

PHILIPS

GreenPerform Highbay
G5 Luminaire

BY698P, BY698X



reddot winner 2022
best of the best lighting design



Philips GreenPerform Highbay G5 Luminaire

Series BY698P, BY698X

High-performance, versatile and connected
lighting solutions for professionals

Philips GreenPerform Highbay Luminaire

A versatile LED highbay with optimised performance and future-proof control systems

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. There are also models that support cold room applications without condensation. These are features that make this robust, optimised, and versatile family suitable for almost all industrial applications.



Features



160lm/W system efficacy, excellent energy savings.



50,000 hours (L80B50) hours lifetime @Ta 35°C, ensures long term quality and reliability.



Glare control and uniform illuminance for narrow beam and wide beam optics.



Works seamlessly with the Interact cloud-based IoT software and platform.



Cold room application extension models.

**IP65
IK08**

**50,000
hours
L80B50**

**5
years
warranty**

**Interact
cloud-based
IoT**

Applications



General manufacturing



Warehouses and logistics centres

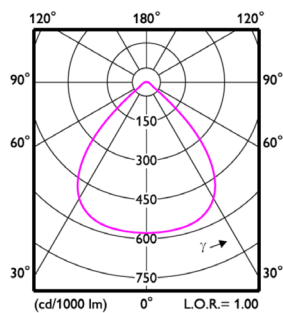


Exhibition halls and cold rooms

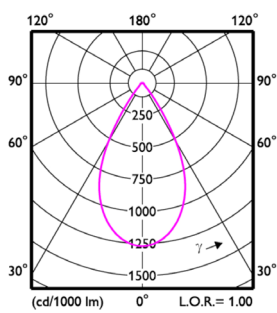
Product data, Fixed Output (PSU)

Model	GreenPerform Highbay G5 BY698P				
Type (BY698P G5 PSU)	LED105	LED150	LED200	LED250	LED300
Lumen Output (typ.)	10500lm	15000lm	20000lm	25000lm	30000lm
System Power (typ.)	67W	95W	126W	157W	192W
Tolerance	-10%/+10%				
System Efficacy (typ.)	160lm/W				
CCT (typ.)	4000K / 5000K				
Colour rendering	CRI80				
Colour consistency	5 SDCM				
IP/IK rating	IP65 / IK08				
Electrical classification	Class I				
Operation Temperature	-30°C to +50°C (Ta35°C)				
Lifetime	50Khrs L80B50 @35°C				
Optics	WB; NB				
UGR (typ.)	UGR 25 (WB); UGR 22 (NB)				
Input Voltage	220-240V, 50/60 Hz				
Power factor	0.95				
Surge protection	4KV/4KV				
THD	<15% (<20% for LED105 PSU)				
Flicker (Max. driver ripple)	<30%				
Mounting / Installation	Suspension (Hook) Optional: Pipe; Bracket				
Warranty	5 years				
Housing Colour	RAL7012				
Diameter (mm)	Φ290	Φ290	Φ330	Φ393	Φ393
Height (mm)	90	90	99	99	99
Weight (KGS)	1.9	1.9	2.6	4.2	4.2
Certification	ASNZS60598 (electrical safety), CISPR15 (EMC), Cert. Of Suitability, RCM				

Photometry



WB (Wide Beam)

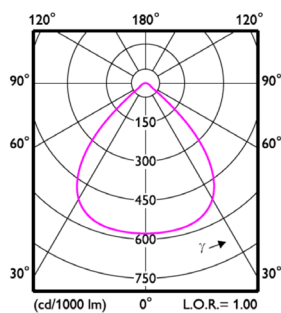


NB (Narrow Beam)

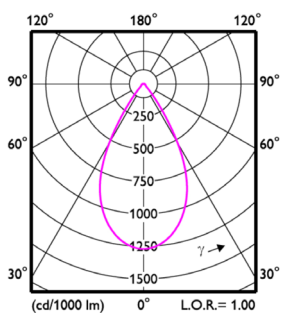
Product data, DALI (PSD)

