



# **GreenPerform Highbay G3**

### BY698P LED300 CW PSD NB

GreenPerform Highbay G3, 225 W, 29000 lm, 6500 K, DALI, 60°

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.

#### **Product data**

General Information	
Light source replaceable	No
Number of gear units	2 units
Driver included	Yes
Light source engine type	LED
Service tag	Yes
CE mark	CE mark

Warranty period	3 years
Flammability mark	For mounting on normally flammable
	surfaces
Glow-wire test	Temperature 650 °C, duration 5 s
Light Technical	
Luminous Flux	29,000 lm

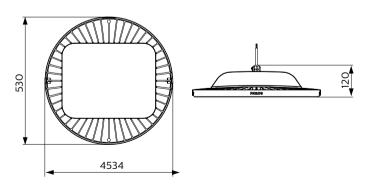
Datasheet, 2023, May 16 data subject to change

# **GreenPerform Highbay G3**

Correlated Color Temperature (Nom)	6500 K
Luminous Efficacy (rated) (Nom)	129 lm/W
Color rendering index (CRI)	>80
Light source color	865 cool daylight
Optic type	Narrow beam
Optical cover type	Polycarbonate bowl/cover
Luminaire light beam spread	60°
Operating and Electrical	
Input Voltage	220 to 240 V
Line Frequency	50 to 60 Hz
Inrush current	9.6 A
Inrush time	2.3 ms
Power Consumption	225 W
Power Factor (Fraction)	0.95
Connection	Flying leads/wires
Cable	Cable 3.0 m without plug
Number of products on MCB of 16 A type	12
В	
Temperature	
Ambient temperature range	-30 to +50 ℃
Controls and Dimming	
Dimmable	Yes
Driver/power unit/transformer	Power supply unit with DALI interface
Control interface	DALI
Constant light output	No
Mechanical and Housing	
Housing Material	Aluminum die cast
Optic material	Polycarbonate
Optical cover material	Polycarbonate
Housing Color	Dark gray

