

PHILIPS

Lighting



Robust and superior, beyond standard application

GreenPerform Highbay HT

GreenPerform Highbay High Ta is an ideal solution for high temperature application and special heavy industry, enables a safe working environment with leading specification and comfortable light. In the meanwhile, lower the overall maintenance cost eventually.

Benefits

- Long-lasting performance in high temperature
- Energy saving up to 75%
- Excellent quality assures high performance in high temperature maximum to 60°C

Features

- Lifetime 75,000 hours @ 35°C; 50,000 hours @ 50°C
- System efficacy 135 lumens per watt
- Efficient heat dissipation assure long time at high temperature application
- Tempered glass cover provides strong protection from high pollution

Application

- Factory
- Warehouse
- Open space
- Stadium

GreenPerform Highbay HT

Versions



BY687P LED250/NW

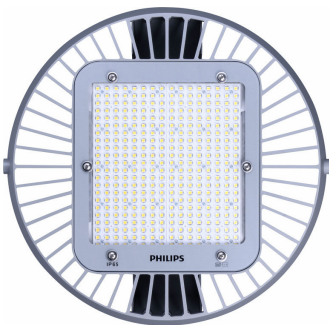
Product details



GreenPerform Highbay HT



GreenPerform Highbay HT



GreenPerform Highbay HT



GreenPerform Highbay HT

GreenPerform Highbay HT

Application Conditions

Ambient temperature range	-30 to +60 °C
Suitable for random switching	No

Approval and Application

Mech. impact protection code	IK07
Ingress protection code	IP65

General Information

CE mark	CE mark
Protection class IEC	Safety class I
Optical cover/lens type	Tempered glass
Driver included	Yes
Flammability mark	For mounting on normally flammable surfaces
Glow-wire test	Temperature 650 °C, duration 5 s
Light source replaceable	No
Number of gear units	1 unit

Initial Performance (IEC Compliant)

Luminous flux tolerance	+/-10%
-------------------------	--------

Mechanical and Housing

Color	Silver
-------	--------

Over Time Performance (IEC Compliant)

Median useful life L80B50	60000 h
Median useful life L90B50	45000 h

Application Conditions

Order Code	Full Product Name	Maximum dim level
911401514851	BY687P LED250/NW PSR NB G2 XT	10% (depends on dimmer, ELV)
911401514951	BY687P LED250/NW PSR WB G2 XT	10% (depends on dimmer, ELV)
911401515051	BY687P LED250/NW PSR NB G2 XT EN	10% (depends on dimmer, ELV)
911401515151	BY687P LED250/CW PSR WB G2 XT EN	10% (depends on dimmer, ELV)
911401515251	BY687P LED250/NW PSR WB G2 XT EN	10% (depends on dimmer, ELV)
911401515351	BY688P LED160/CW PSD WB G2 120-277XTEN	10% (depends on dimmer, ELV)
911401515451	BY687P LED250/CW PSR NB G2 XT EN	10% (depends on dimmer, ELV)
911401515551	BY688P LED160/NW PSD WB G2 120-277XTEN	10% (depends on dimmer, ELV)
911401515651	BY687P LED250/CW PSR WB G2 XT	10% (depends on dimmer, ELV)
911401515751	BY688P LED160/CW PSD WB G2 XT	10% (depends on dimmer, ELV)
911401515851	BY687P LED210/NW PSR NB G2 PW9 XT	10% (depends on dimmer, ELV)
911401515951	BY687P LED210/NW PSR WB G2 PW9 XT	10% (depends on dimmer, ELV)
911401516051	BY688P LED160/NW PSD WB G2 XT	10% (depends on dimmer, ELV)
911401516151	BY688P LED160/CW PSD NB G2 XT	10% (depends on dimmer, ELV)
911401516451	BY689P LED110/NW PSU NB G2 XT	Not applicable
911401516551	BY688P LED160/NW PSD NB G2 XT	10% (depends on dimmer, ELV)
911401516751	BY689P LED110/CW PSU NB G2 XT	Not applicable
911401516851	BY689P LED110/CW PSU WB G2 XT	Not applicable
911401516951	BY687P LED250/CW PSR NB G2 XT	10% (depends on dimmer, ELV)
911401517051	BY689P LED110/NW PSU WB G2 XT	Not applicable
911401517251	BY689P LED110/NW PSU NB G2 120-277XTEN	Not applicable
911401517351	BY689P LED110/NW PSU WB G2 120-277XTEN	Not applicable
911401517451	BY688P LED160/CW PSD NB G2 120-277XTEN	10% (depends on dimmer, ELV)
911401517551	BY689P LED110/CW PSU WB G2 120-277XTEN	Not applicable
911401517651	BY688P LED160/NW PSD NB G2 120-277XTEN	10% (depends on dimmer, ELV)
911401517751	BY689P LED110/CW PSU NB G2 120-277XTEN	Not applicable