Model	GreenPerform Highbay G5 BY698P				
Types (BY698P G5 PSD)	LED105	LED150	LED200	LED250	LED300
Lumen Output (typ.)	10500lm	15000lm	20000lm	25000lm	30000lm
System Power (typ.)	72W	102W	134W	168W	205W
Tolerance	-10%/+10%				
System Efficacy (typ.)	150lm/W				
CCT (typ.)	4000K / 5000K				
Colour rendering	CRI80				
Colour consistency	5 SDCM				
IP/IK rating	IP65 / IK08				
Electrical classification	Class I				
Operation Temperature	-30°C to +50°C (Ta35°C)				
Lifetime	50Khrs L80B50 @35°C				
Optics	WB; NB				
UGR (typ.)	UGR 25 (WB); UGR 22 (NB)				
Input Voltage	220-240V, 50/60 Hz				
Power factor	0.95				
Surge protection	4KV/4KV				
THD	<15%				
Flicker (Max. driver ripple)	<3.2%				
Mounting / Installation	Suspension (Hook) Optional: Pipe; Bracket				
Warranty	5 years				
Housing Colour	RAL7012				
Diameter (mm)	Φ330	Φ330	Φ330	Φ393	Φ393
Height (mm)	99	99	99	126	126
Weight (KGS)	3.2	3.2	3.2	6.3	6.3
Certification	ASNZS60598 (electrical safety), CISPR15 (EMC), Cert. Of Suitability, RCM				

Photometry



WB (Wide Beam)

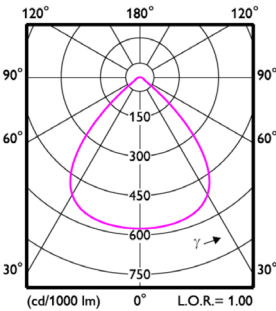


NB (Narrow Beam)

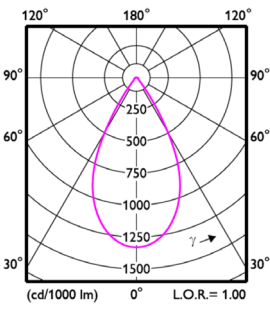
Product data, Interact (Connected)

Model	GreenPerform Highbay G5 BY698X				
Types (BY698P G5 Connected)	LED105 (ETO)	LED150	LED200	LED250	LED300
Lumen Output (typ.)	(10500lm)	15000lm	20000lm	25000lm	30000lm
System Power (typ.)	68W	98W	133W	166W	203W
Tolerance	-10%/+10%				
System Efficacy (typ.)	150lm/W				
CCT (typ.)	4000K / 5000K				
Colour rendering	CRI80				
Colour consistency	5 SDCM				
IP/IK rating	IP65 / IK05				
Electrical classification	Class I				
Operation Temperature	-30°C to +50°C (Ta35°C)				
Lifetime	50Khrs L80B50 @35°C				
Optics	WB; NB				
UGR (typ.)	UGR 25 (WB); UGR 22 (NB)				
Input Voltage	220-240V, 50/60 Hz				
Power factor	0.95				
Surge protection	4KV/4KV				
THD	<15%				
Flicker (Max. driver ripple)	<3.2%				
Mounting / Installation	Suspension (Suspension Kit) Optional: Pipe Nut; Bracket				
Warranty	5 years				
Sensor	SNH210 IA (Integrated)				
Housing Colour	RAL7012				
Diameter (mm)	Φ393	Φ393	Φ393	Φ393	Φ393
Height (mm)	99	99	99	126	126
Weight (KGS)	5.3	5.3	5.3	6.6	6.6
Certification	ASNZS60598 (electrical safety), CISPR15 (EMC), Cert. Of Suitability, RCM				

Photometry



WB (Wide Beam)



NB (Narrow Beam)

