PHILIPS

GreenPerform Elite Highbay G2

BY778

GreenPerform Elite Highbay G2: A versatile highbay LED luminaire with future-proof connectivity and UltraEfficient options

GreenPerform Elite Highbay G2 is the latest innovation in our successful range of highbay luminaires for high ceiling and industrial applications. GreenPerform Elite Highbay G2 improves on the unique finless housing and flat optics design of earlier versions of the luminaire. Its clean and appealing aesthetic works perfectly in industrial application as well as high-ceiling applications in airports, lobbies, and other indoor areas. This versatile luminaire offers a wealth of practical features, including great light quality, exceptional energy savings, a long lifetime at an affordable price, and a wide variety of optics and lumen packages. GreenPerform Elite Highbay G2 also offers options for advanced connectivity with IoT-based systems and software applications, including Interact Pro. If you're looking for a robust, reliable, fit-and-forget solution with connectivity advantages, GreenPerform Elite Highbay G2 is the smart choice.

Benefits

- Unique aesthetics with superior light quality
- Robust and reliable, with a long service life
- Comes in UltraEfficient versions with high efficacy and exceptional energy savings
- Wide range of lumen packages and optics offers extensive application options
- Ready to connect to cloud-based IoT software applications, including Interact Pro

Applications

- Warehouses
- Manufacturing
- Food processing
- Airports
- Lobbies

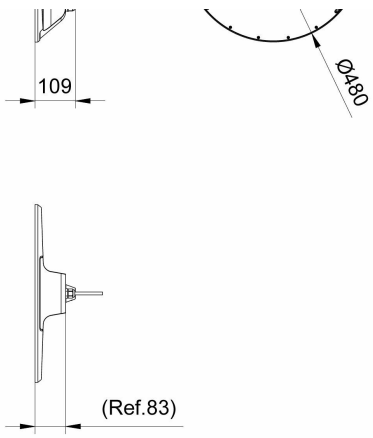
Features

- UltraEfficient versions delivers efficacy 190lm/W, and up to 200lm/W based on optional config.
- Long service life of 100,000 hours (L70B50 @Ta 35^{0}C)
- Extensive range of lumen packages from 10,000 lm to 40,000 lm
- Flicker-free light, UGR25 on WB and UGR22 on NB for superior visual comfort
- High ingress protection rating of IP66 and impact protection rating of IK08
- Wide variety of optics for a range of applications
- Suitable for chain, pipe and surface mounting

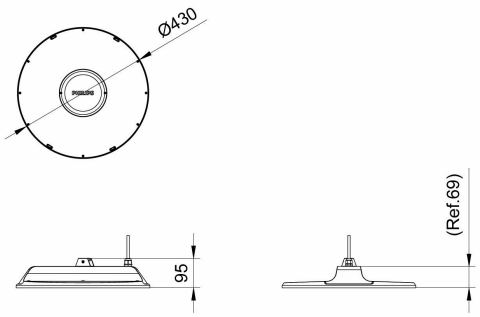
Versions

GreenPerform Elite Highbay G2

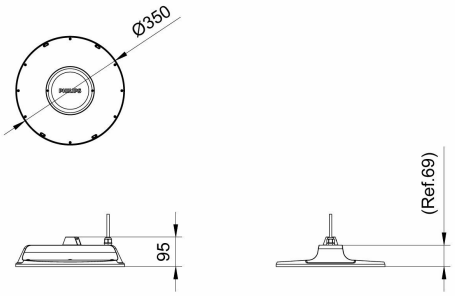
Dimensional drawing



BY778P LED400/CW PSU NB



BY778P LED300/NW PSU WB



BY778P LED150/CW PSU WB

General Information

Number of gear units	1 unit
Gear	EBR [Electronic regulating]
Driver included	Yes
Service tag	Yes

Light Technical

Color rendering index (CRI)	80
Number of light sources	1

Operating and Electrical

Input Voltage	200 to 240 V
Line Frequency	50 to 60 Hz
Suitable for random switching	Yes
Protection class IEC	Safety class I

Controls and Dimming

Dimmable	-
Maximum dim level	Not applicable

Mechanical and Housing

Housing Color	Gray
Ingress protection code	IP66 [Dust penetration-protected, jet-proof]
Mech. impact protection code	IK08 [5 J vandal-protected]
Optical cover type	Polycarbonate

Approval and Application

Glow-wire test	Temperature 650 °C, duration 30 s
Flammability mark	-
CE mark	Yes
ENEC mark	-
Ambient temperature range	-40 to +50 °C

