


Lumenmaster 250™ Low Bay HID Prismatic Luminaires

Integrally Ballasted. 150 W, 250 W HPS; 175 W, 200 W, 250 W PSMH, 175 W, 250 W MH 

Suitable for use in damp locations

Applications

- Energy-efficient, low-glare illumination for manufacturing, storage and other indoor areas where low bay luminaires are required. Can be mounted as low as 8 feet/2.4 meters from work plane.
- Suitable for use in damp locations.
- Operates safely in ambients as high as 104 °F/40 °C.
- Applications involving airborne particulates (such as carbon black, pigments, etc.) should be pre-evaluated and approved by Appleton prior to ordering.

Features

- High efficiency (up to 74.6% with 250 W high pressure sodium lamp) combined with long lamp life, ensures the most economical operation.
- Two-to-one vertical-to-horizontal footcandles provides effective, efficient illumination of vertical surfaces.
- Reflector/refractor optical assembly is computer designed for uniform, wide light distribution with low glare.
- Injection-molded prismatic refractor lens is 100% virgin acrylic. Minimum thickness is 3/16"/4.8mm.
- Ruggedly built, attractively styled, low-profile design.
- A wide range of ballasts and voltages are available for both domestic and export applications.
- Integral ballast.
- Capable of starting and operating the lamp in temperatures as low as -20 °F/-28.9 °C for pulse start metal halide lamps, -40 °F/-40 °C for high pressure sodium lamps.
- Mogul base socket with spring loaded center contact and heavy gauge, screw shell with double lamp grips to prevent lamps from loosening due to vibration.
- Installation is quick and easy:
 - (1) mount junction box to 3/4"/19.1 mm conduit
 - (2) slide ballast onto junction box
 - (3) make connections
 - (4) install lamp
 - (5) snap reflector in place

Standard Materials

- Gasket: silicone rubber
- Reflector: aluminum
- Ballast housing: finned, copperfree (4/10 of 1% max) aluminum
- Sockets: porcelain
- Screws: brass

Standard Finishes

- Reflector: natural finish
- Ballast: white powder coat polyester
- Sockets: nickel plated center contact
- Screws: nickel plated brass

Options

- Units are available with a pre-wired sensor circuit for automatically lighting an auxiliary safety lamp in case a power dip or lamp failure extinguishes the HID lamp.

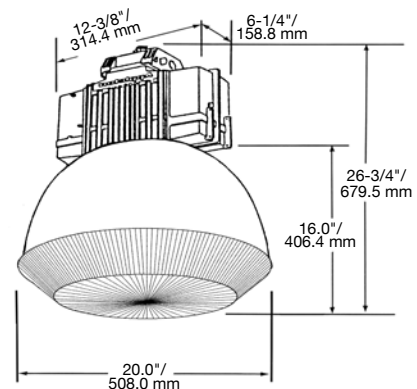
Certifications and Compliances

- UL Listed: E85142
- UL Standard: 1598
- CSA Certified: LR9349

 CSA Certification only.



Dimensions



Related Products

- For power hook, fusing and other suspension accessories see *Fixture Hanger Accessories*.

Lumenmaster 250™ Low Bay HID Prismatic Luminaires

Integrally Ballasted. 150 W, 250 W HPS; 175 W, 200 W, 250 W PSMH, 175 W, 250 W MH ^{CSA}.

Suitable for use in damp locations

Electrical Specifications

High Pressure Sodium — All ballasts are C.W.A. type, except 150 W HPS which is HX–Auto						
Line Volts	150 W			250 W		
	Start	Oper.	Total Watts	Start	Oper.	Total Watts
120	2.00	1.70	188	2.00	2.50	295
208	1.15	.95	188	1.20	1.50	295
240	1.00	.85	188	1.00	1.30	295
277	.85	.72	188	.85	1.10	295
347 ^{CSA}	0.52	0.56	188	0.60	0.93	295
480	.50	.47	189	.40	.65	295

Pulse Start Metal Halide — Super C.W.A. Ballast Amps										
Line Volts	175 W			200 W			250 W			
	Start	Oper.	Total Watts	Start	Oper.	Total Watts	Start	Oper.	Total Watts	
120	.90	1.78	199	2.10	2.00	235	1.90	2.50	288	
208	.50	1.08	199	1.15	1.25	235	1.10	1.45	288	
240	.35	.89	199	1.10	1.00	235	.96	1.25	288	
277	.30	.76	199	.75	.85	235	.85	1.10	288	
347 ^{CSA}	0.25	0.65	199	.25	.70	232	0.62	0.90	288	
480	.25	.50	213	.35	.50	237	.46	.60	285	