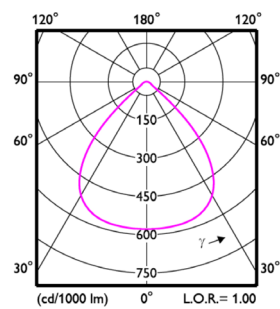
Product data, Cold Room**

Model	GreenPerform Highbay G5 BY698P, BY698X				
Types (BY690P PSU)	LED105	LED150	LED200	LED250	LED300
Lumen Output (typ.)	10500lm	15000lm	20000lm	25000lm	30000lm
System Power (typ.)	67W	95W	126W	157W	192W
Tolerance	-10%/+10%				
System Efficacy (typ.)	160lm/W				
CCT (typ.)	4000K				
Colour rendering	CRI80				
Colour consistency	5 SDCM				
IP/IK rating	IP66 / IK08				
Electrical classification	Class I				
Operation Temperature*	-40°C to +50°C (Ta35°C)				
Operation Humidity	0 to 100%				
Lifetime	50Khrs L80B50 @35°C				
Optics	WB; NB				
UGR (typ.)	UGR 25 (WB); UGR 22 (NB)				
Input Voltage	220-240V, 50/60 Hz				
Power factor	0.95				
Surge protection	4KV/4KV				
THD	<15% (<20% for LED105 PSU)				
Flicker (Max. driver ripple)	<30%				
Mounting / Installation	Suspension (Hook)				
Warranty	5 years				
Housing Colour	RAL7012				
Diameter (mm)	Φ290	Φ290	Φ330	Φ393	Φ393
Height (mm)	90	90	99	99	99
Weight (KGS)	1.9	1.9	2.6	4.2	4.2
Certification	ASNZS60598 (electrical safety), CISPR15 (EMC), Cert. Of Suitability, RCM				

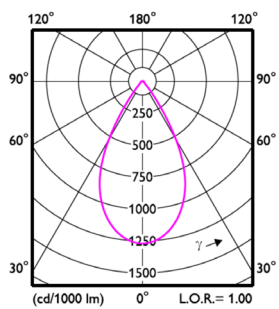
* Regular maintenance (long time light-on) is recommended. Follow mounting instructions for guidance.

**See your Key Account Manager for details re. Cold Room models.

Photometry



WB (Wide Beam)



NB (Narrow Beam)