Initial Performance (IEC Compliant)

Luminous flux tolerance	-10% / +10%

Light Technical

Order Code	Full Product Name	Luminous Flux	Correlated Color Temperature (Nom)	Luminous Efficacy (rated) (Nom)	Beam angle of light source	Optic type
911401620609	BY778P LED100/NW PSU WB	10,000 lm	4000 K	196 lm/W	90 degree(s)	Beam angle 90°
911401620709	BY778P LED100/NW PSU NB	10,000 lm	4000 K	196 lm/W	55 degree(s)	Beam angle 55°
911401620809	BY778P LED100/CW PSU WB	10,000 lm	6500 K	196 lm/W	90 degree(s)	Beam angle 90°
911401620909	BY778P LED100/CW PSU NB	10,000 lm	6500 K	196 lm/W	55 degree(s)	Beam angle 55°
911401621009	BY778P LED150/NW PSU WB	15,000 lm	4000 K	192 lm/W	90 degree(s)	Beam angle 90°
911401621109	BY778P LED150/NW PSU NB	15,000 lm	4000 K	192 lm/W	55 degree(s)	Beam angle 55°
911401621209	BY778P LED150/CW PSU WB	15,000 lm	6500 K	192 lm/W	90 degree(s)	Beam angle 90°
911401621309	BY778P LED150/CW PSU NB	15,000 lm	6500 K	192 lm/W	55 degree(s)	Beam angle 55°
911401621409	BY778P LED200/NW PSU WB	20,000 lm	4000 K	190 lm/W	90 degree(s)	Beam angle 90°
911401621509	BY778P LED200/NW PSU NB	20,000 lm	4000 K	190 lm/W	55 degree(s)	Beam angle 55°
911401621609	BY778P LED200/CW PSU WB	20,000 lm	6500 K	190 lm/W	90 degree(s)	Beam angle 90°
911401621709	BY778P LED200/CW PSU NB	20,000 lm	6500 K	190 lm/W	55 degree(s)	Beam angle 55°
911401621809	BY778P LED250/NW PSU WB	25,000 lm	4000 K	192 lm/W	90 degree(s)	Beam angle 90°
911401621909	BY778P LED250/NW PSU NB	25,000 lm	4000 K	192 lm/W	55 degree(s)	Beam angle 55°
911401622009	BY778P LED250/CW PSU WB	25,000 lm	6500 K	192 lm/W	90 degree(s)	Beam angle 90°
911401622109	BY778P LED250/CW PSU NB	25,000 lm	6500 K	192 lm/W	55 degree(s)	Beam angle 55°
911401622209	BY778P LED300/NW PSU WB	30,000 lm	4000 K	194 lm/W	90 degree(s)	Beam angle 90°
911401622309	BY778P LED300/NW PSU NB	30,000 lm	4000 K	194 lm/W	55 degree(s)	Beam angle 55°
911401622409	BY778P LED300/CW PSU WB	30,000 lm	6500 K	194 lm/W	90 degree(s)	Beam angle 90°
911401622509	BY778P LED300/CW PSU NB	30,000 lm	6500 K	194 lm/W	55 degree(s)	Beam angle 55°
911401622609	BY778P LED350/NW PSU WB	35,000 lm	4000 K	190 lm/W	90 degree(s)	Beam angle 90°
911401622709	BY778P LED350/NW PSU NB	35,000 lm	4000 K	190 lm/W	55 degree(s)	Beam angle 55°
911401622809	BY778P LED350/CW PSU WB	35,000 lm	6500 K	190 lm/W	90 degree(s)	Beam angle 90°
911401622909	BY778P LED350/CW PSU NB	35,000 lm	6500 K	190 lm/W	55 degree(s)	Beam angle 55°
911401623009	BY778P LED400/NW PSU WB	40,000 lm	4000 K	190 lm/W	90 degree(s)	Beam angle 90°
911401623109	BY778P LED400/NW PSU NB	40,000 lm	4000 K	190 lm/W	55 degree(s)	Beam angle 55°
911401623209	BY778P LED400/CW PSU WB	40,000 lm	6500 K	190 lm/W	90 degree(s)	Beam angle 90°
911401623309	BY778P LED400/CW PSU NB	40,000 lm	6500 K	190 lm/W	55 degree(s)	Beam angle 55°

