

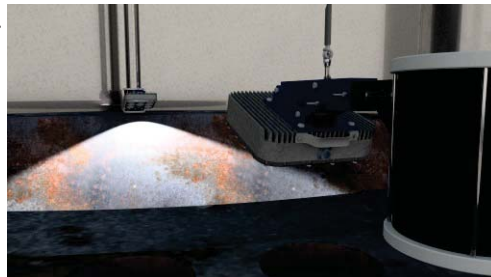
MASTER-LEE ENGINEERED PRODUCTS INC.

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



*LED Floodlight – Helios 100K
P/N #D3010*

Providing up to **110,000 lumens** of dispersed, white light using the latest in LED technology, the **Helios 100K™** is best suited for lighting large **underwater** areas, such as reactor cores and spent fuel pools, or **in-air** areas such as refueling cavities. Designed to operate at **depths to 150-ft** and within close proximity to irradiated fuel assemblies, the **Helios 100K™** is the ideal solution to **illuminate reactor cores** for video inspections or fuel movement. Used in conjunction with our Guide Stud Mounting Kits, two **Helios 100K™** systems will brightly illuminate a reactor core all the way to the core plate. Such a high light output gives our customers the flexibility to do more with less, as the **Helios 100K™** can provide the illumination of two or more traditional (tungsten/quartz halogen) lights. This not only reduces the amount of required electrical outlets, as two **Helios 100K™** lights operate on one 15-Amp circuit, but also the amount of time spent positioning lights within the core is reduced. Additionally, incorporating LED lighting technology provides **thousands of maintenance-free operating hours**, reducing your re-lamp, installation, and removal times.



Master-Lee would like to introduce our brightest, **high-radiation tolerant** LED light across our product line, the **Helios 100K™**. Versatility was the core design trait with focus on efficient operability submerged in water as well as in open air environments. The **Helios 100K™** has been designed to operate across numerous industrial applications, such as: commercial nuclear power, marine, sub-sea, transportation, construction, etc.

The Helios 100K has an adjustable (0-45 degrees) mounting bracket and weighs under 25 pounds (10 pounds in water) for easy, manual installation/removal.



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

Part Number D3010 – Helios 100K Light and Power Console Package



Lighting/Electrical	
Operating Voltage	100~240 VAC, 50~60Hz
Size/Weight (Power Console)	13" x 11" x 3"; 12 lb
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	Approved for extended use in Reactor Core & near fuel assemblies
Waterproof depth rating	150-ft
Dimming	100-10% manual; 100-50% auto (temperature based)
Light Panel positions	0-90 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	Thermal Overload; Short Circuit; Over Voltage; Fuse
Warranty	2-Year; Limited; Parts replacement

Physical – Panel Light	
Part Number	D3010
Length	12 in
Height	12 in
Width	3 in
Weight	25 lb
Cable Length	75-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

Physical – Guide Stud Mount	
Length	17 in
Width	9 in
Height	12 in
Weight	9 lb
Material	Aluminum; nylon