Order Information

12NC	Specification	Description
911401513291	BY698P G5 LED200/840 PSU WB CAU	GreenPerform Highbay, BY698P, 20000lm, 126W, CRI80, 4000K, neutral white, fixed output, Wide Beam, IP65, flex&plug.
911401513491	BY698P G5 LED200/850 PSU WB CAU	GreenPerform Highbay, BY698P, 20000lm, 126W, CRI80, 5000K, cool white, fixed output, Wide Beam, IP65, flex&plug.
911401513891	BY698P G5 LED250/840 PSU WB CAU	GreenPerform Highbay, BY698P, 25000lm, 157W, CRI80, 4000K, neutral white, fixed output, Wide Beam, IP65, flex&plug.
911401514091	BY698P G5 LED250/850 PSU WB CAU	GreenPerform Highbay, BY698P, 25000lm, 157W, CRI80, 5000K, cool white, fixed output, Wide Beam, IP65, flex&plug.
911401514491	BY698P G5 LED300/840 PSU WB CAU	GreenPerform Highbay, BY698P, 30000lm, 192W, CRI80, 4000K, neutral white, fixed output, Wide Beam, IP65, flex&plug.
911401514691	BY698P G5 LED300/850 PSU WB CAU	GreenPerform Highbay, BY698P, 30000lm, 192W, CRI80, 5000K, cool white, fixed output, Wide Beam, IP65, flex&plug.
911401521791	BY698P G5 LED200/840 PSD WB CAU	GreenPerform Highbay, BY698P, 20000lm, 134W, CRI80, 4000K, neutral white, fixed output, Wide Beam, IP65, flex&plug.
911401521991	BY698P G5 LED200/850 PSD WB CAU	GreenPerform Highbay, BY698P, 20000lm, 134W, CRI80, 5000K, cool white, fixed output, Wide Beam, IP65, flex&plug.
911401522391	BY698P G5 LED250/840 PSD WB CAU	GreenPerform Highbay, BY698, 25000lm, 168W, CRI80, 4000K, neutral white, DALI control, Wide Beam, IP65, flex&plug.
911401522591	BY698P G5 LED250/850 PSD WB CAU	GreenPerform Highbay, BY698, 25000lm, 168W, CRI80, 5000K, cool white, DALI control, Wide Beam, IP65, flex&plug.
911401522991	BY698P G5 LED300/840 PSD WB CAU	GreenPerform Highbay, BY698, 30000lm, 205W, CRI80, 4000K, neutral white, DALI control, Wide Beam, IP65, flex&plug.
911401523191	BY698P G5 LED300/850 PSD WB CAU	GreenPerform Highbay, BY698, 30000lm, 205W, CRI80, 5000K, cool white, DALI control, Wide Beam, IP65, flex&plug.
911401528791	BY698X G5 LED200/840 Connected WB CAU	GreenPerform Highbay, BY698, 20000lm, 133W, CRI80, 4000K, neutral white, Interact control, occupancy&daylight sensor, Wide Beam, IP65, flex&plug.
911401528991	BY698X G5 LED200/850 Connected WB CAU	GreenPerform Highbay, BY698, 20000lm, 133W, CRI80, 5000K, cool white, Interact control, occupancy&daylight sensor, Wide Beam, IP65, flex&plug.
911401529391	BY698X G5 LED250/840 Connected WB CAU	GreenPerform Highbay, BY698, 25000lm, 166W, CRI80, 4000K, neutral white, Interact control, occupancy&daylight sensor, Wide Beam, IP65, flex&plug.
911401529591	BY698X G5 LED250/850 Connected WB CAU	GreenPerform Highbay, BY698, 25000lm, 166W, CRI80, 5000K, cool white, Interact control, occupancy&daylight sensor, Wide Beam, IP65, flex&plug.
911401529991	BY698X G5 LED300/840 Connected WB CAU	GreenPerform Highbay, BY698, 30000lm, 203W, CRI80, 4000K, neutral white, Interact control, occupancy&daylight sensor, Wide Beam, IP65, flex&plug.
911401530191	BY698X G5 LED300/850 Connected WB CAU	GreenPerform Highbay, BY698, 30000lm, 203W, CRI80, 5000K, cool white, Interact control, occupancy&daylight sensor, Wide Beam, IP65, flex&plug.

12NC	Specification	Description
911401594191	RAL7012, Bracket for all types	BY698Z G5 Bracket
911401565101	Spare part, Suspension for PSU and PSD	Mounting Hook
911401501071	Spare part, Pipe for Connected	Pipe nut set
911401824590	Spare part, driver PLS 115W 0.12-0.25A 460V 220-240V	S PLS 115W 0.12-0.25A 460V 220-240V
911401542102	Spare part, driver PLS 140W 0.15-0.3A 460V 220-240V	S PLS 140W 0.15-0.3A 460V 220-240V
911401824490	Spare part, driver PLS 193W 0.38-0.48A 460V 220-240V	S PLS 193W 0.33-0.42A 460V 220-240V
911401542202	Spare part, driver PLS 220W 0.38-0.48A 460V 220-240V	S PLS 220W 0.38-0.48A 460V 220-240V

PHILIPS

GreenPerform Highbay
G5 with EcoSet control

BY698X L1



reddot winner 2022
best of the best lighting design

Philips GreenPerform Highbay G5 EcoSet control

Series BY698X

High-performance, versatile and connected
lighting solutions for professionals

Philips GreenPerform Highbay G5 EcoSet wireless

A versatile LED highbay with optimised performance and EcoSet wireless industry control system



The GreenPerform Highbay G5 L1 W comes with the EcoSet industry wireless solution. Each luminaire is integrated with a wireless high bay sensor. The system is designed to provide simple commissioning, focused on group control, affordable cost, and all the energy-saving benefits. In addition to the brilliant basic control system feature-set, the GreenPerform Highbay G5 luminaire 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.