Metal Halide ^{CSA} — C.W.A. Ballast Amps										
Line Volts	175 W			250 W						
	Start	Oper.	Total Watts	Start	Oper.	Total Watts				
120	1.3	1.8	213	1.2	2.6	295				
208	.75	1.1	213	.65	1.5	295				
240	.65	.90	213	.60	1.3	295				
277	.55	.78	213	.50	1.12	295				
347	0.50	0.65	213	0.80	0.90	295				

Luminaire Performance

Distribution ①	150 Watt		175 Watt		200 Watt		250 Watt	
	Effic.	S./M.H. ②	Effic.	S./M.H. ②	Effic.	S./M.H. ②	Effic.	S./M.H. ②
High Pressure Sodium								
	70.0%	3.2:1	—	—	—	—	74.6%	3.1:1
Pulse Start Metal Halide								
	—	—	65.9%	2.7:1	53.1%	3.1:1	67.2%	3.0:1
Metal Halide								
	—	—	62.3%	2.6:1	—	—	64.7%	3.0:1

① Reflector adjusts for medium to wide distribution without tools.


② S./M.H.: Spacing to Mounting Height.

^{CSA} CSA Certified only.







































LIGHTING: GENERAL LIGHTING — AREA — LOW BAY

Lighting


Lumenmaster 250™ Low Bay HID Prismatic Luminaires


Integrally Ballasted. 150 W, 250 W HPS; 175 W, 200 W, 250 W PSMH, 175 W, 250 W MH 


Suitable for use in damp locations


Pendant Mounting		Catalog Number	
Lamp Type	Voltage	Complete with Reflector/Refractor Assembly and Ballast  	Ballast Housing Assembly
For High Pressure Sodium Lamps			
150 W HPS	120/208/240/277 V 	G-LM41AL-MT	G-LM411L-MT
150 W HPS	120/277/347 V 	G-LM41AL-TT  	G-LM411L-TT  
150 W HPS	480 V 	G-LM41AL-48	G-LM411L-48
250 W HPS	120/208/240/277 V	G-LM61AL-MT	G-LM611L-MT
250 W HPS	120/277/347 V	G-LM61AL-TT  	G-LM611L-TT  
250 W HPS	480 V	G-LM61AL-48	G-LM611L-48
For Pulse Start Metal Halide Lamps			
175 W PSMH	120/208/240/277 V	G-LM51AP-MT	G-LM511P-MT
175 W PSMH	120/277/347 V	G-LM51AP-TT  	G-LM511P-TT  
175 W PSMH	480 V	G-LM51AP-48	G-LM511P-48
200 W PSMH	120/208/240/277 V	G-LM201AP-MT	G-LM2011P-MT
200 W PSMH	120/277/347 V	G-LM201AP-TT  	G-LM2011P-TT  
200 W PSMH	480 V	G-LM201AP-48	G-LM2011P-48
250 W PSMH	120/208/240/277 V	G-LM61AP-MT	G-LM611P-MT
250 W PSMH	120/277/347 V	G-LM61AP-TT  	G-LM611P-TT  
250 W PSMH	480 V	G-LM61AP-48	G-LM611P-48
For Metal Halide Lamps 			
175 W MH	120/208/240/277 V	G-LM51AH-MT 	G-LM511H-MT 
175 W MH	120/277/347 V	G-LM51AH-TT  	G-LM511H-TT  
250 W MH	120/208/240/277 V	G-LM61AH-MT 	G-LM611H-MT 
250 W MH	120/277/347 V	G-LM61AH-TT  	G-LM611H-TT  

 ^① For 150 W HPS fixtures furnished with Instant Hot Restart, add suffix **-R** to catalog number.


 ^② Add Suffix **-E** to catalog number if provision for quartz emergency lamp is desired (lamp not included). Furnished with socket installed and pre-wired.

 ^③ To order fixture complete with lamp, add suffix **-L** to catalog number.

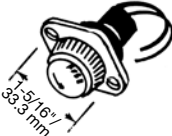
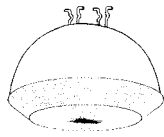

 ^④ Supplied complete with CWA Ballast. For 208, 240, 480 or 600 V CWI applications, change the **-TT** suffix to **-C2**, **-C3**, **-C6** or **-C7** as required. 