Operating and Electrical

Order Code	Full Product Name	Power Consumption
911401620609	BY778P LED100/NW PSU WB	51 W
911401620709	BY778P LED100/NW PSU NB	51 W
911401620809	BY778P LED100/CW PSU WB	51 W
911401620909	BY778P LED100/CW PSU NB	51 W
911401621009	BY778P LED150/NW PSU WB	78 W
911401621109	BY778P LED150/NW PSU NB	78 W
911401621209	BY778P LED150/CW PSU WB	78 W
911401621309	BY778P LED150/CW PSU NB	78 W
911401621409	BY778P LED200/NW PSU WB	105 W
911401621509	BY778P LED200/NW PSU NB	105 W
911401621609	BY778P LED200/CW PSU WB	105 W
911401621709	BY778P LED200/CW PSU NB	105 W
911401621809	BY778P LED250/NW PSU WB	130 W
911401621909	BY778P LED250/NW PSU NB	130 W
911401622009	BY778P LED250/CW PSU WB	130 W
911401622109	BY778P LED250/CW PSU NB	130 W
911401622209	BY778P LED300/NW PSU WB	155 W
911401622309	BY778P LED300/NW PSU NB	155 W
911401622409	BY778P LED300/CW PSU WB	155 W
911401622509	BY778P LED300/CW PSU NB	155 W
911401622609	BY778P LED350/NW PSU WB	184 W
911401622709	BY778P LED350/NW PSU NB	184 W
911401622809	BY778P LED350/CW PSU WB	184 W
911401622909	BY778P LED350/CW PSU NB	184 W
911401623009	BY778P LED400/NW PSU WB	210 W
911401623109	BY778P LED400/NW PSU NB	210 W
911401623209	BY778P LED400/CW PSU WB	210 W
911401623309	BY778P LED400/CW PSU NB	210 W

Initial Performance (IEC Compliant)

Order Code	Full Product Name	Initial chromaticity
911401620609	BY778P LED100/NW PSU WB	(0.3818,0.3797) SDCM < 5
911401620709	BY778P LED100/NW PSU NB	(0.3818,0.3797) SDCM < 5
911401620809	BY778P LED100/CW PSU WB	(0.3123,0.3282) SDCM < 5
911401620909	BY778P LED100/CW PSU NB	(0.3123,0.3282) SDCM < 5
911401621009	BY778P LED150/NW PSU WB	(0.3818,0.3797) SDCM < 5
911401621109	BY778P LED150/NW PSU NB	(0.3818,0.3797) SDCM < 5
911401621209	BY778P LED150/CW PSU WB	(0.3123,0.3282) SDCM < 5
911401621309	BY778P LED150/CW PSU NB	(0.3123,0.3282) SDCM < 5
911401621409	BY778P LED200/NW PSU WB	(0.3818,0.3797) SDCM < 5

Order Code	Full Product Name	Initial chromaticity
911401621509	BY778P LED200/NW PSU NB	(0.3818,0.3797) SDCM < 5
911401621609	BY778P LED200/CW PSU WB	(0.3123,0.3282) SDCM < 5
911401621709	BY778P LED200/CW PSU NB	(0.3123,0.3282) SDCM < 5
911401621809	BY778P LED250/NW PSU WB	(0.3818,0.3797) SDCM < 5
911401621909	BY778P LED250/NW PSU NB	(0.3818,0.3797) SDCM < 5
911401622009	BY778P LED250/CW PSU WB	(0.3123,0.3282) SDCM < 5
911401622109	BY778P LED250/CW PSU NB	(0.3123,0.3282) SDCM < 5
911401622209	BY778P LED300/NW PSU WB	(0.3818,0.3797) SDCM < 5
911401622309	BY778P LED300/NW PSU NB	(0.3818,0.3797) SDCM < 5
911401622409	BY778P LED300/CW PSU WB	(0.3123,0.3282) SDCM < 5
911401622509	BY778P LED300/CW PSU NB	(0.3123,0.3282) SDCM < 5
911401622609	BY778P LED350/NW PSU WB	(0.3818,0.3797) SDCM < 5
911401622709	BY778P LED350/NW PSU NB	(0.3818,0.3797) SDCM < 5
911401622809	BY778P LED350/CW PSU WB	(0.3123,0.3282) SDCM < 5
911401622909	BY778P LED350/CW PSU NB	(0.3123,0.3282) SDCM < 5
911401623009	BY778P LED400/NW PSU WB	(0.3818,0.3797) SDCM < 5
911401623109	BY778P LED400/NW PSU NB	(0.3818,0.3797) SDCM < 5
911401623209	BY778P LED400/CW PSU WB	(0.3123,0.3282) SDCM < 5
911401623309	BY778P LED400/CW PSU NB	(0.3123,0.3282) SDCM < 5

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