

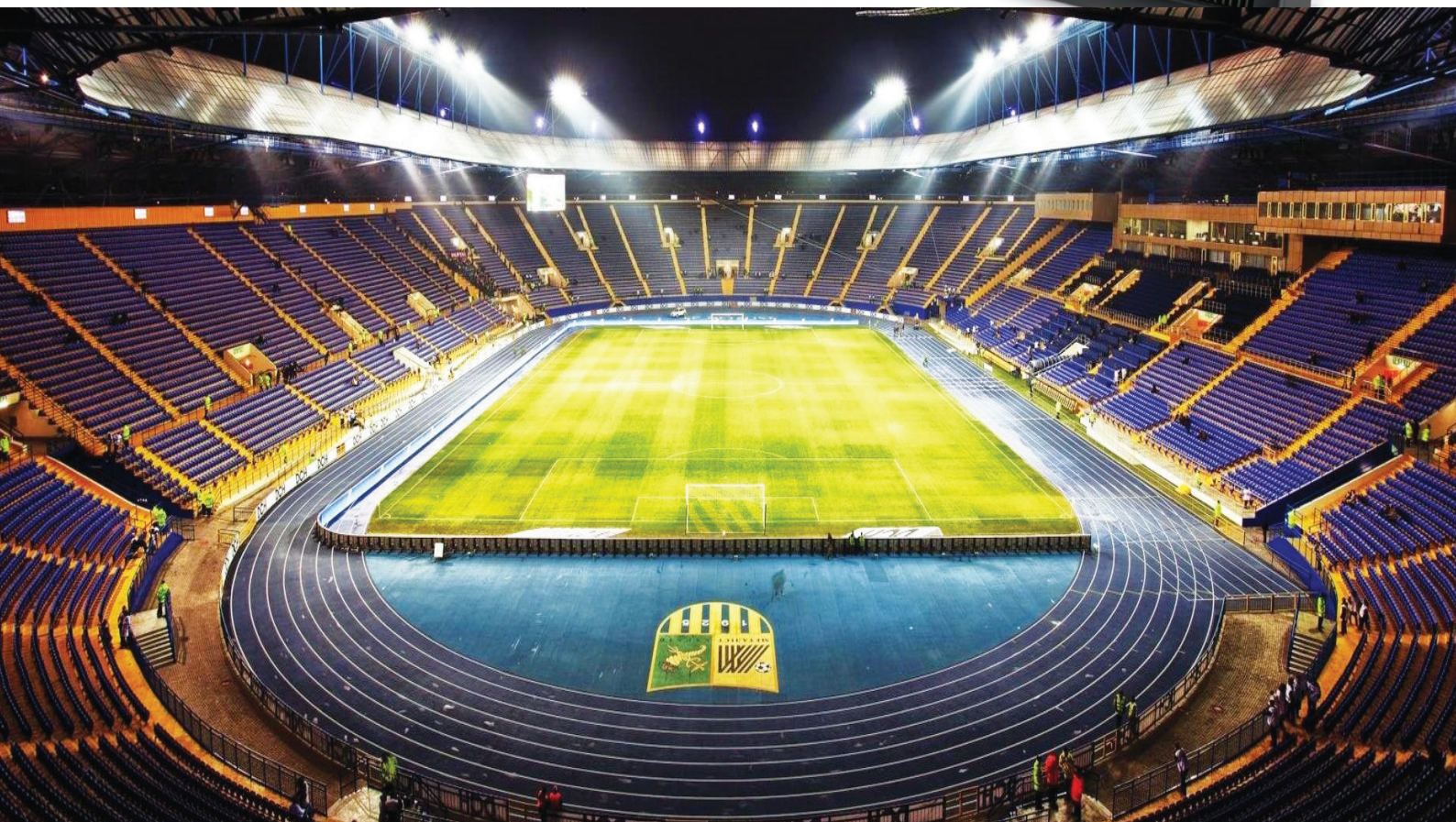
APOLLO series

(SPE - FL)

Available from 60W to 800W IP65

Designed for sports, site and area applications such as:

- * Class I, II & III outdoor sports fields & courts
- * Indoor arenas
- * Signage & Billboards
- * Ports & Depots
- * Heavy Industrial and wet locations