 ^{UL} CSA Certification only.

Lumenmaster 250™ Low Bay HID Prismatic Luminaires

Integrally Ballasted. 150 W, 250 W HPS; 175 W, 200 W, 250 W PSMH, 175 W, 250 W MH .

Accessories and Replacement Parts

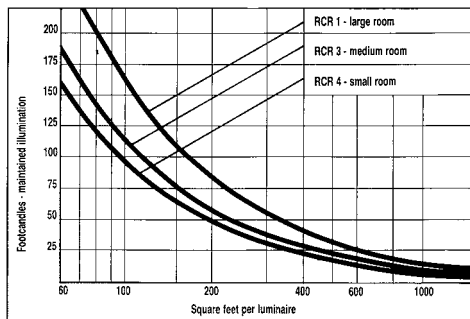
Type	Description	Catalog Number
Fuseholder with 9" wire leads		
	Zinc plated.	G-F10
Safety Cable (not shown)		G-HB7000-SC
Optic Assembly		
	Optic Assembly only.	G-LM20
Wiring Kit (not shown)		PWK 
	Supplied with 3 feet of 16/3 SOOW cable and FHMM-75SS cast safety hook	

Lumenmaster 250™ Low Bay HID Prismatic Luminaires

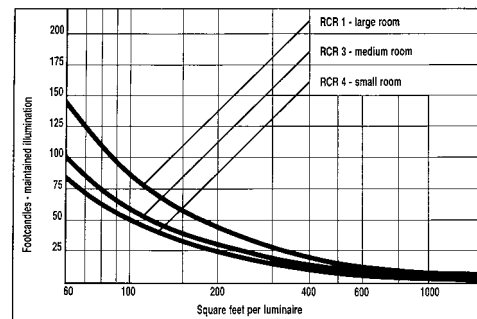
Integrally Ballasted. Quick-Estimate Illumination Chart *

Integrally Ballasted. 150 W, 250 W HPS; 175 W, 200 W, 250 W PSMH.

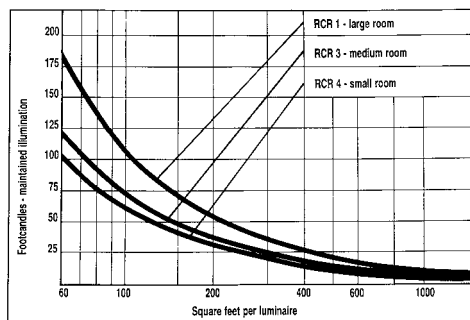
250 Watt High Pressure Sodium



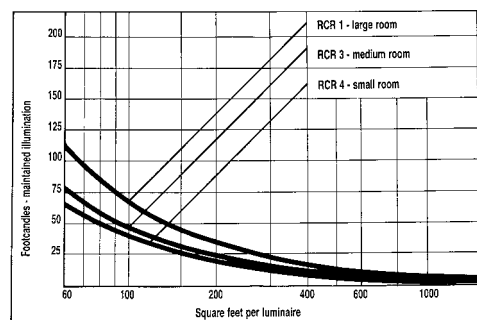
150 Watt High Pressure Sodium



250 Watt Pulse Start Metal Halide



175 Watt Pulse Start Metal Halide



How to use Quick-Estimate Illumination Chart

1. Refer to "Quick-Estimate Illumination Chart" for the lamp type and wattage to be used.
2. Determine "room size" of area to be lighted. "Small Room" is 2500 Sq. Ft./232.3 Sq. M. or less. "Medium Room" is 2500 Sq. Ft./232.3 Sq. M. thru 10,000 Sq. Ft./929.0 Sq. M. "Large Room" is 10,000 Sq. Ft./929.0 Sq.M. or more.
3. Find level of light (footcandles) required in vertical column of figures at left of chart. Then follow horizontal line (real or interpolated) to right until it intersects with "Arc" of selected "room size." Come directly down from point of intersection to horizontal line of number "Square Feet Per Luminaire." The resulting number (real or interpolated) is the "number of square feet" one Appleton will illuminate to the selected average maintained footcandle level when mounted in conjunction with other units in the high bay installation.
4. Divide number of total square feet in project by "number of square feet per luminaire" to get number of units required.
5. Take square root of resulting "number of square feet per luminaire" number to determine spacing between units.

* Photometric charts available on request. Consult your local sales representative for pulse start metal halide.

CSA Certification only.