Overall height     120 mm       Overall diameter     530 mm       Approval and Application     Ingress protection code     IK07 [2 J reinforced]       Mech. impact protection code     IK07 [2 J reinforced]       Protection class IEC     Safety class I       Initial Performance (IEC Compliant)       Luminous flux tolerance     +/-10%       Initial chromaticity     (0.313.0.324)SDCM<5       Power consumption tolerance     +/-10%       Over Time Performance (IEC Compliant)       Driver failure rate at 5000 h     0.01 %       Median useful life L70B50     50,000 hour(s)       Median useful life L80B50     40,000 hour(s)       Median useful life L90B50     30,000 hour(s)       Application Conditions       Maximum dim level     5%       Suitable for random switching     No       Product Data       Order product name     BY698P LED300 CW PSD NB       Full product name     BY698P LED300 CW PSD NB       Full product code     911401513031       Order code     911401513031       Material Nr. (12NC)     911401513031       Numerator - Packs per outer box     1	Optical cover finish	Clear
Approval and Application Ingress protection code	Overall height	120 mm
Ingress protection code  IP65 [Dust penetration-protected, jet-proof]  Mech. impact protection code  IK07 [2 J reinforced]  Protection class IEC  Safety class I  Initial Performance (IEC Compliant)  Luminous flux tolerance  +/-10%  Initial chromaticity  (0.313.0.324)SDCM<5  Power consumption tolerance  +/-10%  Over Time Performance (IEC Compliant)  Driver failure rate at 5000 h  Median useful life L70B50  Median useful life L80B50  Median useful life L90B50  Application Conditions  Maximum dim level  Sw  Suitable for random switching  No  Product Data  Order product name  BY698P LED300 CW PSD NB  Full product code  911401513031  Material Nr. (12NC)  911401513031  Numerator - Quantity Per Pack  1	Overall diameter	530 mm
Ingress protection code  IP65 [Dust penetration-protected, jet-proof]  Mech. impact protection code  IK07 [2 J reinforced]  Protection class IEC  Safety class I  Initial Performance (IEC Compliant)  Luminous flux tolerance  +/-10%  Initial chromaticity  (0.313.0.324)SDCM<5  Power consumption tolerance  +/-10%  Over Time Performance (IEC Compliant)  Driver failure rate at 5000 h  Median useful life L70B50  Median useful life L80B50  Median useful life L90B50  Application Conditions  Maximum dim level  Sw  Suitable for random switching  No  Product Data  Order product name  BY698P LED300 CW PSD NB  Full product code  911401513031  Material Nr. (12NC)  911401513031  Numerator - Quantity Per Pack  1		
Mech. impact protection code  Protection class IEC  Safety class I  Initial Performance (IEC Compliant)  Luminous flux tolerance  +/-10%  Initial chromaticity  (0.313.0.324)SDCM<5  Power consumption tolerance  +/-10%  Over Time Performance (IEC Compliant)  Driver failure rate at 5000 h  Median useful life L70B50  Median useful life L80B50  Median useful life L90B50  Median useful life L90B50  Application Conditions  Maximum dim level  Sw  Suitable for random switching  No  Product Data  Order product name  BY698P LED300 CW PSD NB  Full product code  911401513031  Material Nr. (12NC)  911401513031  Numerator - Quantity Per Pack  1	Approval and Application	
Protection class IEC Safety class I  Initial Performance (IEC Compliant)  Luminous flux tolerance +/-10%  Initial chromaticity (0.313.0.324)SDCM<5  Power consumption tolerance +/-10%  Over Time Performance (IEC Compliant)  Driver failure rate at 5000 h 0.01 %  Median useful life L70B50 50,000 hour(s)  Median useful life L80B50 40,000 hour(s)  Median useful life L90B50 30,000 hour(s)  Application Conditions  Maximum dim level 5%  Suitable for random switching No  Product Data  Order product name BY698P LED300 CW PSD NB  Full product name BY698P LED300 CW PSD NB  Full product code 911401513031  Order code 911401513031  Material Nr. (12NC) 911401513031  Numerator - Quantity Per Pack 1	Ingress protection code	IP65 [Dust penetration-protected, jet-proof]
Initial Performance (IEC Compliant)  Luminous flux tolerance +/-10%  Initial chromaticity (0.313.0.324)SDCM<5  Power consumption tolerance +/-10%  Over Time Performance (IEC Compliant)  Driver failure rate at 5000 h 0.01 %  Median useful life L70B50 50,000 hour(s)  Median useful life L80B50 40,000 hour(s)  Median useful life L90B50 30,000 hour(s)  Application Conditions  Maximum dim level 5%  Suitable for random switching No  Product Data  Order product name BY698P LED300 CW PSD NB  Full product code 911401513031  Order code 911401513031  Material Nr. (12NC) 911401513031  Numerator - Quantity Per Pack 1	Mech. impact protection code	IK07 [2 J reinforced]
Luminous flux tolerance +/-10%  Initial chromaticity (0.313.0.324)SDCM<5  Power consumption tolerance +/-10%  Over Time Performance (IEC Compliant)  Driver failure rate at 5000 h 0.01 %  Median useful life L70B50 50,000 hour(s)  Median useful life L80B50 40,000 hour(s)  Median useful life L90B50 30,000 hour(s)  Maximum dim level 5%  Suitable for random switching No  Product Data  Order product name BY698P LED300 CW PSD NB  Full product code 911401513031  Order code 911401513031  Material Nr. (12NC) 911401513031  Numerator - Quantity Per Pack 1	Protection class IEC	Safety class I
Luminous flux tolerance +/-10%  Initial chromaticity (0.313.0.324)SDCM<5  Power consumption tolerance +/-10%  Over Time Performance (IEC Compliant)  Driver failure rate at 5000 h 0.01 %  Median useful life L70B50 50,000 hour(s)  Median useful life L80B50 40,000 hour(s)  Median useful life L90B50 30,000 hour(s)  Maximum dim level 5%  Suitable for random switching No  Product Data  Order product name BY698P LED300 CW PSD NB  Full product code 911401513031  Order code 911401513031  Material Nr. (12NC) 911401513031  Numerator - Quantity Per Pack 1		
Initial chromaticity (0.313.0.324)SDCM<5  Power consumption tolerance +/-10%  Over Time Performance (IEC Compliant)  Driver failure rate at 5000 h 0.01 %  Median useful life L70B50 50,000 hour(s)  Median useful life L80B50 40,000 hour(s)  Median useful life L90B50 30,000 hour(s)  Application Conditions  Maximum dim level 5%  Suitable for random switching No  Product Data  Order product name BY698P LED300 CW PSD NB  Full product code 911401513031  Order code 911401513031  Material Nr. (12NC) 911401513031  Numerator - Quantity Per Pack 1	Initial Performance (IEC Compliant)	