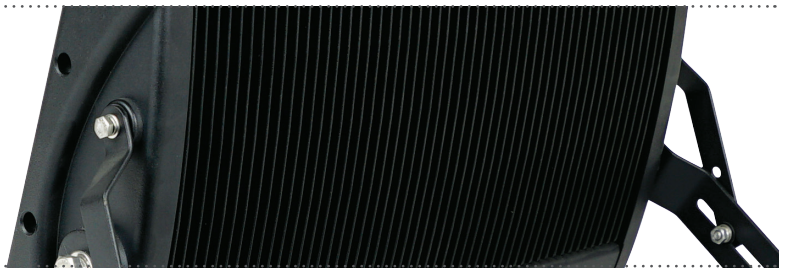
APOLLO Series SPE-FL

IP65

LED vs Metal Halide Replacement Table

LED Flood Light	VS	Metal Halide Flood Light
Energy Saving 60%		
60W / 80W		150W
100W / 150W		250W
200W / 250W		400W
300W / 350W		750W
400W / 500W		1000W
600W		1500W
800W		2000W

Design Innovation



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.

Air ventilation housing design

- the housing is designed in a way to allow very effective air flow across the heatsink.
- it helps to bring the heat away from LED light source by natural convection.

Distributed heat source

- distributed light source panel configuration to spread the heat source over large area.
- greatly reduced thermal density helps to lower the LED junction temperature.

APOLLO Series SPE-FL

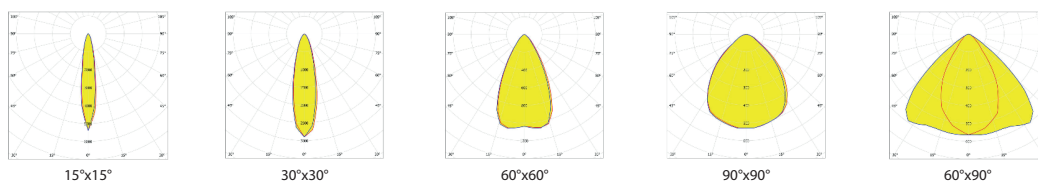
IP65



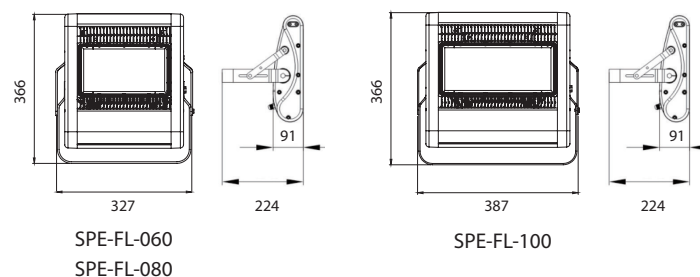
Parameter

Model No.	SPE-FL-060	SPE-FL-080	SPE-FL-100
Input Voltage	100-305V AC	100-305V AC	100-305V AC
LED Power	60 W	80 W	100W
System Power	66 W	90 W	110W
Luminous Flux	7,200 lm	9,600 lm	12,000 lm
System Efficacy	110 lm/W	110 lm/W	110 lm/W
Beam Angle	15°x15° / 30°x30° / 60°x60° / 90°x90° / 60°x90° / 85°x45° / 85°x90° / 60°x135° / 85°x 135°		
CCT (K)	3000 / 4000 / 5000 / 6500	3000 / 4000 / 5000 / 6500	3000 / 4000 / 5000 / 6500
CRI	80	80	80
Dimmable	1-10V /DALI	1-10V /DALI	1-10V /DALI
Power Factor	> 0.90	> 0.90	> 0.90
Lifespan	50,000 H	50,000 H	50,000 H
Operating Temp.	-40°C ~ + 45°C	-40°C ~ + 45°C	-40°C ~ + 45°C
Dimension	327 x 91x 366 mm	327 x 91 x 366 mm	387 x 91 x 366 mm
Weight (kg)	5	6	6,5
Certifications	CE, CB, SAA, ETL	CE, CB, SAA, ETL	CE, CB, SAA, ETL

Photometrics



Dimensions (mm)



