
Project: _____ Catalog # _____

Date: _____ Prepared by: _____

Notes: _____ Approved Signature: _____

Aphos™ is a new energy-efficient line of built-to-last LED luminaires available for mounting to ceilings. Ideal applications include parking garages and warehouses. Aphos offers a variety of illumination levels, color temperatures, controls and accessories that are ideal for both indoor and outdoor use. Modular custom optics effectively focus light on the task while reducing unwanted glare.



SPECIFICATION FEATURES

Construction

A combination of die-casting and extruded aluminum construction provide both durability and superior heat management. Installation and maintenance are facilitated by field replaceable LED boards, driver and surge protector. The LED boards and optics are completely sealed, offering superior protection against environmental factors such as water, insects and dirt, as well as against the demands of routine maintenance and cleaning. Silicon gaskets and UV-stabilized acrylic lenses help ensure a long service life and consistent performance.

Mounting

Special mounting assemblies are available for a variety of ceiling installations. Standard fixture mounts to a 4" surface or recessed mounted junction box. A variety of other mounting options are available including pendant and trunnion accessories. All Aphos luminaires also feature quick connects and disconnects, wire strain relief and single tool entry for easy installations and maintenance.

Optics

Modular custom optics provide light on task and maximize optical transmission efficiency. The Aphos luminaire provides a vast variety of different optical distribution patterns including round, rectangular and square configurations, to provide the level of light required for a specific application. Optical distribution patterns, lumen levels and color temperatures are interchangeable and easily replaceable.

Reliability

Unique to Aphos luminaires is a patented dynamic air flow thermal management design. Thermal convection draws air flow through the specially designed heat sink structure where a chimney effect is created to accelerate air flow. By increasing airflow above what is typical for heat sink structures, the case and junction temperatures are lowered to provide greater reliability and superior lumen maintenance. Surface mount technology adheres the LED to the printed aluminum circuit board, thus transferring heat from the LED packages to the custom designed aluminum extrusion housing. Extensive product testing has been conducted to ensure the effectiveness of this unique design in protecting the product and its components from heat, vibration and water intrusion.

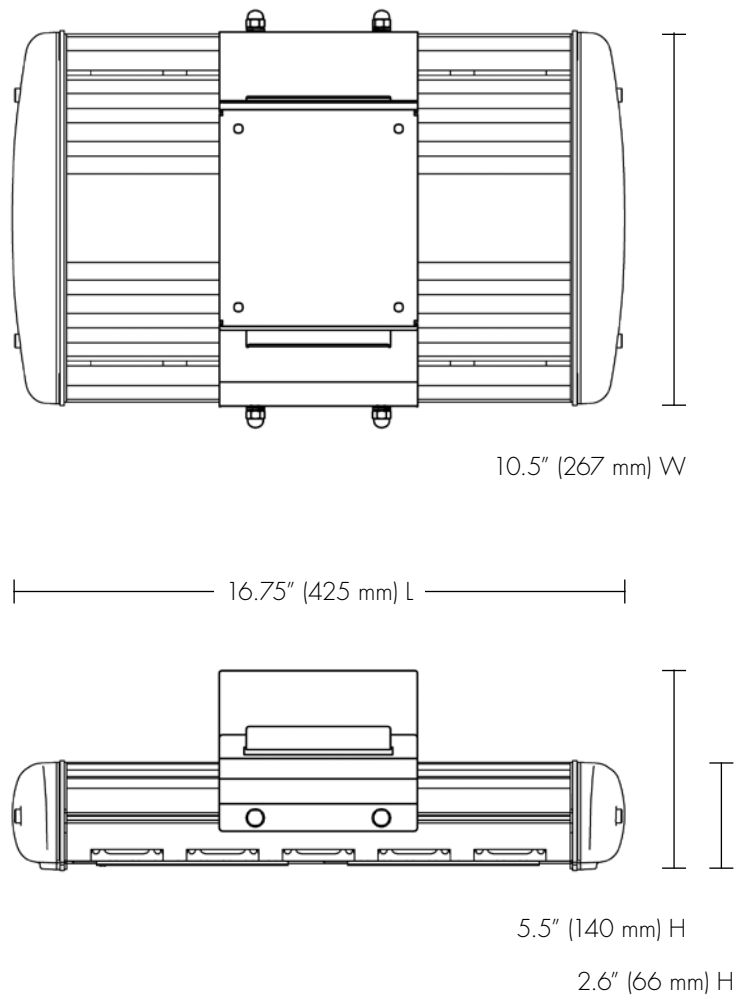
Electrical

The LED driver mounts to the aluminum extrusion housing for optimal heat management. A replaceable surge protector is built to withstand 10kV of transient line surge. As a result of these exclusive features, Aphos is suitable for -35°C to 40°C ambient conditions. The driver adapts to a variety of voltage ranges and is 0-10V dimming capable, which is not only energy-efficient but also provides an array of light levels to adapt to numerous applications.

Finish

An enduring powder-coated finish provides long-term protection against ultraviolet light and chipping. Available in multiple color options, including white, black, silver and bronze.