Features

- ✓ Easy and Simple way to achieve energy saving.
- ☁ Designed to provide Simple Commissioning – Gateway/Cloud/APP free.
- 💰 Installation savings – wireless sensor integrated, no need to order separate components
- 🔌 160lm/W system efficacy, excellent energy saving.
- 💡 50,000 hours L80 lifetime @Ta 35°C, long-term quality and reliability.
- 👁 Glare control and uniform illuminance for narrow beam and wide beam.

**IP65
IK08**

**50,000
hours
L80B50**

**5
years
warranty**

**Glare
control**

Applications



General manufacturing



Warehouses and logistics centres

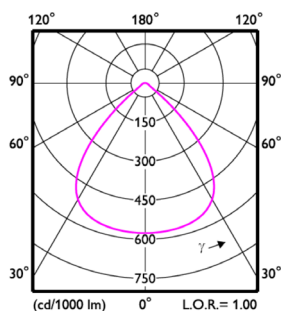


Exhibition halls, stadiums and public areas

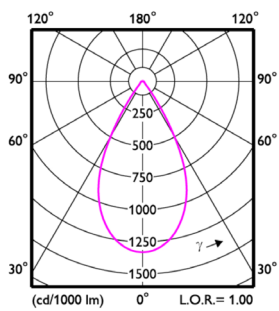
Product data, EcoSet wireless (L1 W)

Model	Philips GreenPerform Highbay G5 EcoSet wireless (BY698P)				
Types (BY698P G5 Connected)	LED105	LED150	LED200	LED250	LED300
Lumen Output (typ.)	10500lm	15000lm	20000lm	25000lm	30000lm
System Power (typ.)	67W	95W	126W	157W	192W
Tolerance	-10%/+10%				
System Efficacy (typ.)	160lm/W				
CCT (typ.)	4000K				
Colour rendering	CRI80				
Colour consistency	5 SDCM				
IP/IK rating	IP65 / IK08 (luminaire); IP65 / IK03 (sensor)				
Electrical classification	Class I				
Operation Temperature	-30°C to +50°C (Ta35°C)				
Lifetime	50Khrs L80B50 @35°C				
Optics	WB; NB (ETO)				
UGR (typ.)	UGR 25 (WB); UGR 22 (NB, ETO)				
Input Voltage	220-240V, 50/60 Hz				
Power factor	0.95				
Surge protection	2KV/4KV				
THD	<15% (<20% for LED105 PSU)				
Flicker	Pst<0.5 SVM<1				
Mounting / Installation	Suspension (Suspension Kit) Optional: Bracket				
Warranty	5 years				
Sensor	EcoSet industry wireless sensor (SIG201 PIR IP65 Wireless GR)				
Housing Colour	RAL7012				
Diameter (mm)	Φ290	Φ290	Φ330	Φ393	Φ393
Height (mm)	100	100	110	110	110
Weight (KGS)	2.1	2.1	2.8	4.5	4.5
Certification	ASNZS60598 (electrical safety), CISPR15 (EMC), Cert. Of Suitability, RCM				

Photometry



WB (Wide Beam)