APOLLO Series SPE-FL

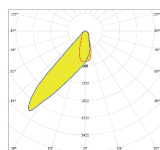
IP65



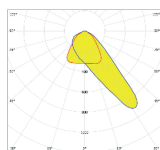
Parameter

Model No.	SPE-FL-120	SPE-FL-150	SPE-FL-200
Input Voltage	100-305V AC	100-305V AC	100-305V AC
LED Power	120 W	150 W	200W
System Power	135 W	170 W	220W
Luminous Flux	14,000 lm	18,000 lm	24,000 lm
System Efficacy	110 lm/W	110 lm/W	110 lm/W
Beam Angle	15°x15° / 30°x30° / 60°x60° / 90°x90° / 60°x90° / 85°x45° / 85°x90° / 60°x135° / 85°x 135°		
CCT (K)	3000 / 4000 / 5000 / 6500	3000 / 4000 / 5000 / 6500	3000 / 4000 / 5000 / 6500
CRI	80	80	80
Dimmable	1-10V /DALI	1-10V /DALI	1-10V /DALI
Power Factor	> 0.90	> 0.90	> 0.90
Lifespan	50,000 H	50,000 H	50,000 H
Operating Temp.	-40°C ~ + 45°C	-40°C ~ + 45°C	-40°C ~ + 45°C
Dimension	387 x 91 x 366 mm	387 x 91 x 366 mm	507 x 91 x 366 mm
Weight (kg)	6,5	8	8
Certifications	CE, CB, SAA, ETL	CE, CB, SAA, ETL	CE, CB, SAA, ETL

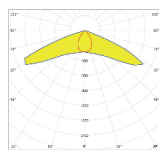
Photometrics



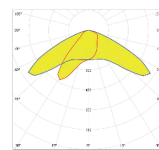
85°x45°



85°x90°

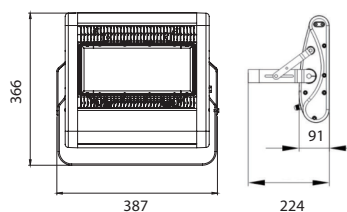


60°x135°

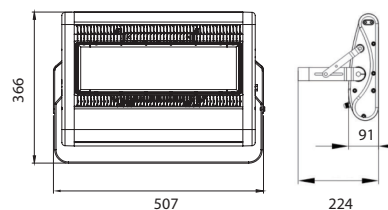


85°x135°

Dimensions (mm)



SPE-FL-120 / SPE-FL-150



SPE-FL-200

APOLLO Series SPE-FL

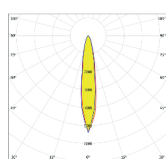
IP65



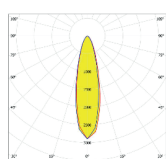
Parameter

Model No.	SPE-FL-250	SPE-FL-300	SPE-FL-350	SPE-FL-400
Input Voltage	100-305VAC	100-305VAC	100-305VAC	100-305VAC
LED Power	250 W	300 W	350 W	400 W
System Power	280 W	330 W	390 W	440 W
Luminous Flux	30,000 lm	36,000 lm	42,000 lm	48,000 lm
System Efficacy	110 lm/W	110 lm/W	110 lm/W	110 lm/W
Beam Angle	15°x15° / 30°x30° / 60°x60° / 90°x90° / 60°x90° / 85°x45° / 85°x90° / 60°x135° 85°x 135°			
CCT (K)	3000 / 4000 / 5000 / 6500	3000 / 4000 / 5000 / 6500	3000 / 4000 / 5000 / 6500	3000 / 4000 / 5000 / 6500
CRI	80	80	80	80
Dimmable	1-10V /DALI	1-10V /DALI	1-10V /DALI	1-10V /DALI
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	567 x 91x 366 mm	567 x 91x 366 mm	533 x 91x 621 mm	533 x 91x 621 mm
Weight (kg)	9	17	17,5	19
Certifications	CE, CB, SAA, ETL	CE, CB, SAA, ETL	CE, CB, SAA, ETL	CE, CB, SAA, ETL

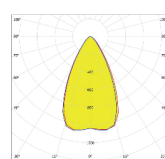
Photometrics



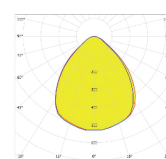
15°x15°



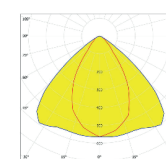
30°x30°



60°x60°

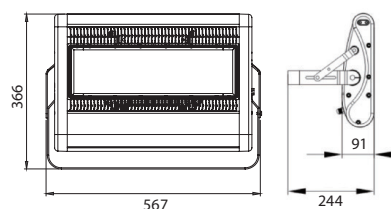


90°x90°

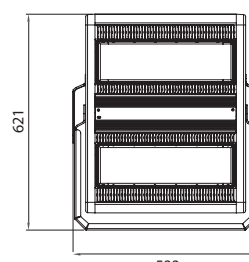


60°x90°

Dimensions (mm)



