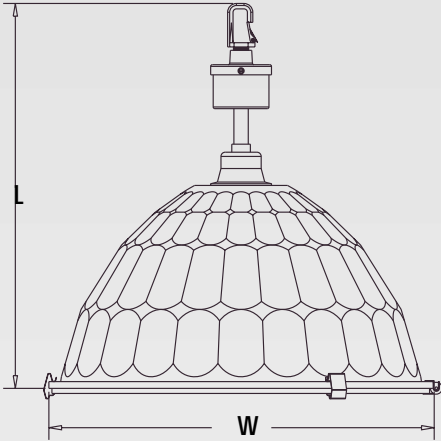


# C Series – Crane-Liter™ Electronic Lighting System



| Dimensions | Fixture Length (L) | Fixture Width (W) | Max. Approx. Ship Wt |
|------------|--------------------|-------------------|----------------------|
| CBM Series | 22.26"             | 14"               | 15 LBS.              |
| CCS Series | 22.76"             | 17"               | 15 LBS.              |
| CCL Series | 22.76"             | 22"               | 15 LBS.              |



The Spartan fully electronic Crane-Liter™ has been developed to supersede traditional crane fixtures using magnetic ballasts and inverters. The Crane-Liter™ series is ideal for AC and DC cranes and operates on any voltage between 208V and 277V AC or DC.

### Reflector

The 14" spun aluminum reflector produces a smooth, even beam pattern with an 80% efficiency rating and can be totally enclosed. The 17" and 22" high efficiency rated faceted reflectors are glass lined and help to reduce dust build up.

### Electronic Ballast

#### Special Features:

- Rugged two piece stamped aluminum housing
- Short circuit protected
- Auto-Voltage input (208-277V) (50-60Hz AC, DC)
- True-sinusoidal, high-frequency lamp drive
- $\pm 3\%$  lamp power regulations over line and lamp variations
- Auto compatible with AC or DC
- Flicker free
- Operates in ambient from  $-10^{\circ}$  to  $55^{\circ}$  C
- Superior color and lumen maintenance
- Operates all ANSI M59 standard lamps
- Stays lit over wide line voltage variations
- Optional dimming available
- Potted ballast
- Ballast transient assembly included
- Maintains  $\pm 3\%$  lamp voltage when line voltage fluctuates between 208 - 300V
- Optional system MOV's for insulating main circuit against high voltage spikes

### Lamps

Either a 400W clear or coated metal halide lamp is standard with the Spartan Crane-Liter™.

### Shock Mount

By incorporating the shock mount reflector made from cast aluminum and heavy duty rubber dampers, the shade and lamp are protected against extreme shock. The faceted heavy duty aluminum shade is glass lined on the inside to reduce dust build up and to maintain its high reflectance after exposure to the environment. Available in either 17" or 22" diameter, with optional silicone sealed glass lenses with stainless steel clamps for easy lamp maintenance, and/or wire guards.

### Warranty

The Crane-Liter™ sold by C.E.W. Lighting, Inc., unless otherwise specified, will be warranted to be free of defects in materials and workmanship under normal use and service for a period of one (1) year from date of shipment. If found to be defective by us, we will replace the non-performing parts or goods.

$-10^{\circ}$  to  $55^{\circ}$ C Ambient Rated

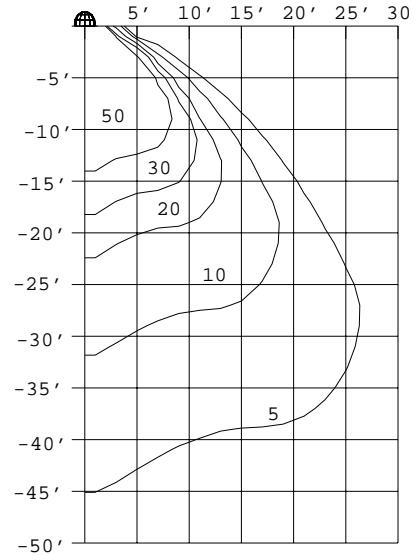


LISTED FOR DAMP LOCATIONS  
CONSULT FACTORY FOR CUL AVAILABILITY

I.E.S. photometrics available by e-mail or on disk

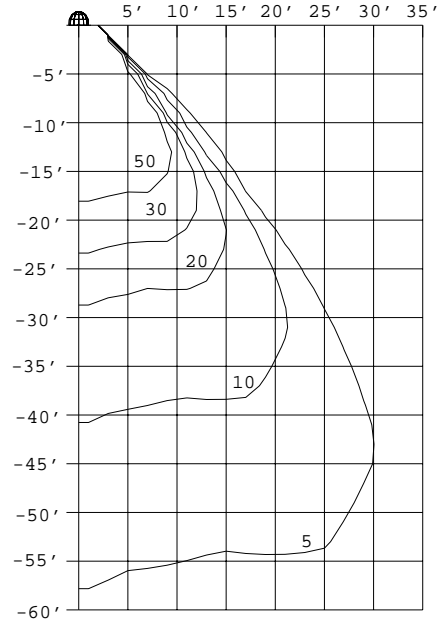
## 14" Reflector Spun Aluminum

Cat #: CBM0440  
Lamp: 400W Clear MH  
Lumens: 38,000  
Certified Test Report: ITL44732  
IES File: EBM740M.IES  
Spacing Criteria: 1.6



