PHILIPS

Lighting



GreenPerform Highbay G3 - Excellent light quality, maximum energy savings.

GreenPerform Highbay G3

Following the successful introduction of the GreenPerform Highbay G2 in 2013, while continue providing the superior light quality, long service lifetime, reduced energy consumption and less maintenance in the switch on-off (PSU) and Dali dimmable (PSD) versions, the new generation Highbay seamlessly integrates state-of-the-art LED lighting with an easy-to-use and reliable wireless ZIGBEE control solution (ACW) and simple movement detection solution (PIR). In the ACW version products, when the situation on the work floor changes, settings such as dimming levels and timing can be changed wirelessly by the end-users themselves. Luminaires can be combined in groups across the layout, and re-zoning them does not require a hardware change, thus minimising commissioning costs. The system delivers savings over and above the actual efficiency of the LEDs and is future-proof.In the PIR version products, when there has no movement detected after 15 minutes, the lighting will dimming down to 25% of the lumen output, which helps to maximum your energy saving in a simple way. Easy to understand, easy to design-in, and easy to use, GreenPerform Highbay G3 is a smart way to light up your business.

GreenPerform Highbay G3

Benefits

- High energy saving up to 65%~88% comparing to HPI-P system
- Superb light quality
- Easy installation and maintenance
- Future-proof system: wireless adjustment of lighting settings and fast re-zoning if use of space changes (ACW versions)
- Light for need: Lighting dimming down to 25% after 15 minutes if no movement detected (PIR versions)

Features

- High efficacy: 130 lumens per watt
- Low UGR (NB/20 ~WB/26) and accurate colour (CRI> 80)
- Lifetime 50,000 hours with IP65 & IK07 protection
- Super slim design and suits for hook, pipe mounting
- Integrated with 1~10V PIR occupancy and movement based dimming sensor (PIR version)
- Integrated with ZigBee control, movement detection and day harvest sensor (ACW version)

Application

- General Industry Application: Factory, Warehouse, Distribution center
- Indoor sport hall
- Other high ceiling indoor applications

Specifications

Ambient Temperature	-30 to +45 °C
	-30 to +50 °C
Beam spread luminaire	100°, 60°
Main colour of the luminaire	Dark Grey
	Dark Grey (Pantone 8405C
Initial correlated colour temperature	4000 K, 6500 K
Initial luminous flux	11000 lm, 16000 lm, 20000 lm, 29000 lm
Input frequency	50 to 60 Hz
Input voltage	220 to 240 V
Light source colour	840 neutral white, 865 cool daylight

Material	Housing: aluminum die-cast
Material other1	Housing: die-cast aluminium: Cover: polycarbonate, flat
Median Useful Life L70B50	50000 h
Median Useful Life L80B50	40000 h
Median Useful Life L90B50	30000 h
Type	BY698P (Fix driver and Dali driver versions)BY698X (1~10V sensor and Dali ZigBee system versions)

Versions



BY698P LED300





BY698X LED110 PIR

Product details



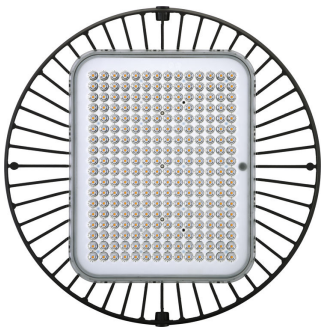
GreenPerform Highbay G3
BY698P Fixed Back



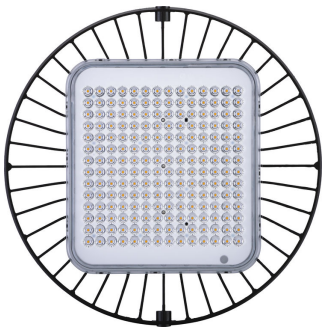
GreenPerform Highbay G3
BY698P Fixed Side



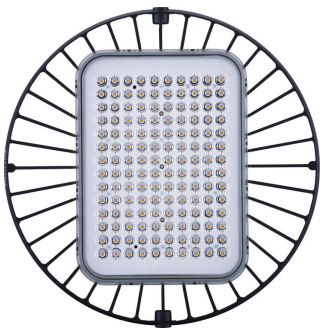
GreenPerform Highbay G3
BY698P with Bracket



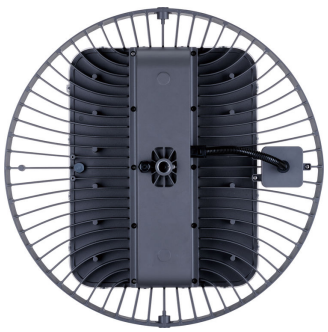
GreenPerform Highbay G3
BY698P LED200 Front