SPE-FL-250
SPE-FL-300



SPE-FL-350
SPE-FL-400

APOLLO Series SPE-FL

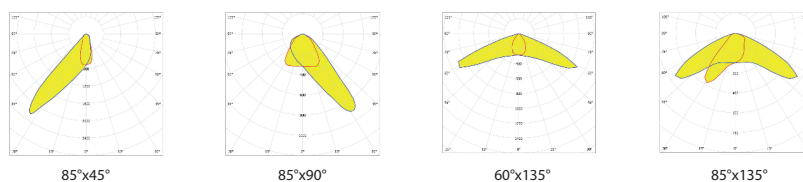
IP65



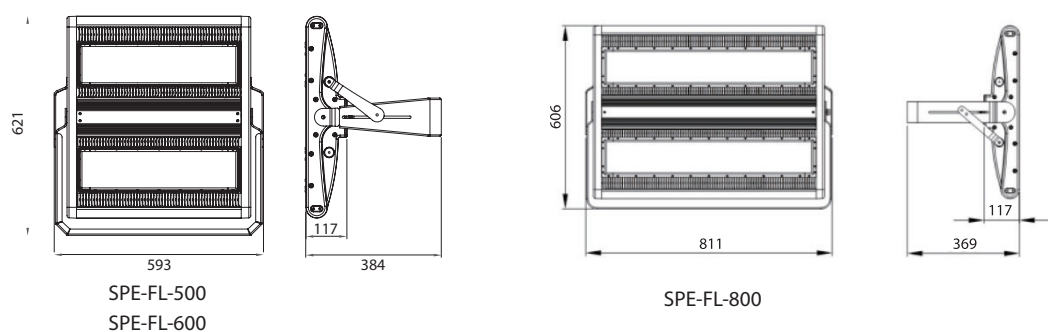
Parameter

Model No.	SPE-FL-500	SPE-FL-600	SPE-FL-800
Input Voltage	100-305V AC	100-305V AC	100-305V AC
LED Power	500 W	580 W	800W
System Power	550 W	640 W	880W
Luminous Flux	60,000 lm	70,500 lm	96,800 lm
System Efficacy	110 lm/W	110 lm/W	110 lm/W
Beam Angle	15°x15° / 30°x30° / 60°x60° / 90°x90° / 60°x90° / 85°x45° / 85°x90° / 60°x135° / 85°x 135°		
CCT (K)	3000 / 4000 / 5000 / 6500	3000 / 4000 / 5000 / 6500	3000 / 4000 / 5000 / 6500
CRI	80	80	80
Dimmable	1-10V /DALI	1-10V /DALI	1-10V /DALI
Power Factor	> 0.90	> 0.90	> 0.90
Lifespan	50,000 H	50,000 H	50,000 H
Operating Temp.	-40°C ~ + 45°C	-40°C ~ + 45°C	-40°C ~ + 45°C
Dimension	593 x 117x 621 mm	593 x 117x 621 mm	811 x 117x 606 mm
Weight (kg)	27	27,5	29,5
Certifications	CE, CB, SAA, ETL	CE, CB, SAA, ETL	CE, CB, SAA, ETL