## 17" Faceted

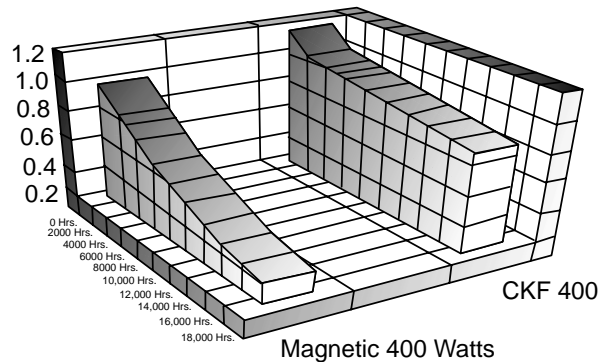
Cat #: CCS0440  
Lamp: 400W Clear MH  
Lumens: 38,000  
Certified Test Report: 35-174981-00  
IES File: ECS440M.IES  
Spacing Criteria: 1.5 max.



### Lumen Maintenance

Standard Magnetic Ballast vs Electronic CKF Ballast

The chart shows a comparison between a (Standard Magnetic 400W and Crane-Liter™ 400W Ballast). It reflects the % of initial lumens being used over time between the two systems.





To build catalog numbers refer to inside front cover

**14" – CBM Series Order Information**

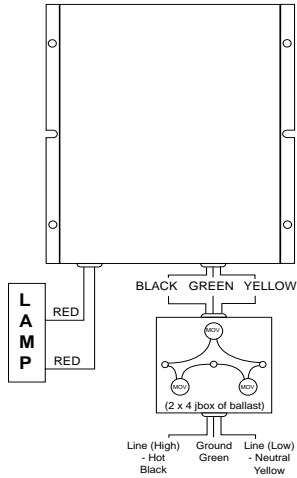
| Reflector Size | Wattage Lamp | Catalog Numbers       |  |
|----------------|--------------|-----------------------|--|
|                |              | Complete Fixture      | Fixture Description  |
| 14"            | 400W MH      | <b>CBM 1740-70101</b> | Complete 14" fixture w/remote ballast housing; C36 Adaptor; Aluminum Reflector; HK-Crd-Plg; Super MH 400W; Pendant Shock Mount |
| 17"            | 400W MH      | <b>CCS 1740-70101</b> | Complete 17" fixture w/remote ballast housing; C36 Adaptor; Faceted Reflector; HK-Crd-Plg; Super MH 400W; Pendant Shock Mount  |
| 22"            | 400W MH      | <b>CCL 1740-70101</b> | Complete 22" fixture w/remote ballast housing; C36 Adaptor; Faceted Reflector; HK-Crd-Plg; Super MH 400W; Pendant Shock Mount  |

**C Series – Crane-Liter™  
Electronic Lighting System**

Wattage Range:  
400W

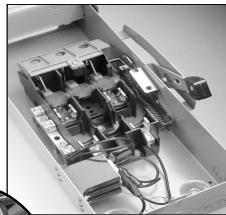
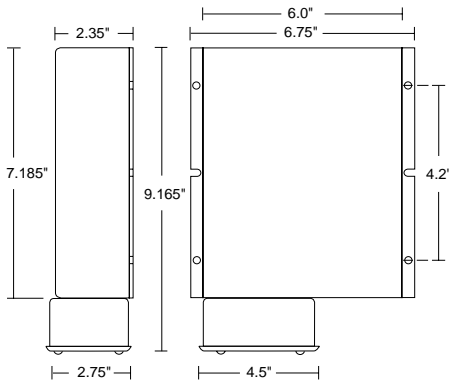


Lamp Included



**MOV in ballast connection box**

The electronic ballast is fitted with surge protectors (MOV's) to protect the ballast from surges common on cranes.



Optional RVP017 MOV in main distribution box must be installed to protect electronic ballast against surges.

**Mountings**



Pendant Shock Mount

**Replacement Components**

|  |                    |
|--|--------------------|
| Electronic Ballast (400W) in Aluminum Housing (Standard) | <b>EM400-CMX</b>   |
| Pendant Shock Mount                                      | <b>PSM</b>         |
| Lamp – Super MH, Coated 400W                             | <b>MSX400/C/BU</b> |
| Locking Hook with Spring Clip                            | <b>HKSC</b>        |
| Socket Adaptor   | <b>C-36</b>        |

**Options:**

|                                       |   |
|---------------------------------------|---|
| Set of 3 MOV's System Transient Units | <b>RVP017</b>   |
| 17" Bottom Wrap Guard                 | <b>SDC17WG</b>  |
| 22" Bottom Wrap Guard                 | <b>LBM22G</b>   |
| 17" Glass Cover Lens w/Ring           | <b>SDC17Glass</b>   |
| 22" Glass Cover Lens w/Ring           | <b>SDC22Glass</b>   |
| 17" Cover Lens, Guard & Ring          | <b>SDC17GLA</b>   |
| 22" Cover Lens, Guard & Ring          | <b>SDC22GLA</b>   |
| Reflector Safety Chain (by the ft)    | <b>SC</b>   |
| Cord (by the ft)                      | <b>CBF-16/3 * Maximum 10' Lamp to Ballast Cord Length</b> |