Controls and Dimming

Order Code	Full Product Name	Dimmable	Order Code	Full Product Name	Dimmable
911401514851	BY687P LED250/NW PSR NB G2 XT	Yes	911401516151	BY688P LED160/CW PSD NB G2 XT	Yes
911401514951	BY687P LED250/NW PSR WB G2 XT	Yes	911401516451	BY689P LED110/NW PSU NB G2 XT	No
911401515051	BY687P LED250/NW PSR NB G2 XT EN	Yes	911401516551	BY688P LED160/NW PSD NB G2 XT	Yes
911401515151	BY687P LED250/CW PSR WB G2 XT EN	Yes	911401516751	BY689P LED110/CW PSU NB G2 XT	No
911401515251	BY687P LED250/NW PSR WB G2 XT EN	Yes	911401516851	BY689P LED110/CW PSU WB G2 XT	No
911401515351	BY688P LED160/CW PSD WB G2 120-277XTEN	Yes	911401516951	BY687P LED250/CW PSR NB G2 XT	Yes
911401515451	BY687P LED250/CW PSR NB G2 XT EN	Yes	911401517051	BY689P LED110/NW PSU WB G2 XT	No
911401515551	BY688P LED160/NW PSD WB G2 120-277XTEN	Yes	911401517251	BY689P LED110/NW PSU NB G2 120-277XTEN	No
911401515651	BY687P LED250/CW PSR WB G2 XT	Yes	911401517351	BY689P LED110/NW PSU WB G2 120-277XTEN	No
911401515751	BY688P LED160/CW PSD WB G2 XT	Yes	911401517451	BY688P LED160/CW PSD NB G2 120-277XTEN	Yes
911401515851	BY687P LED210/NW PSR NB G2 PW9 XT	Yes	911401517551	BY689P LED110/CW PSU WB G2 120-277XTEN	No
911401515951	BY687P LED210/NW PSR WB G2 PW9 XT	Yes	911401517651	BY688P LED160/NW PSD NB G2 120-277XTEN	Yes
911401516051	BY688P LED160/NW PSD WB G2 XT	Yes	911401517751	BY689P LED110/CW PSU NB G2 120-277XTEN	No

Operating and Electrical

GreenPerform Highbay HT

Order Code	Full Product Name	Input Voltage
911401514851	BY687P LED250/NW PSR NB G2 XT	220 to 240 V
911401514951	BY687P LED250/NW PSR WB G2 XT	220 to 240 V
911401515051	BY687P LED250/NW PSR NB G2 XT EN	220 to 240 V
911401515151	BY687P LED250/CW PSR WB G2 XT EN	220 to 240 V
911401515251	BY687P LED250/NW PSR WB G2 XT EN	220 to 240 V
911401515351	BY688P LED160/CW PSD WB G2 120-277XTEN	120 to 277 V
911401515451	BY687P LED250/CW PSR NB G2 XT EN	220 to 240 V
911401515551	BY688P LED160/NW PSD WB G2 120-277XTEN	120 to 277 V
911401515651	BY687P LED250/CW PSR WB G2 XT	220 to 240 V
911401515751	BY688P LED160/CW PSD WB G2 XT	220 to 240 V
911401515851	BY687P LED210/NW PSR NB G2 PW9 XT	220 to 240 V
911401515951	BY687P LED210/NW PSR WB G2 PW9 XT	220 to 240 V
911401516051	BY688P LED160/NW PSD WB G2 XT	220 to 240 V

