

MASTER-LEE ENGINEERED PRODUCTS INC.

The Master-Lee Engineered Products (MEPI) LED Helios-75K CoreLite



*LED Helios-75K CoreLite
P/N #D3242*

Providing up to **78,000 lumens** of dispersed, white light using the latest in LED technology, the **Helios 75K™ CoreLite** is best suited for lighting the reactor core in support of refueling and inspection service operations. The **Helios 75K™ CoreLite** has been engineered to be **compact, lightweight, rugged**, and is specially equipped with a custom mounting pin to position itself securely in a flow hole of the reactor vessel core plate. The ease of positioning the light and its intense light output permits fewer moves during critical path times, ultimately **saving time**. Designed to operate at **depths to 150-ft** and within close proximity to irradiated fuel assemblies, the **Helios 75K™ CoreLite** 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™ CoreLite** can provide the illumination of two or more traditional (tungsten/quartz halogen) lights. 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 area “drop-style” LED light** across our product line, the **Helios 75K™ CoreLite**. 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™ CoreLite** 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 CoreLite** weighs just 10 pounds (5 pounds in water) for easy, manual installation/removal by its strain-relief detachable cable.*



*For additional information
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LED Helios 75K CoreLite Technical Specifications

Part Number D3242 – Helios 75K CoreLite System



Physical –Light Head	
Part Number	D3245
Length	19 in
Diameter	4 in
Width	n/a
Weight	10 lb
Cable Length	100-ft
Material	Aluminum (hard anodized)
Lens Material	Polycarbonate



Lighting/Electrical	
Operating Voltage	90~305 VAC, 50~60Hz
Current @ 100% Power	Up to 5.0 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	100-ft
Dimming	100-10% manual; 100-30% auto (temperature based)
Light Head positions	Vertical hanging; Core plate flow hole mounting
Operating temperature (8F)	165 (max. in-air); ~135 (in water)
Power Factor %	98
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

