385, 0.380) SDCM<5
911401509991	BY698P G5 LED200/NW PSU NB GM	(0.385, 0.380) SDCM<5
911401510091	BY698P G5 LED200/CW PSU WB GM	(0.316, 0.332) SDCM<5
911401510191	BY698P G5 LED200/CW PSU NB GM	(0.316, 0.332) SDCM<5
911401518591	BY698P G5 LED105/NW PSD WB GM	(0.385, 0.380) SDCM<5
911401518691	BY698P G5 LED105/NW PSD NB GM	(0.385, 0.380) SDCM<5
911401518991	BY698P G5 LED150/NW PSD WB GM	(0.385, 0.380) SDCM<5
911401519091	BY698P G5 LED150/NW PSD NB GM	(0.385, 0.380) SDCM<5
911401519391	BY698P G5 LED200/NW PSD WB GM	(0.385, 0.380) SDCM<5
911401519491	BY698P G5 LED200/NW PSD NB GM	(0.385, 0.380) SDCM<5
911401519591	BY698P G5 LED200/CW PSD WB GM	(0.316, 0.332) SDCM<5
911401546502	BY698X G5 LED105/NW L1 W WB GM	(0.385, 0.380) SDCM<5
911401546902	BY698X G5 LED200/NW L1 W WB GM	(0.385, 0.380) SDCM<5

Order Code	Full Product Name	Housing Color
911401548302	BY698X G5 LED150/CW L1 W WB GM L3m	Gray
911401509091	BY698P G5 LED105/NW PSU WB GM	Dark gray
911401509291	BY698P G5 LED105/CW PSU WB GM	Dark gray
911401509391	BY698P G5 LED105/CW PSU NB GM	Dark gray
911401509491	BY698P G5 LED150/NW PSU WB GM	Dark gray
911401509591	BY698P G5 LED150/NW PSU NB GM	Dark gray
911401509691	BY698P G5 LED150/CW PSU WB GM	Dark gray
911401509791	BY698P G5 LED150/CW PSU NB GM	Dark gray
911401569691	BY698P G5 LED150/CW PSU WB GM L3m	Dark gray
911401510291	BY698P G5 LED250/NW PSU WB GM	Dark gray
911401510491	BY698P G5 LED250/CW PSU WB GM	Dark gray
911401533791	BY690P LED250/NW PSU WB GM	Dark gray
911401534391	BY690P LED300/CW PSU WB GM	Dark gray
911401570491	BY698P G5 LED250/CW PSU WB GM L3m	Dark gray

Order Code	Full Product Name	Ingress protection code
911401548302	BY698X G5 LED150/CW L1 W WB GM L3m	IP65
911401509091	BY698P G5 LED105/NW PSU WB GM	IP65
911401509291	BY698P G5 LED105/CW PSU WB GM	IP65
911401509391	BY698P G5 LED105/CW PSU NB GM	IP65
911401509491	BY698P G5 LED150/NW PSU WB GM	IP65
911401509591	BY698P G5 LED150/NW PSU NB GM	IP65
911401509691	BY698P G5 LED150/CW PSU WB GM	IP65
911401509791	BY698P G5 LED150/CW PSU NB GM	IP65
911401569691	BY698P G5 LED150/CW PSU WB GM L3m	IP65
911401510291	BY698P G5 LED250/NW PSU WB GM	IP65
911401510491	BY698P G5 LED250/CW PSU WB GM	IP65
911401533791	BY690P LED250/NW PSU WB GM	IP66
911401534391	BY690P LED300/CW PSU WB GM	IP66
911401570491	BY698P G5 LED250/CW PSU WB GM L3m	IP65

Order Code	Full Product Name	Initial chromaticity
911401547302	BY698X G5 LED300/NW L1 W WB GM	(0.385, 0.380) SDCM<5
911401548002	BY698X G5 LED105/NW L1 W WB GM L3m	(0.385, 0.380) SDCM<5
911401548302	BY698X G5 LED150/CW L1 W WB GM L3m	(0.316, 0.332) SDCM<5
911401509091	BY698P G5 LED105/NW PSU WB GM	(0.385, 0.380) SDCM<5
911401509291	BY698P G5 LED105/CW PSU WB GM	(0.316, 0.332) SDCM<5
911401509391	BY698P G5 LED105/CW PSU NB GM	(0.316, 0.332) SDCM<5
911401509491	BY698P G5 LED150/NW PSU WB GM	(0.385, 0.380) SDCM<5
911401509591	BY698P G5 LED150/NW PSU NB GM	(0.385, 0.380) SDCM<5
911401509691	BY698P G5 LED150/CW PSU WB GM	(0.316, 0.332) SDCM<5
911401509791	BY698P G5 LED150/CW PSU NB GM	(0.316, 0.332) SDCM<5
911401569691	BY698P G5 LED150/CW PSU WB GM L3m	(0.316, 0.332) SDCM<5
911401510291	BY698P G5 LED250/NW PSU WB GM	(0.385, 0.380) SDCM<5
911401510491	BY698P G5 LED250/CW PSU WB GM	(0.316, 0.332) SDCM<5

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Order Code	Full Product Name	Initial chromaticity
911401533791	BY690P LED250/NW PSU WB GM	(0.385, 0.380) SDCM<5
911401534391	BY690P LED300/CW PSU WB GM	(0.316, 0.332) SDCM<5

Order Code	Full Product Name	Initial chromaticity
911401570491	BY698P G5 LED250/CW PSU WB GM L3m	(0.316, 0.332) SDCM<5