Power consumption tolerance +/-10%  Over Time Performance (IEC Compliant)  Driver failure rate at 5000 h 0.01 %  Median useful life L70B50 50,000 hour(s)  Median useful life L80B50 40,000 hour(s)  Median useful life L90B50 30,000 hour(s)  Application Conditions  Maximum dim level 5%  Suitable for random switching No  Product Data  Order product name BY698P LED300 CW PSD NB  Full product code 911401513031  Order code 911401513031  Material Nr. (12NC) 911401513031  Numerator - Quantity Per Pack 1	Luminous flux tolerance	+/-10%
Over Time Performance (IEC Compliant)  Driver failure rate at 5000 h 0.01 %  Median useful life L70B50 50,000 hour(s)  Median useful life L80B50 40,000 hour(s)  Median useful life L90B50 30,000 hour(s)  Application Conditions  Maximum dim level 5%  Suitable for random switching No  Product Data  Order product name BY698P LED300 CW PSD NB  Full product name BY698P LED300 CW PSD NB  Full product code 911401513031  Order code 911401513031  Material Nr. (12NC) 911401513031  Numerator - Quantity Per Pack 1	Initial chromaticity	(0.313.0.324)SDCM<5
Driver failure rate at 5000 h  Median useful life L70B50  Median useful life L80B50  Median useful life L90B50  Median useful life L90B50  Application Conditions  Maximum dim level  Sw  Suitable for random switching  No  Product Data  Order product name  BY698P LED300 CW PSD NB  Full product code  911401513031  Material Nr. (12NC)  911401513031  Numerator - Quantity Per Pack  1	Power consumption tolerance	+/-10%
Driver failure rate at 5000 h  Median useful life L70B50  Median useful life L80B50  Median useful life L90B50  Median useful life L90B50  Application Conditions  Maximum dim level  Sw  Suitable for random switching  No  Product Data  Order product name  BY698P LED300 CW PSD NB  Full product code  911401513031  Material Nr. (12NC)  911401513031  Numerator - Quantity Per Pack  1		
Median useful life L70B50 50,000 hour(s)  Median useful life L80B50 40,000 hour(s)  Median useful life L90B50 30,000 hour(s)  Application Conditions  Maximum dim level 5%  Suitable for random switching No  Product Data  Order product name BY698P LED300 CW PSD NB  Full product name BY698P LED300 CW PSD NB  Full product code 911401513031  Order code 911401513031  Material Nr. (12NC) 911401513031  Numerator - Quantity Per Pack 1	Over Time Performance (IEC Compliant)	
Median useful life L80B50 40,000 hour(s)  Median useful life L90B50 30,000 hour(s)  Application Conditions  Maximum dim level 5%  Suitable for random switching No  Product Data  Order product name BY698P LED300 CW PSD NB  Full product name BY698P LED300 CW PSD NB  Full product code 911401513031  Order code 911401513031  Material Nr. (12NC) 911401513031  Numerator - Quantity Per Pack 1	Driver failure rate at 5000 h	0.01 %
Median useful life L90B50 30,000 hour(s)  Application Conditions  Maximum dim level 5%  Suitable for random switching No  Product Data  Order product name BY698P LED300 CW PSD NB  Full product name BY698P LED300 CW PSD NB  Full product code 911401513031  Order code 911401513031  Material Nr. (12NC) 911401513031  Numerator - Quantity Per Pack 1	Median useful life L70B50	50,000 hour(s)
Application Conditions  Maximum dim level 5%  Suitable for random switching No  Product Data  Order product name BY698P LED300 CW PSD NB  Full product name BY698P LED300 CW PSD NB  Full product code 911401513031  Order code 911401513031  Material Nr. (12NC) 911401513031  Numerator - Quantity Per Pack 1	Median useful life L80B50	40,000 hour(s)
Maximum dim level 5%  Suitable for random switching No  Product Data  Order product name BY698P LED300 CW PSD NB  Full product name BY698P LED300 CW PSD NB  Full product code 911401513031  Order code 911401513031  Material Nr. (12NC) 911401513031  Numerator - Quantity Per Pack 1	Median useful life L90B50	30,000 hour(s)
Maximum dim level 5%  Suitable for random switching No  Product Data  Order product name BY698P LED300 CW PSD NB  Full product name BY698P LED300 CW PSD NB  Full product code 911401513031  Order code 911401513031  Material Nr. (12NC) 911401513031  Numerator - Quantity Per Pack 1		
Product Data  Order product name  BY698P LED300 CW PSD NB  Full product name  BY698P LED300 CW PSD NB  Full product code  911401513031  Order code  911401513031  Material Nr. (12NC)  911401513031  Numerator - Quantity Per Pack  1	Application Conditions	
Product Data           Order product name         BY698P LED300 CW PSD NB           Full product name         BY698P LED300 CW PSD NB           Full product code         911401513031           Order code         911401513031           Material Nr. (12NC)         911401513031           Numerator - Quantity Per Pack         1	Maximum dim level	5%
Order product name         BY698P LED300 CW PSD NB           Full product name         BY698P LED300 CW PSD NB           Full product code         911401513031           Order code         911401513031           Material Nr. (12NC)         911401513031           Numerator - Quantity Per Pack         1	Suitable for random switching	No
Order product name         BY698P LED300 CW PSD NB           Full product name         BY698P LED300 CW PSD NB           Full product code         911401513031           Order code         911401513031           Material Nr. (12NC)         911401513031           Numerator - Quantity Per Pack         1		
Full product name         BY 698P LED300 CW PSD NB           Full product code         911401513031           Order code         911401513031           Material Nr. (12NC)         911401513031           Numerator - Quantity Per Pack         1	Product Data	
Full product code         911401513031           Order code         911401513031           Material Nr. (12NC)         911401513031           Numerator - Quantity Per Pack         1	Order product name	BY698P LED300 CW PSD NB
Order code         911401513031           Material Nr. (12NC)         911401513031           Numerator - Quantity Per Pack         1	Full product name	BY698P LED300 CW PSD NB
Material Nr. (12NC) 911401513031  Numerator - Quantity Per Pack 1	Full product code	911401513031
Numerator - Quantity Per Pack 1	Order code	911401513031
	Material Nr. (12NC)	911401513031
Numerator - Packs per outer box 1	Numerator - Quantity Per Pack	1
	Numerator - Packs per outer box	1

## Dimensional drawing



## **GreenPerform Highbay G3**



© 2023 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. Philips and the Philips Shield Emblem are registered trademarks of Koninklijke Philips N.V.