GreenPerform Highbay G3
BY698P LED160 Front



GreenPerform Highbay G3
BY698P LED110 Front



GreenPerform Highbay G3
BY698X PIR Back

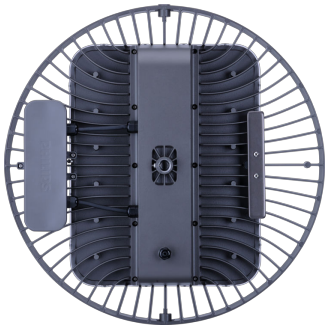


GreenPerform Highbay G3
BY698X PIR Front

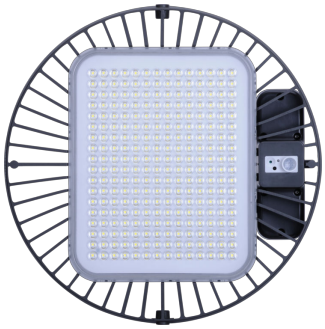


GreenPerform Highbay G3
BY698X PIR Side Front

Product details



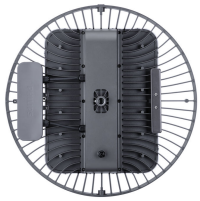
GreenPerform Highbay G3
BY698X ACW Back



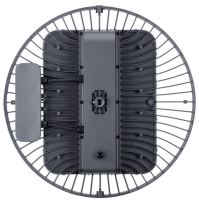
GreenPerform Highbay G3
BY698X ACW Front



GreenPerform Highbay G3
BY698X ACW Side



BY698X ACW 05



BY698X ACW 06



BY698X ACW 07



BY698X ACW 08



BY698X ACW 02



BY698X ACW 04

-	
Driver failure rate at 5,000 hours	0.01 %
Approval and Application	
Mech. impact protection code	IK07
Operating and Electrical	
Input Voltage	220 to 240 V
General Information	
CE mark	CE mark
Protection class IEC	Safety class I (I)
Optical cover/lens type	PC
Driver included	Yes
Flammability mark	F
Glow-wire test	650/5
Light source replaceable	No
Initial Performance (IEC Compliant)	
Init. Colour rendering index	>80
Luminous flux tolerance	+/-10%
Mechanical and Housing	
Colour	Dark Grey
Over Time Performance (IEC Compliant)	
Median useful life L80B50	40000 h
Median useful life L90B50	30000 h

Application Conditions

Order Code	Full Product Name	Ambient temperature range	Maximum dimming level	Suitable for random switching
911401513331	BY698P LED200 NW PSU NB	-30 to +45 °C	-	No
911401514131	BY698P LED160 NW PSU NB	-30 to +50 °C	-	No
911401514931	BY698P LED110 NW PSU NB	-30 to +50 °C	-	No
911401826097	BY698X LED300/NW WB ACW 4 EN	-30 to +45 °C	5% (1 to 10 V)	Yes
911401827697	BY698X LED300/CW WB ACW 4 L3000 EN	-30 to +45 °C	5% (1 to 10 V)	Yes
911401827797	BY698X LED300/NW WB ACW 4 L3000 EN	-30 to +45 °C	5% (1 to 10 V)	Yes
911401829497	BY698X LED300/CW PIR WB L3000 EN	-30 to +50 °C	-	Yes
911401829797	BY698X LED300/NW PIR WB EN	-30 to +50 °C	-	Yes
911401829997	BY698X LED300/NW PIR WB L3000 EN	-30 to +50 °C	-	Yes

Approval and Application

Order Code	Full Product Name	Ingress protection code
911401513331	BY698P LED200 NW PSU NB	IP65
911401514131	BY698P LED160 NW PSU NB	IP65
911401514931	BY698P LED110 NW PSU NB	IP65
911401826097	BY698X LED300/NW WB ACW 4 EN	IP54
911401827697	BY698X LED300/CW WB ACW 4 L3000 EN	IP54

Order Code	Full Product Name	Ingress protection code
911401827797	BY698X LED300/NW WB ACW 4 L3000 EN	IP54
911401829497	BY698X LED300/CW PIR WB L3000 EN	IP65
911401829797	BY698X LED300/NW PIR WB EN	IP65
911401829997	BY698X LED300/NW PIR WB L3000 EN	IP65