DIMENSIONS



CERTIFICATION LISTINGS

ISO 9001:2008 Certified

Manufacturing and Business Processes

ISO 14001:2004 Certified

Environment Regulatory Requirements

OHSAS 18001:2007 Certified

Health & Safety Requirements

ELECTRICAL CHARACTERISTICS

.914 Power Factor*

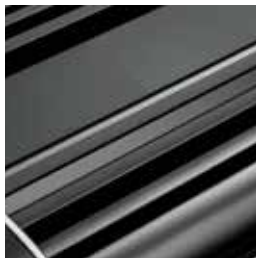
<20% Total Harmonic Distortion

-35°C to 40°C Ambient Operating Conditions**

* Based on 120W driver

** Consult factory for additional ambient conditions.

FINISHES



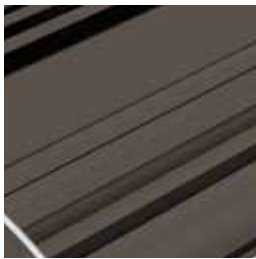
BLACK



WHITE



SILVER



DARK BRONZE

EPA

Calculated Effective Projected Area (Sq. Ft.)

Luminaire: .32 ft²

AMBIENT DATA

Ambient Temperature Lumen Multiplier

15°C 1.02

25°C 1.00

40°C 0.98

WATTAGE SUMMARY

Model	LED Quantity	Drive Current (mA)	Luminaire Wattage	Luminaire Lumens	Lumen Maintenance Hours (L70 at 25°C)	Lumen Maintenance Hours (L70 at 40°C)
L3	16	875	43	4,110	192,000	185,000
L7	32	700	75	7,076	197,000	186,000
L10	64	525	105	10,510	191,000	184,000

Note: Values derived from LM-79 test reports, LM80 Test Reports, TM-21 calculations; refer to Photometric data for specific luminaire performance.

SHIPPING INFO

Approximate Net Weight

Luminaire: 15 lbs

ENGINEERING EXCELLENCE



ORDERING

SAMPLE NUMBER: CM-L340-27-UK-RE1N

SERIES	LED	OPTICS	COLOR RENDERING	DRIVER	HOUSING	ELECTRONICS	OPTIONS (FACTORY INSTALLED)		
Aphos Ceiling Mount	Initial Absolute Lumens	CCT (Color)	Type	CRI	Voltage	Finish	Photocell	Wiring	Control Option
CM	—	—	7	—	—	—	—	—	—
CM	L3 ¹	40 4000K	2 Type II	7 70 Typical CRI	U 120V-277V	K Black	R NEMA Photocell Receptacle	E1	N Motion Sensing
	L7 ¹	50 5000K	2A Type II Asymmetric	H 480V-347V	W White	V No Photocell Receptacle	E2		
	L10 ¹		3 Type III		S Silver				
			5S Type V Short		N Dark Bronze				
			5M Type V Medium		Q ² Custom				
WIRING OPTIONS									
E1 Commercial Terminal Block #12 AWG									
E2 Wire Leads with Weatherproof Connectors									

¹ Reference photometric data sheet for lumen levels based on color temperature and distribution type.

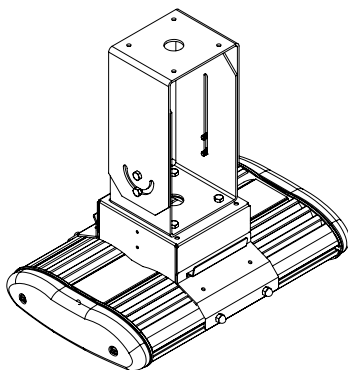
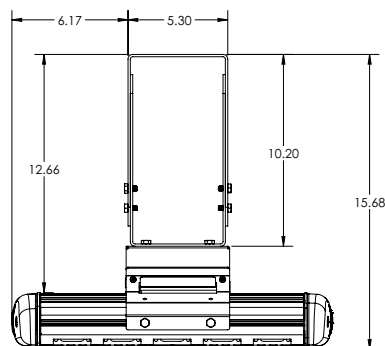
² Consult factory when ordering custom finishes.

¹ Reference photometric data sheet for lumen levels based on color temperature and distribution type.

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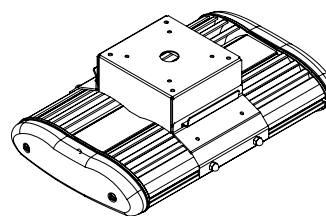
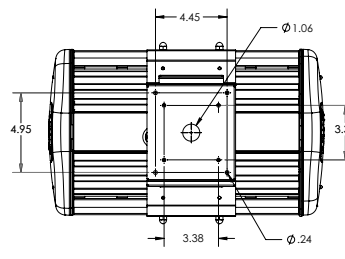
ACCESSORIES

TRUNNION MOUNT



PENDANT MOUNT

Mounts with 3/4" Nominal Pipe Size



Consult factory for non-standard mounting options.



CMR100
10kV Circuit Module Replacement

- Results may vary from test due to power, ambient conditions and individual component performance variations.
- Data is provided to estimate typical performance.
- Engineering estimates and data are based on initial absolute lumens.



PC1000
Twistlock NEMA Photocontrol Multi-Tap (120V-277V)

- Lumen output may vary 10% due to LED manufacturer flux specification.
- Predicted performance calculated from LED manufacturer data and engineering estimates based on test methodologies of IESNA LM-80, LM-79 and TM-21.
- L70 Hours is the predicted time when LED performance depreciates to 70% of initial lumen output.



SC1000
Shorting Cap

- EYE Lighting reserves the right to change materials or modify the design of its product without notification.
- Consult factory for lead time and availability.
- U.S. Patents: D632,000; D631,999; D631,998; D629,963; D629,961; D629,960; D629,558

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