Order Code	Full Product Name	Input Voltage
911401516151	BY688P LED160/CW PSD NB G2 XT	220 to 240 V
911401516451	BY689P LED110/NW PSU NB G2 XT	220 to 240 V
911401516551	BY688P LED160/NW PSD NB G2 XT	220 to 240 V
911401516751	BY689P LED110/CW PSU NB G2 XT	220 to 240 V
911401516851	BY689P LED110/CW PSU WB G2 XT	220 to 240 V
911401516951	BY687P LED250/CW PSR NB G2 XT	220 to 240 V
911401517051	BY689P LED110/NW PSU WB G2 XT	220 to 240 V
911401517251	BY689P LED110/NW PSU NB G2 120-277XTEN	120 to 277 V
911401517351	BY689P LED110/NW PSU WB G2 120-277XTEN	120 to 277 V
911401517451	BY688P LED160/CW PSD NB G2 120-277XTEN	120 to 277 V
911401517551	BY689P LED110/CW PSU WB G2 120-277XTEN	120 to 277 V
911401517651	BY688P LED160/NW PSD NB G2 120-277XTEN	120 to 277 V
911401517751	BY689P LED110/CW PSU NB G2 120-277XTEN	120 to 277 V

General Information

Order Code	Full Product Name	Beam angle		Optic type
		of light source	ENEC mark	
911401514851	BY687P LED250/NW PSR NB G2 XT	-	-	Narrow beam
911401514951	BY687P LED250/NW PSR WB G2 XT	-	-	Wide beam
911401515051	BY687P LED250/NW PSR NB G2 XT EN	-°	-	Narrow beam
911401515151	BY687P LED250/CW PSR WB G2 XT EN	-°	-	Wide beam
911401515251	BY687P LED250/NW PSR WB G2 XT EN	-°	-	Wide beam
911401515351	BY688P LED160/CW PSD WB G2 120-277XTEN	-°	-	Wide beam
911401515451	BY687P LED250/CW PSR NB G2 XT EN	-°	-	Narrow beam
911401515551	BY688P LED160/NW PSD WB G2 120-277XTEN	-°	-	Wide beam
911401515651	BY687P LED250/CW PSR WB G2 XT	-	-	Wide beam
911401515751	BY688P LED160/CW PSD WB G2 XT	-°	-	Wide beam
911401515851	BY687P LED210/NW PSR NB G2 PW9 XT	-	-	Narrow beam
911401515951	BY687P LED210/NW PSR WB G2 PW9 XT	-	-	Wide beam
911401516051	BY688P LED160/NW PSD WB G2 XT	-°	-	Wide beam

Order Code	Full Product Name	Beam angle		Optic type
		of light source	ENEC mark	
911401516151	BY688P LED160/CW PSD NB G2 XT	-°	-	Narrow beam
911401516451	BY689P LED110/NW PSU NB G2 XT	-°	-	Narrow beam
911401516551	BY688P LED160/NW PSD NB G2 XT	-°	-	Narrow beam
911401516751	BY689P LED110/CW PSU NB G2 XT	-°	-	Narrow beam
911401516851	BY689P LED110/CW PSU WB G2 XT	-°	-	Wide beam
911401516951	BY687P LED250/CW PSR NB G2 XT	-	-	Narrow beam
911401517051	BY689P LED110/NW PSU WB G2 XT	-°	-	Wide beam
911401517251	BY689P LED110/NW PSU NB G2 120-277XTEN	-°	-	Narrow beam
911401517351	BY689P LED110/NW PSU WB G2 120-277XTEN	-°	-	Wide beam
911401517451	BY688P LED160/CW PSD NB G2 120-277XTEN	-°	-	Narrow beam
911401517551	BY689P LED110/CW PSU WB G2 120-277XTEN	-°	-	Wide beam
911401517651	BY688P LED160/NW PSD NB G2 120-277XTEN	-°	-	Narrow beam
911401517751	BY689P LED110/CW PSU NB G2 120-277XTEN	-°	-	Narrow beam

