



# 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

### Specifications

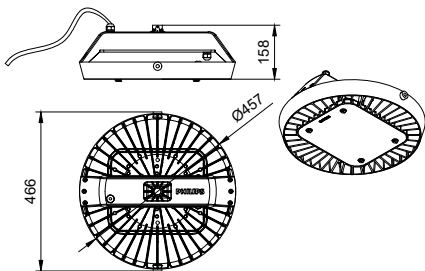
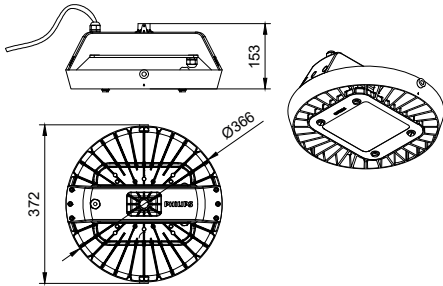
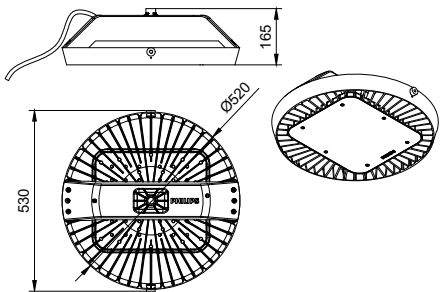


GreenPerform Highbay HT

Mounting type	Suspended
	Pipe
	Surface
Operating Temperature range	-30°C to +60 °C
Light Source	LED
Mains Voltage	220-240V / 50-60Hz
Mains connection	Flying cable
Mechanical Accessories	Hook
	Mounting Bracket
Dimming	PSU: non-dimmable
	PSD: Dimmable via Dali-broadcasting
	PSR: Dimmable via 1-10V
Control system input	DALI / 1-10V
Material	Housing: die-cast aluminium
Luminous flux	11klm - 25klm
Power consumption	86W - 185W
Luminaire efficacy	Up to 135lm/W
Correlated color temperature - CCT	4000K 6500K

Color Rendering index - 80, 90	
CRI	
Beam angle	WB
	NB
Optical cover/lens material	Glass
Optical cover/lens finish	Clear
Protection Class	Class I
IEC61140	
Mechanical impact protection	IK07
Ingress protection	IP65
Driver replaceable	Yes
Installation	Suspended
	Pipe
	Surface

Dimensional drawing





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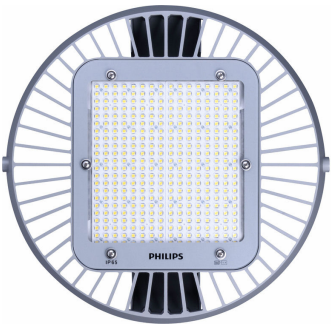
Product details



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General Information	
CE mark	CE mark
Driver included	Yes
ENEC mark	-
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
Light Technical	
Optical cover type	Tempered glass
Operating and Electrical	
Input Voltage	220 to 240 V
Line Frequency	50 to 60 Hz
Temperature	
Ambient temperature range	-30 to +60 °C
Mechanical and Housing	
Housing Color	Silver
Approval and Application	
Protection class IEC	Safety class I
Mech. impact protection code	IK07
Ingress protection code	IP65
Initial Performance (IEC Compliant)	
Luminous flux tolerance	+/-10%
Over Time Performance (IEC Compliant)	
Driver failure rate at 5000 h	0.01 %
Median useful life L80B50	60,000 hour(s)
Median useful life L90B50	45,000 hour(s)
Application Conditions	
Suitable for random switching	No

Light Technical (1/2)

Order Code	Full Product Name	Beam angle of light source	Correlated Color Temperature (Nom)	Color rendering index (CRI)	Luminous Efficacy (rated) (Nom)
911401514951	BY687P LED250/NW PSR WB G2 XT	-	4000 K	>80	135 lm/W
911401515651	BY687P LED250/CW PSR WB G2 XT	-	6500 K	>80	135 lm/W
911401515751	BY688P LED160/CW PSD WB G2 XT	- degree(s)	6500 K	>80	133 lm/W
911401515951	BY687P LED210/NW PSR WB G2 PW9 XT	-	4000 K	>90	114 lm/W
911401516051	BY688P LED160/NW PSD WB G2 XT	- degree(s)	4000 K	>80	133 lm/W
911401516451	BY689P LED110/NW PSU NB G2 XT	- degree(s)	4000 K	>80	128 lm/W
911401516751	BY689P LED110/CW PSU NB G2 XT	- degree(s)	6500 K	>80	128 lm/W
911401516851	BY689P LED110/CW PSU WB G2 XT	- degree(s)	6500 K	>80	128 lm/W
911401516951	BY687P LED250/CW PSR NB G2 XT	-	6500 K	>80	135 lm/W
911401517051	BY689P LED110/NW PSU WB G2 XT	- degree(s)	4000 K	>80	128 lm/W