Photometrics

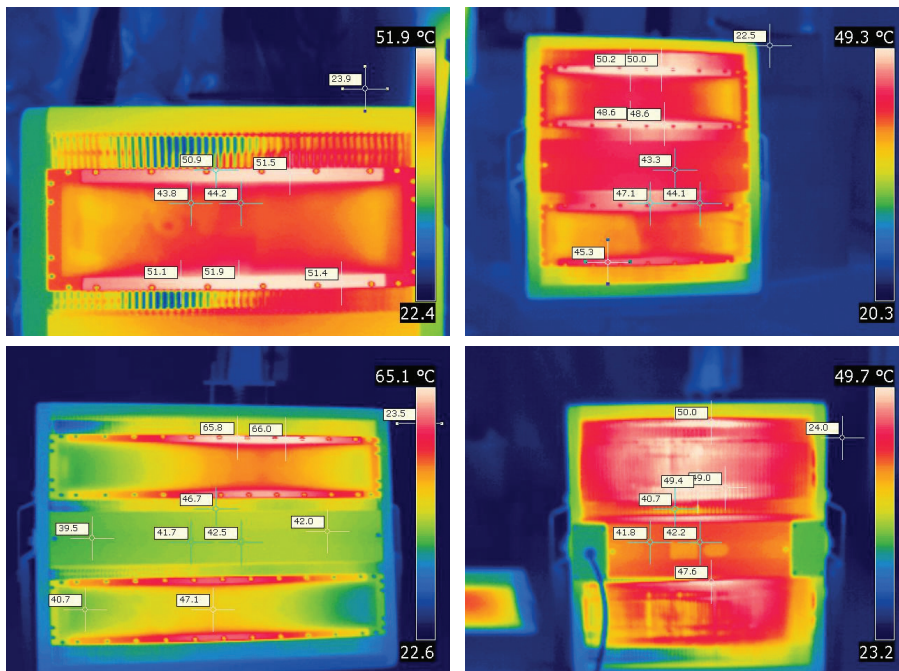


Dimensions (mm)



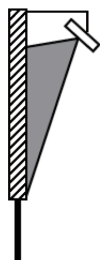


Thermal Performance

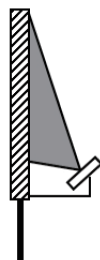


All of our products are designed for superior thermal performance to ensure long lifetime operation.

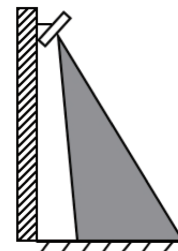
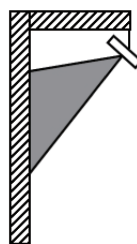
Installation Configuration Schematics



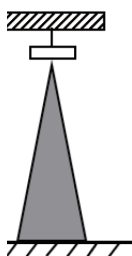
Arm-mounted
(outdoor signage board)



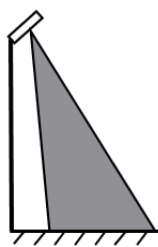
Canopy-mounted
(shop facade)



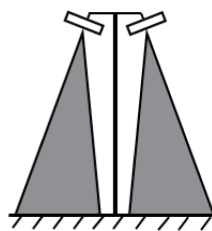
Wall-mounted
(outdoor playground)



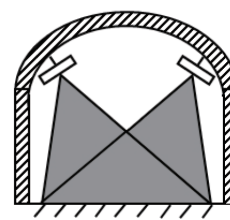
Ceiling-mounted
(warehouse)



Pole-mounted
(outdoor plaza)



Wall-mounted
(outdoor playground)



Wall-mounted
(tunnel lighting)

Parameter

Model No.	Reflector Type	LED Light Source	Color Temp	Dimming Control	IP Rating
SPE-FL-060	15°x15°	Lumileds / Cree / OSRAM	3000K	Dimmable (PWM input) / (1-10V input)	IP65
SPE-FL-080	30°x30°		4000K		
SPE-FL-100	60°x60°		5000K		
SPE-FL-120	90°x90°		6500K		
SPE-FL-150	60°x90°			DALI	
SPE-FL-200	85°x45°			Non-Dimmable	
SPE-FL-250	85°x90°				
SPE-FL-300	60°x135° (symmetric)				
SPE-FL-350					
SPE-FL-400	85°x135° (asymmetric)				
SPE-FL-600					
SPE-FL-800					

Note:

- (1) Other color temperature available upon request
- (2) All models are IP65 rating
- (3) Available housing color: Black / White / Grey

Accessories Order Information



Item
15°x15° lens



Item
40°x40° lens



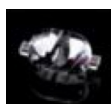
Item
30°x30° lens



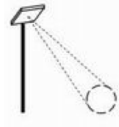
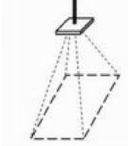
Item
60°x60° lens



Item
60°x135° lens
(symmetric)



Item
85°x135° lens
(asymmetric)

Lens Type	Light Pattern	Projection Schematic
Round Type	 round	
Rectangular	 symmetric	
	 asymmetric	