

NEPTUNE series

(SPE - HB)

Available from 80W to 500W IP40 / IP65

Designed for low or high ceiling, open space applications such as:

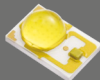
- * Warehouses
- * Logistic centers
- * Production workshops
- * Storage facilities
- * Car Showerrooms
- * Supermarkets

Product Key Features

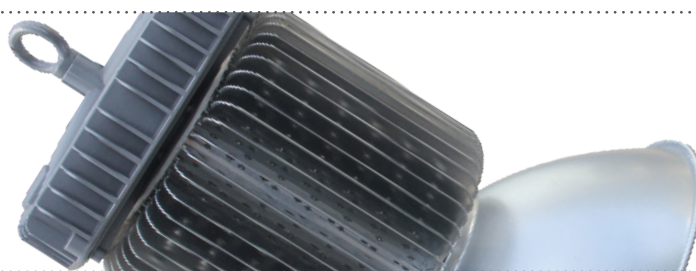
- LEDs from Lumileds, Cree, Osram, together with Meanwell drivers, provide up to 5 years warranty.
- Unique patented thermal management design to ensure low LED junction temperature.
- Extremely light weight to enhance the safety use and installation.
- Available products with maximum power up to 500W, ultra-high luminous output of over 62,500 lm.
- Both IP40 and IP65, prismatic and aluminium reflectors with different optical beam angles are available.
- Easy installation and maintenance, dust prevention, longer lifetime with high lumen maintenance.



LED vs Metal Halide Replacement Table

LED Highbay		VS	Metal Halide Highbay Light	
				
		Energy Saving up to 70%		
80W			150W	
100W / 150W			250W	
200W / 250W			400W	
300W / 350W			750W	
400W / 500W			1000W / 1500W	

Design Innovation



Build-in Heatpipe technology

- excellent heat conduction performance by incorporating mature heatpipe technology inside the heatsink.
- phase change materials (PCM) inside the heatpipe helps to effectively bring the heat away from LED module.

Fold-Fin Heatsink (FFH) technology

- formed by thin aluminum sheets and pressed into the desired fin structures by fully automated machines.
- different parts of heatsink are then soldered together via a high temperature furnace.
- resulting in a heatsink with large total surface area and extremely light weight.

Extra-safe fixture design

- additional stainless steel sling provides extra safe mechanism especially for vibrating environment.
- build-in bolt design to strongly bond together different housing parts



NEPTUNE Series SPE-HB

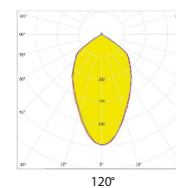
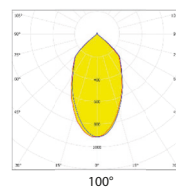
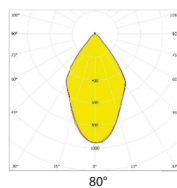
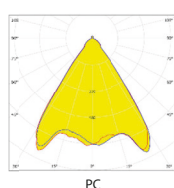
IP40 / IP65



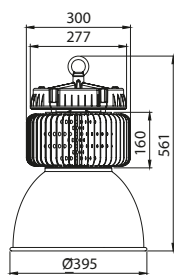
Parameter

Model No.	SPE-HB-080	SPE-HB-100	SPE-HB-150	SPE-HB-200
Input Voltage	100-305VAC	100-305VAC	100-305VAC	100-305VAC
LED Power	80 W	100 W	150 W	200 W
System Power	90 W	110 W	165 W	220 W
Luminous Flux	9,500 lm	11,500 lm	17,500 lm	23,500 lm
System Efficacy	110 lm/W	110 lm/W	110 lm/W	110 lm/W
Beam Angle	PC / 80° / 100° / 120°	PC / 80° / 100° / 120°	PC / 80° / 100° / 120°	PC / 80° / 100° / 120°
CCT (K)	4000 / 5000 / 6500	4000 / 5000 / 6500	4000 / 5000 / 6500	4000 / 5000 / 6500
CRI	80	80	80	80
Dimmable	1-10V / DALI / PWM	1-10V / DALI / PWM	1-10V / DALI / PWM	1-10V / DALI / PWM
Power Factor	> 0.90	> 0.90	> 0.90	> 0.90
Lifespan	50,000 H	50,000 H	50,000 H	50,000 H
Operating Temp.	-40°C ~ + 45°C	-40°C ~ + 45°C	-40°C ~ + 45°C	-40°C ~ + 45°C
Dimension	395 x 561mm	395 x 611mm	395 x 611mm	501 x 590mm
Weight (kg)	5,6	6,5	7	8
Certifications	CE, CB, SAA, ETL	CE, CB, SAA, ETL	CE, CB, SAA, ETL	CE, CB, SAA, ETL

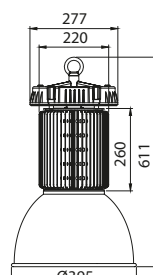
Photometrics



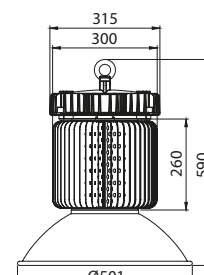
Dimensions (mm)