Initial Performance (IEC Compliant) (1/2)

GreenPerform Highbay HT

Order Code	Full Product Name	Initial chromaticity	Init. Corr. Color Temperature	Init. Color Rendering Index	Initial LED luminaire efficacy
911401514851	BY687P LED250/NW PSR NB G2 XT	(0.38.0.38)SDCM<5	4000 K	>80	135 lm/W
911401514951	BY687P LED250/NW PSR WB G2 XT	(0.38.0.38)SDCM<5	4000 K	>80	135 lm/W
911401515051	BY687P LED250/NW PSR NB G2 XT EN	(0.38.0.38)SDCM<5	4000 K	>80	135 lm/W
911401515151	BY687P LED250/CW PSR WB G2 XT EN	(0.313.0.324)SDCM<5	6500 K	>80	135 lm/W
911401515251	BY687P LED250/NW PSR WB G2 XT EN	(0.38.0.38)SDCM<5	4000 K	>80	135 lm/W
911401515351	BY688P LED160/CW PSD WB G2 120-277XTEN	(0.313.0.324)SDCM<5	6500 K	>80	133 lm/W
911401515451	BY687P LED250/CW PSR NB G2 XT EN	(0.313.0.324)SDCM<5	6500 K	>80	135 lm/W
911401515551	BY688P LED160/NW PSD WB G2 120-277XTEN	(0.38.0.38)SDCM<5	4000 K	>80	133 lm/W
911401515651	BY687P LED250/CW PSR WB G2 XT	(0.313.0.324)SDCM<5	6500 K	>80	135 lm/W
911401515751	BY688P LED160/CW PSD WB G2 XT	(0.313.0.324)SDCM<5	6500 K	>80	133 lm/W
911401515851	BY687P LED210/NW PSR NB G2 PW9 XT	(0.38.0.38)SDCM<5	4000 K	>90	114 lm/W
911401515951	BY687P LED210/NW PSR WB G2 PW9 XT	(0.38.0.38)SDCM<5	4000 K	>90	114 lm/W

Order Code	Full Product Name	Initial chromaticity	Init. Corr. Color Temperature	Init. Color Rendering Index	Initial LED luminaire efficacy
911401516051	BY688P LED160/NW PSD WB G2 XT	(0.38.0.38)SDCM<5	4000 K	>80	133 lm/W
911401516151	BY688P LED160/CW PSD NB G2 XT	(0.313.0.324)SDCM<5	6500 K	>80	133 lm/W
911401516451	BY689P LED110/NW PSU NB G2 XT	(0.38.0.38)SDCM<5	4000 K	>80	128 lm/W
911401516551	BY688P LED160/NW PSD NB G2 XT	(0.38.0.38)SDCM<5	4000 K	>80	133 lm/W
911401516751	BY689P LED110/CW PSU NB G2 XT	(0.313.0.324)SDCM<5	6500 K	>80	128 lm/W
911401516851	BY689P LED110/CW PSU WB G2 XT	(0.313.0.324)SDCM<5	6500 K	>80	128 lm/W
911401516951	BY687P LED250/CW PSR NB G2 XT	(0.313.0.324)SDCM<5	6500 K	>80	135 lm/W
911401517051	BY689P LED110/NW PSU WB G2 XT	(0.38.0.38)SDCM<5	4000 K	>80	128 lm/W
911401517251	BY689P LED110/NW PSU NB G2 120-277XTEN	(0.38.0.38)SDCM<5	4000 K	>80	128 lm/W
911401517351	BY689P LED110/NW PSU WB G2 120-277XTEN	(0.38.0.38)SDCM<5	4000 K	>80	128 lm/W
911401517451	BY688P LED160/CW PSD NB G2 120-277XTEN	(0.313.0.324)SDCM<5	6500 K	>80	133 lm/W
911401517551	BY689P LED110/CW PSU WB G2 120-277XTEN	(0.313.0.324)SDCM<5	6500 K	>80	128 lm/W