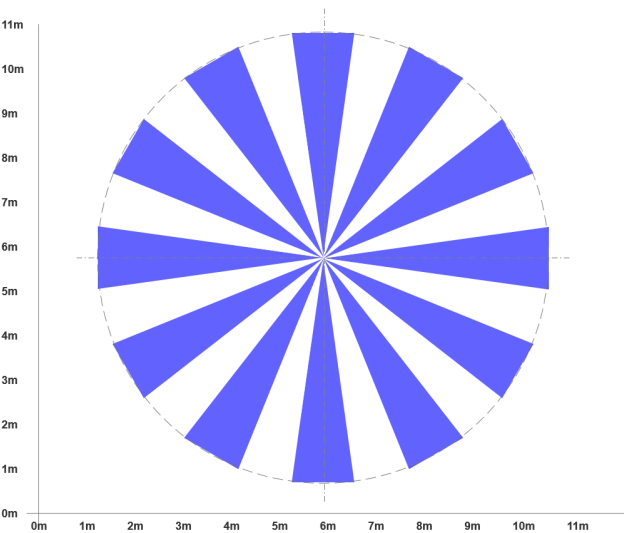
NB (Narrow Beam)

Product data (EcoSet wireless PIR sensor)

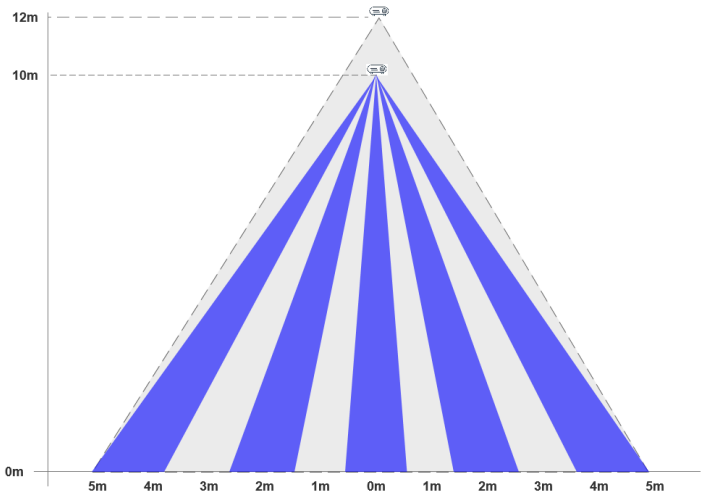
Model	SIG201 PIR IP65 Wireless GR
Sensor type	PIR & Daylight
Detection type	Motion and daylight harvesting
Mounting height	6–12m*
Detection range (diameter)	Diameter = Mounting height at mounting heights of 6 -10m Diameter = 10m at mounting heights of 10-12m
Hold time	10min default (3/10/15/30min)
Background light level	20% default (20%/30%/50%/70%)
Dimming level	20%-100% (dimming step by 10%)
Temp range	-30°C to +50°C
IP/IK rating	IP65 / IK03
Daylight Sensing	Yes (default setting, disabled)
Field Configuration	Via EcoSet remote controller
Wireless Protocol	BLE Mesh & IR receiver
Grouping nodes	Up to 50 nodes in one group

* Recommend to install the sensor at 6-10m installation height to achieve the best sensor detection performance.

Sensor coverage patterns



Typical Major detection range radius=5m at 25°C



Max height 10m (Performance) at 25°C
Max height 12m (Operational) at 25°C

Order Information

Order-code	Specification	Description
911401547702	BY698X G5 LED200/840 L1 W WB CAU	GreenPerform Highbay, BY698, 20000lm, 126 W, CRI80, 4000K, neutral white, EcoSet control, occupancy sensor, Wide Beam, IP65, flex&plug.
911401547802	BY698X G5 LED250/840 L1 W WB CAU	GreenPerform Highbay, BY698, 25000lm, 157 W, CRI80, 4000K, neutral white, EcoSet control, occupancy sensor, Wide Beam, IP65, flex&plug.
911401547902	BY698X G5 LED300/840 L1 W WB CAU	GreenPerform Highbay, BY698, 30000lm, 192 W, CRI80, 4000K, neutral white, EcoSet control, occupancy sensor, Wide Beam, IP65, flex&plug.

12NC	Description
911401594191	Bracket for all types BY698Z G5 Bracket
911401565101	Suspension for PSU and PSD Mounting Hook
911401501071	Pipe for Connected Pipe nut set
911401590622	EcoSet BLE IR Remote Controller EcoSet bluetooth infrared remote control



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