SPE-HB-080



**SPE-HB-100
SPE-HB-150**



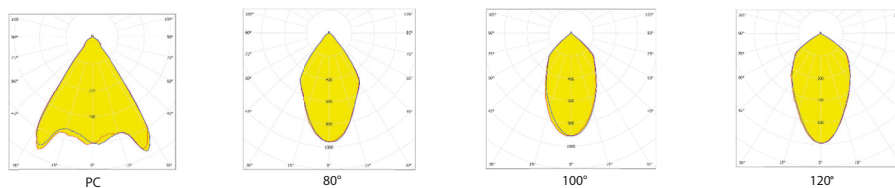
SPE-HB-200



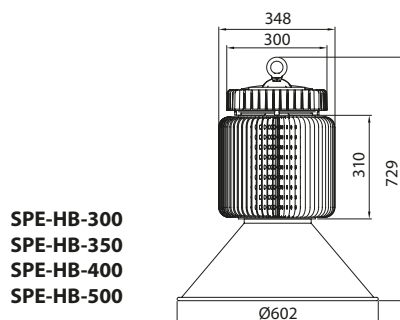
Parameter

Model No.	SPE-HB-300	SPE-HB-350	SPE-HB-400	SPE-HB-500
Input Voltage	100-305V AC	100-305V AC	100-305V AC	100-305V AC
LED Power	300 W	350 W	400 W	460 W
System Power	330 W	390 W	440W	500W
Luminous Flux	35,000 lm	41,000 lm	46,500 lm	62,500 lm
System Efficacy	110 lm/W	110 lm/W	110 lm/W	110 lm/W
Beam Angle	PC / 80° / 100° / 120°	PC / 80° / 100° / 120°	PC / 80° / 100° / 120°	PC / 80° / 100° / 120°
CCT (K)	4000 / 5000 / 6500	4000 / 5000 / 6500	4000 / 5000 / 6500	4000 / 5000 / 6500
CRI	80	80	80	80
Dimmable	1-10V / DALI / PWM	1-10V / DALI / PWM	1-10V / DALI / PWM	1-10V / DALI / PWM
Power Factor	> 0.90	> 0.90	> 0.90	> 0.90
Lifespan	50,000 H	50,000 H	50,000 H	50,000 H
Operating Temp.	-40°C ~ + 45°C	-40°C ~ + 45°C	-40°C ~ + 45°C	-40°C ~ + 45°C
Dimension	602 x 729 mm	602 x 729 mm	602 x 729 mm	602 x 729 mm
Weight (kg)	15	15,5	15,5	15,5
Certifications	CE, CB, SAA, ETL	CE, CB, SAA, ETL	CE, CB, SAA, ETL	CE, CB, SAA, ETL

Photometrics



Dimensions (mm)

