

# MASTER-LEE ENGINEERED PRODUCTS INC.

*The Master-Lee Engineered Products (MEPI) LED Drop Floodlight – Helios 75K*



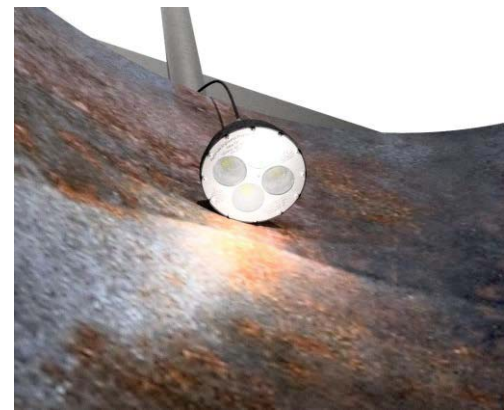
*LED Drop Floodlight – Helios 75K  
P/N #D3183*

Providing up to **78,000 lumens** of dispersed, white light using the latest in LED technology, the **Helios 75K™** is best suited for lighting large **underwater** areas, such as reactor cores and spent fuel pools, or **in-air** areas such as refueling cavities. The **Helios 75K™** has been engineered to be **compact, lightweight, rugged**, yet versatile to be quickly deployed to nearly any working environment underwater or in open air to compete with its big brother, the **Helios 100K™ Floodlight**, for center stage. Designed to operate at **depths to 150-ft** and within close proximity to irradiated fuel assemblies, the **Helios 75K™** is the ideal solution to **illuminate reactor cores** for video inspections or fuel movement. Such a high light output gives our customers the flexibility to do more with less, as the **Helios 75K™** 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 75K™** 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 “drop-style” LED light** across our product line, the **Helios 75K™**. Designed to be as powerful as a large floodlight but compact and rugged enough to play the role of an area drop light, the **Helios 75K™** shines brightly in any environment. **In-air or underwater**, this **dimnable** LED light offers more than enough light for illuminating large areas.

*The Helios 75K weighs under 15 pounds (5 pounds in water) for easy, manual installation/removal by its strain-relief detachable cable.*



*For additional information contact MEPI at:*

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MEPI

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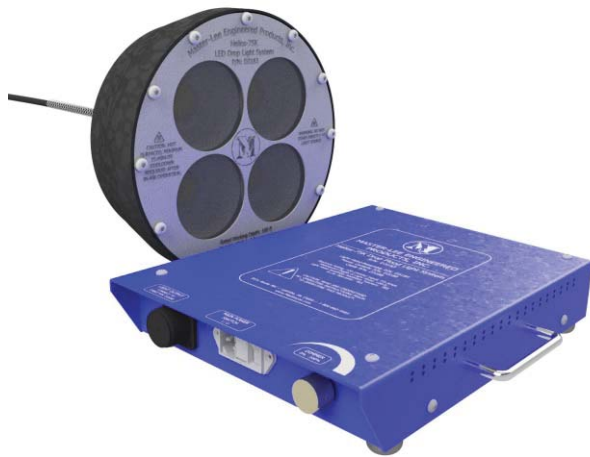


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# MASTER-LEE ENGINEERED PRODUCTS INC.

## LED Drop Floodlight – Helios 75K Technical Specifications

### Part Number D3183 – Helios 75K Light and Power Console Package



Lighting/Electrical	
Operating Voltage	100~240 VAC, 50~60Hz
Current @ 100% Power	Up to 7.0 Amps
Size/Weight (Power Console)	13" x 11" x 3"; 12 lb
Light Output	Up to 78,000 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; 100-30% auto (temperature based)
Light Panel positions	Vertical hanging (custom brackets available)
Operating temperature (8F)	165 (max. in-air); ~135 (in water)
Power Factor %	92
LED Efficacy (@ 85C)	152 lumens/watt
LED Flux (@85C)	70,900 lumens
FME Equipped	Yes
Protection	Thermal Overload; Short Circuit; Over Voltage; Fuse
Warranty	2-Year; Limited; Parts replacement

Physical – Panel Light	
Part Number	D3183
Length	12 in
Height	12 in
Width	3 in
Weight	13 lb
Cable Length	75-ft
Material	Aluminum; Stainless steel protective lens cover
Lens Material	Polycarbonate