Controls and Dimming

Order Code	Full Product Name	Dimmable
911401513331	BY698P LED200 NW PSU NB	No
911401514131	BY698P LED160 NW PSU NB	No
911401514931	BY698P LED110 NW PSU NB	No
911401826097	BY698X LED300/NW WB ACW 4 EN	Yes
911401827697	BY698X LED300/CW WB ACW 4 L3000 EN	Yes

Order Code	Full Product Name	Dimmable
911401827797	BY698X LED300/NW WB ACW 4 L3000 EN	Yes
911401829497	BY698X LED300/CW PIR WB L3000 EN	Yes
911401829797	BY698X LED300/NW PIR WB EN	Yes
911401829997	BY698X LED300/NW PIR WB L3000 EN	Yes

General Information

GreenPerform Highbay G3

Order Code	Full Product Name	Beam angle of light source	ENEC mark	Number of gear units	Optic type
911401513331	BY698P LED200 NW PSU NB	-	-	1 unit	NB
911401514131	BY698P LED160 NW PSU NB	-	-	1 unit	NB
911401514931	BY698P LED110 NW PSU NB	-	-	1 unit	NB
911401826097	BY698X LED300/NW WB ACW 4 EN	-	-	2 units	WB
911401827697	BY698X LED300/CW WB ACW 4 L3000 EN	-	-	2 units	WB

Order Code	Full Product Name	Beam angle of light source	ENEC mark	Number of gear units	Optic type
911401827797	BY698X LED300/NW WB ACW 4 L3000 EN	- °	-	2 units	WB
911401829497	BY698X LED300/CW PIR WB L3000 EN	-	-	2 units	WB
911401829797	BY698X LED300/NW PIR WB EN	-	-	2 units	WB
911401829997	BY698X LED300/NW PIR WB L3000 EN	-	-	2 units	WB

Initial Performance (IEC Compliant) (1/2)

Order Code	Full Product Name	Initial chromaticity	Init. Corr. Colour Temperature	Initial LED luminaire efficacy	Initial luminous flux
911401513331	BY698P LED200 NW PSU NB	(0.38.0.38)SDCM<5	4000 K	129 lm/W	20000 lm
911401514131	BY698P LED160 NW PSU NB	(0.38.0.38)SDCM<5	4000 K	133 lm/W	16000 lm
911401514931	BY698P LED110 NW PSU NB	(0.38.0.38)SDCM<5	4000 K	129 lm/W	11000 lm
911401826097	BY698X LED300/NW WB ACW 4 EN	(0.38.0.38)SDCM<5	4000 K	129 lm/W	29000 lm
911401827697	BY698X LED300/CW WB ACW 4 L3000 EN	(0.313.0.324)SDCM<5	6500 K	129 lm/W	29000 lm

Order Code	Full Product Name	Initial chromaticity	Init. Corr. Colour Temperature	Initial LED luminaire efficacy	Initial luminous flux
911401827797	BY698X LED300/NW WB ACW 4 L3000 EN	(0.38.0.38)SDCM<5	4000 K	129 lm/W	29000 lm
911401829497	BY698X LED300/CW PIR WB L3000 EN	(0.313.0.324)SDCM<5	6500 K	129 lm/W	29000 lm
911401829797	BY698X LED300/NW PIR WB EN	(0.38.0.38)SDCM<5	4000 K	129 lm/W	29000 lm
911401829997	BY698X LED300/NW PIR WB L3000 EN	(0.38.0.38)SDCM<5	4000 K	129 lm/W	29000 lm

Initial Performance (IEC Compliant) (2/2)

Order Code	Full Product Name	Initial input power
911401513331	BY698P LED200 NW PSU NB	155 W
911401514131	BY698P LED160 NW PSU NB	120 W
911401514931	BY698P LED110 NW PSU NB	85 W
911401826097	BY698X LED300/NW WB ACW 4 EN	225 W
911401827697	BY698X LED300/CW WB ACW 4 L3000 EN	225 W

Order Code	Full Product Name	Initial input power
911401827797	BY698X LED300/NW WB ACW 4 L3000 EN	225 W
911401829497	BY698X LED300/CW PIR WB L3000 EN	225 W
911401829797	BY698X LED300/NW PIR WB EN	225 W
911401829997	BY698X LED300/NW PIR WB L3000 EN	225 W

GreenPerform Highbay G3



© 2021 Signify Holding All rights reserved. Signify does not give any representation or warranty as to the accuracy or completeness of the information included herein and shall not be liable for any action in reliance thereon. The information presented in this document is not intended as any commercial offer and does not form part of any quotation or contract, unless otherwise agreed by Signify. All trademarks are owned by Signify Holding or their respective owners.

www.lighting.philips.com
2021, March 30 - data subject to change