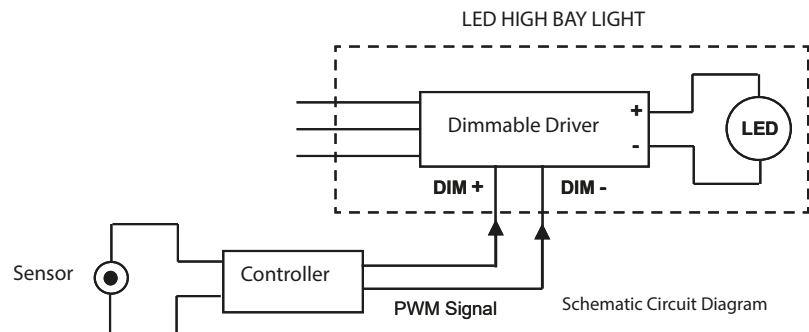


NEPTUNE Series SPE-HB

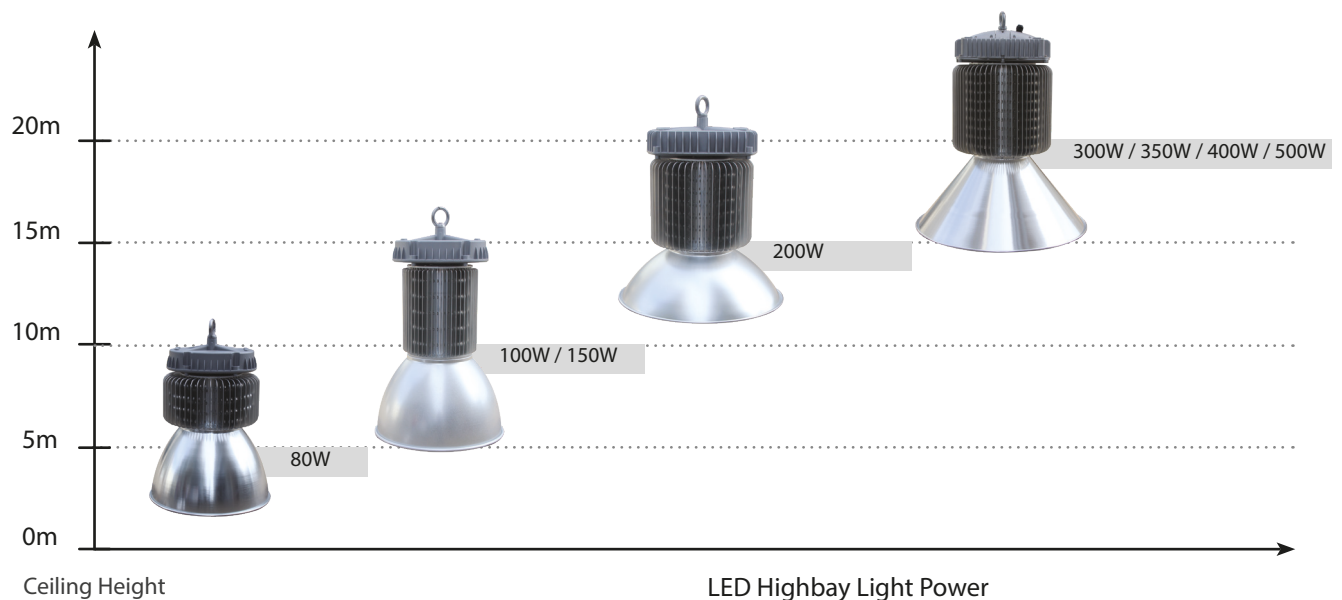
IP40 / IP65

LED Highbay Light with External Sensors

All our LED high bay lights (dimmable version) are available for connection to external motion / occupancy sensors or day sensors



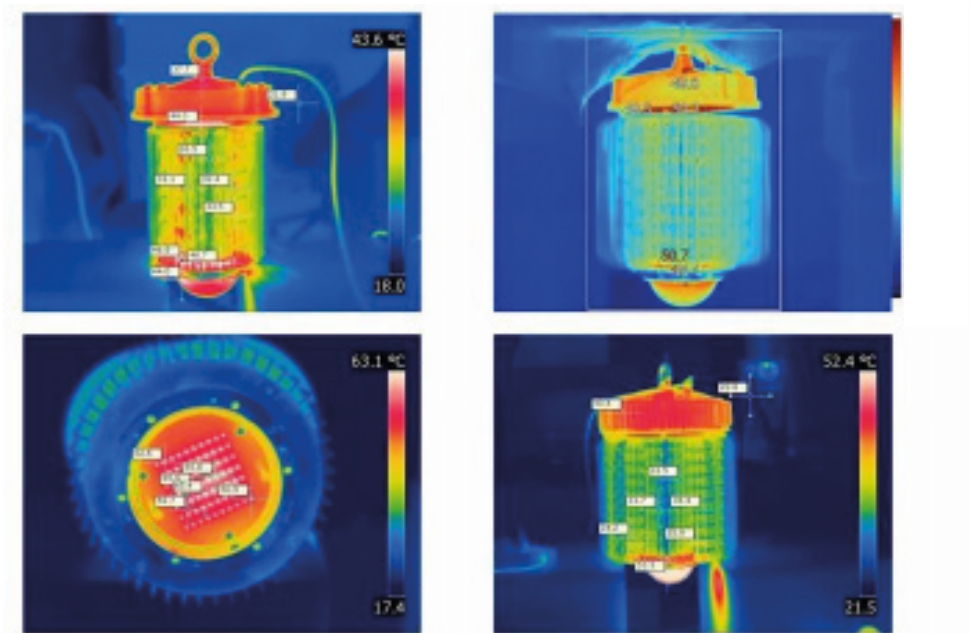
Installation Height Guideline



Remark:

- Above suggested installation height is for reference only.
- The actual ground illumination level depends on lighting layout such as luminaire separation and surrounding objects.
- SpektraLED's project teams support customers in photometric calculation for different lighting scenarios.

Thermal Performance of LED Highbay Light



* All of our products are designed for superior thermal performance to ensure long lifetime operation.



NEPTUNE Series SPE-HB

IP40 / IP65



LED Highbay Light Product Summary

Model No.	Reflector Type	LED Light Source	Color Temp	Dimming Control	IP Rating
SPE-HB-080	PC	Lumileds	4000K	Dimmable (1-10V) (DALI) (PWM)	IP 40
SPE-HB-100	80°		5000K		IP 65
SPE-HB-150	100°		6500K		
SPE-HB-200	120°	Cree		Non-Dimmable	
SPE-HB-300		OSRAM			
SPE-HB-350					
SPE-HB-400					
SPE-HB-500					

Note:

(1) Other color tempature available upon request



Accessories Order Information

PC reflector
Order Code: 001101



120° Aluminium reflector
Order Code: 001104



80° Aluminium reflector
Order Code: 001102



Bottom glass cover
Order Code: 001202



100° Aluminium reflector
Order Code: 001103



Frosted LED module
Order Code: 001301