GreenPerform Highbay HT

Order Code	Full Product Name	Initial chromaticity	Init. Corr.	Init. Color	Initial
			Color	Rendering	LED
			Temperature	Index	efficacy
911401517651	BY688P LED160/NW PSD NB G2 120-277XTEN	(0.38.0.38)SDCM<5	4000 K	>80	133 lm/W
911401517751	BY689P LED110/CW	(0.313.0.324)SDCM<5	6500 K	>80	128 lm/W

Order Code	Full Product Name	Initial chromaticity	Init. Corr.	Init. Color	Initial
			Color	Rendering	LED
			Temperature	Index	efficacy
	PSU NB G2 120-277XTEN				

Initial Performance (IEC Compliant) (2/2)

Order Code	Full Product Name	Initial luminous flux	Initial input power
911401514851	BY687P LED250/NW PSR NB G2 XT	25000 lm	185 W
911401514951	BY687P LED250/NW PSR WB G2 XT	25000 lm	185 W
911401515051	BY687P LED250/NW PSR NB G2 XT EN	25000 lm	185 W
911401515151	BY687P LED250/CW PSR WB G2 XT EN	25000 lm	185 W
911401515251	BY687P LED250/NW PSR WB G2 XT EN	25000 lm	185 W
911401515351	BY688P LED160/CW PSD WB G2 120-277XTEN	16000 lm	120 W
911401515451	BY687P LED250/CW PSR NB G2 XT EN	25000 lm	185 W
911401515551	BY688P LED160/NW PSD WB G2 120-277XTEN	16000 lm	120 W
911401515651	BY687P LED250/CW PSR WB G2 XT	25000 lm	185 W
911401515751	BY688P LED160/CW PSD WB G2 XT	16000 lm	120 W
911401515851	BY687P LED210/NW PSR NB G2 PW9 XT	21000 lm	185 W
911401515951	BY687P LED210/NW PSR WB G2 PW9 XT	21000 lm	185 W
911401516051	BY688P LED160/NW PSD WB G2 XT	16000 lm	120 W
911401516151	BY688P LED160/CW PSD NB G2 XT	16000 lm	120 W

Order Code	Full Product Name	Initial luminous flux	Initial input power
911401516451	BY689P LED110/NW PSU NB G2 XT	11000 lm	86 W
911401516551	BY688P LED160/NW PSD NB G2 XT	16000 lm	120 W
911401516751	BY689P LED110/CW PSU NB G2 XT	11000 lm	86 W
911401516851	BY689P LED110/CW PSU WB G2 XT	11000 lm	86 W
911401516951	BY687P LED250/CW PSR NB G2 XT	25000 lm	185 W
911401517051	BY689P LED110/NW PSU WB G2 XT	11000 lm	86 W
911401517251	BY689P LED110/NW PSU NB G2 120-277XTEN	11000 lm	86 W
911401517351	BY689P LED110/NW PSU WB G2 120-277XTEN	11000 lm	86 W
911401517451	BY688P LED160/CW PSD NB G2 120-277XTEN	16000 lm	120 W
911401517551	BY689P LED110/CW PSU WB G2 120-277XTEN	11000 lm	86 W
911401517651	BY688P LED160/NW PSD NB G2 120-277XTEN	16000 lm	120 W
911401517751	BY689P LED110/CW PSU NB G2 120-277XTEN	11000 lm	86 W

