

MASTER-LEE ENGINEERED PRODUCTS INC.

The Master-Lee Engineered Products (MEPI) LED Floodlight - Apollo 100K



*LED Floodlight – Apollo 100K
P/N #D2959*

Master-Lee would like to introduce our brightest, most powerful LED light across our product line, the **Apollo 100K**.

Versatility was the core design intent with focus on efficient operability submerged in water as well as in open air environments. The **Apollo 100K** has been designed to operate across numerous industrial applications, such as: **commercial nuclear power, marine, sub-sea, transportation, construction**, etc.

The **Apollo 100K** provides up to 110,000 lumens of dispersed, white light using the latest in LED technology. With a wide beam array of light, positioning the **Apollo 100K** just below the water's surface is all that's required to illuminate large surfaces for underwater video inspections/monitoring, reactor service and fuel pool work, or general area lighting. Such a high light output gives our customers the flexibility to do more with less, as the **Apollo 100K** can **provide the illumination of two or more traditional (tungsten/quartz halogen) lights**. Incorporating LED lighting technology provides thousands of maintenance-free operating hours, reducing your re-lamp, installation, and removal times.

Fully dimmable from 100% output to 10% power gives the end user total control allowing the light to perform exactly as needed. If it's not the user adjusting light output based on conditions, it's the conditions adjusting light output. The **Apollo 100K** incorporates a unique safety feature, **Auto-Dimming**, to protect itself from thermal overload. When the **Apollo 100K** is removed from water, its primary cooling medium, its operating temperature begins to rise. As this occurs, it senses the temperature increase and begins to lower its light output to maintain a safe operating level.

The Apollo 100K has an adjustable (0-45 degrees) mounting bracket and weighs under 50 pounds (15 pounds in water) for easy, manual installation/removal.



*For additional information
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LED Floodlight – Apollo 100K Technical Specifications

Part Number D2959 – Apollo 100K Light and Power Supply Package



Lighting/Electrical	
Operating Voltage	100~240 VAC, 50~60Hz
Current @ 100% Power	Up to 7.0 Amps
Light Output	Up to 110,000 Lumens
Light Color Temperature	5000K (white light)
LED Life	50,000 hours (>70% lumen output)
Radiation tolerance	Not approved for high-radiation exposure (See Helios product line)
Waterproof depth rating	IP68 (pending); 30-ft
Dimming	100-10% manual; 100-50% auto (temperature based)
Light Panel positions	0-45 degrees (down from horizontal)
Operating temperature (8F)	165 (max. in-air); ~135 (in water)
Power Factor %	92
LED Efficacy (@ 85C)	159 lumens/watt
LED Flux (@85C)	100,300 lumens
FME Equipped	Yes
Protection	GFCI; Thermal Overload; Short Circuit; Over Voltage
Warranty	2-Year; Limited; Parts replacement

Physical – Panel Light

Part Number	D2960
Length	18 in
Height	12 in
Width	3 in
Weight	36 lb
Cable Length	Up to 100 ft
Material	Aluminum; Stainless steel protective lens cover
Lens Material	Polycarbonate

Physical – Panel Mounting Bracket

Length	6 in
Width	4 in
Height	12 in
Weight	5 lb
Material	Aluminum