Light Technical (2/2)

Order Code	Full Product Name	Luminous Flux	Optic type	Order Code	Full Product Name	Luminous Flux	Optic type
911401514951	BY687P LED250/NW PSR WB G2 XT	25,000 lm	Wide beam	911401516451	BY689P LED110/NW PSU NB G2 XT	11,000 lm	Narrow beam
911401515651	BY687P LED250/CW PSR WB G2 XT	25,000 lm	Wide beam	911401516751	BY689P LED110/CW PSU NB G2 XT	11,000 lm	Narrow beam
911401515751	BY688P LED160/CW PSD WB G2 XT	16,000 lm	Wide beam	911401516851	BY689P LED110/CW PSU WB G2 XT	11,000 lm	Wide beam
911401515951	BY687P LED210/NW PSR WB G2 PW9 XT	21,000 lm	Wide beam	911401516951	BY687P LED250/CW PSR NB G2 XT	25,000 lm	Narrow beam
911401516051	BY688P LED160/NW PSD WB G2 XT	16,000 lm	Wide beam	911401517051	BY689P LED110/NW PSU WB G2 XT	11,000 lm	Wide beam

Operating and Electrical



GreenPerform Highbay HT

Order Code	Full Product Name	Power Consumption
911401514951	BY687P LED250/NW PSR WB G2 XT	185 W
911401515651	BY687P LED250/CW PSR WB G2 XT	185 W
911401515751	BY688P LED160/CW PSD WB G2 XT	120 W
911401515951	BY687P LED210/NW PSR WB G2 PW9 XT	185 W
911401516051	BY688P LED160/NW PSD WB G2 XT	120 W

Order Code	Full Product Name	Power Consumption
911401516451	BY689P LED110/NW PSU NB G2 XT	86 W
911401516751	BY689P LED110/CW PSU NB G2 XT	86 W
911401516851	BY689P LED110/CW PSU WB G2 XT	86 W
911401516951	BY687P LED250/CW PSR NB G2 XT	185 W
911401517051	BY689P LED110/NW PSU WB G2 XT	86 W

Controls and Dimming

Order Code	Full Product Name	Dimmable
911401514951	BY687P LED250/NW PSR WB G2 XT	Yes
911401515651	BY687P LED250/CW PSR WB G2 XT	Yes
911401515751	BY688P LED160/CW PSD WB G2 XT	Yes
911401515951	BY687P LED210/NW PSR WB G2 PW9 XT	Yes
911401516051	BY688P LED160/NW PSD WB G2 XT	Yes

Order Code	Full Product Name	Dimmable
911401516451	BY689P LED110/NW PSU NB G2 XT	No
911401516751	BY689P LED110/CW PSU NB G2 XT	No
911401516851	BY689P LED110/CW PSU WB G2 XT	No
911401516951	BY687P LED250/CW PSR NB G2 XT	Yes
911401517051	BY689P LED110/NW PSU WB G2 XT	No

Initial Performance (IEC Compliant)

Order Code	Full Product Name	Initial chromaticity
911401514951	BY687P LED250/NW PSR WB G2 XT	(0.38.0.38)SDCM<5
911401515651	BY687P LED250/CW PSR WB G2 XT	(0.313.0.324)SDCM<5
911401515751	BY688P LED160/CW PSD WB G2 XT	(0.313.0.324)SDCM<5
911401515951	BY687P LED210/NW PSR WB G2 PW9 XT	(0.38.0.38)SDCM<5
911401516051	BY688P LED160/NW PSD WB G2 XT	(0.38.0.38)SDCM<5

Order Code	Full Product Name	Initial chromaticity
911401516451	BY689P LED110/NW PSU NB G2 XT	(0.38.0.38)SDCM<5
911401516751	BY689P LED110/CW PSU NB G2 XT	(0.313.0.324)SDCM<5
911401516851	BY689P LED110/CW PSU WB G2 XT	(0.313.0.324)SDCM<5
911401516951	BY687P LED250/CW PSR NB G2 XT	(0.313.0.324)SDCM<5
911401517051	BY689P LED110/NW PSU WB G2 XT	(0.38.0.38)SDCM<5

Application Conditions

Order Code	Full Product Name	Maximum dim level
911401514951	BY687P LED250/NW PSR WB G2 XT	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)
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)

Order Code	Full Product Name	Maximum dim level
911401516451	BY689P LED110/NW PSU NB G2 XT	Not applicable
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

