

EVLP Low Profile Hazard•Gard® (H.I.D.) Luminaires

Medium and Mogul Base

Cl. I, Div. 1, Groups B (GB suffix), C, D
 Cl. I, Zone 1, Groups IIB + H₂ (with suffix – GB), IIB, IIA
 Cl. II, Div. 1, Groups E, F, G; Class III

Marine & Wet Locations
 3, 3R, 4, 4X; IP66

4L

Applications:

Cooper Crouse-Hinds Low Profile Hazard•Gard® luminaires are used in:

- Areas where flammable or explosive vapors or gases are present
- Hazardous areas, both indoors and outdoors, where long life and low maintenance costs are desired
- Petroleum refineries, chemical, petrochemical and pharmaceutical plants, oil terminals, gas plants and other heavy process industry facilities
- Waste treatment facilities
- Drilling platforms and other coastal and offshore hazardous areas

Features and Benefits:

- Small, compact size is perfect where low mounting restrictions are a concern.
- Two start Acme threaded construction allows for easier assembly, installation and maintenance.
- Lightweight copper-free aluminum housing with powdered epoxy finish for superior corrosion resistance.
- All exterior hardware is corrosion-resistant stainless steel.
- Four mounting arrangements: pendant, ceiling, wall bracket and stanchion suit any lighting layout.
- Wide range of light sources and wattages to meet specific lighting needs.
- Marine and NEMA 4X construction suitable for outdoor, hose down, marine and corrosive environments.
- Integral ballast for lowest installed cost.
- High power factor (90%+) ballasts allows more fixtures per circuit.
- Uses same mounting modules as the standard Hazard•Gard® for easy retrofitting when the Lo-Pro™ is the preferred choice.
- Internally fluted glass globe reduces glare and distributes light evenly – ideal for adverse environments typical of industrial facilities.
- Krydon® construction dome and angle reflectors – won't rust, corrode, dent, chip or peel
- Now available in components – luminaire body, mounting module, guard, reflectors – allowing for easy stocking for Quick Ship requirements.



Certifications and Compliances:

- NEC and CEC:
 - Class I, Division 1, Groups B (with suffix GB), C, D – All Wattages
 - Class I, Zone 1, Groups IIB + H₂ (with suffix GB), IIB, IIA – All Wattages
 - Class II and Class III
- UL Standards:
 - 844, Hazardous (Classified) Locations
 - 1598 Luminaires
 - 1598A Marine Locations
- CSA Standards
 - C22.2 No. 137

Options:

Description	Suffix
• Group B suitability	GB
• Ballast-Gard™ (HPS only)	BG
• Instant restrike (Mogul Base only)	IR
70–150W LX HPS Cannot use with BG Option	
• Fused (not suitable for marine applications).....	S658*
• Quartz auxiliary lighting (Mogul Base only)	QTZ
Cannot use with IR option Uses 100W single ended double contract lamp Quartz lamp not included	
• Factory assembled with lamps	FA

*When ordering fuses for luminaires, option S658, you must specify the operating voltage. S658 cannot be ordered with /MT in the catalog number.

Accessories:

Description	Cat. #
Dome reflector	RD739
Angle reflector	RA739

Standard Materials:

- Mounting modules, cover, ballast housing, globe holder – copper-free aluminum
- Globe – heat and impact resistant glass
- Exterior hardware – stainless steel
- Reflectors (dome & angle) – Krydon® fiberglass-reinforced polyester

Standard Finishes:

- Copper-free aluminum – *Corro-free™* powdered epoxy
- Krydon – white
- Stainless steel guard

Ratings (Electrical/Size):

Sources/Wattage:

- Medium Base 70–150W HPS, 70–175W MH
- Mogul Base 70–150W HPS, 70–250W MH

Voltages:

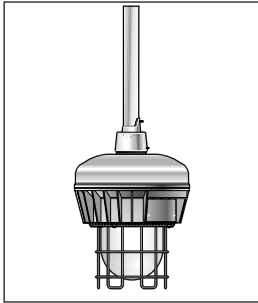
- Medium & Mogul H.I.D.
 - 120V 60Hz
 - Multi-tap (120, 208, 240, 277V 60Hz)
 - Tri-tap (120, 277, 347V 60Hz)
 - 480V 60Hz
 - Other voltages – consult Cooper Crouse-Hinds

Conduit Entries:

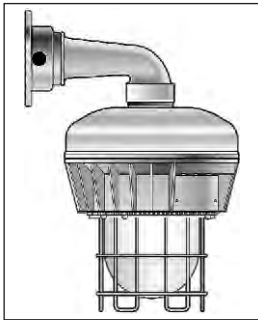
- 3/4", 1" NPT – pendant, wall bracket, ceiling
- 1 1/4" NPT – stanchion



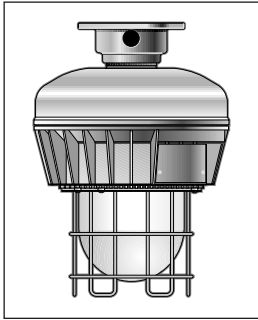
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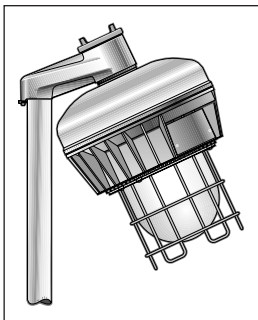
Pendant Mount



†Wall Bracket Mount



†Ceiling Mount



Stanchion Mount

	Pendant		Wall Bracket		Ceiling		Stanchion		Luminaire Body Less Mounting Module & Guard
	Hub Watt Size (In.)	With Guard Cat. #	With Guard Cat. #	With Guard Cat. #	With Guard Cat. #	With Guard Cat. #	With Guard Cat. #	Cat. #	Cat. #
High Pressure Sodium									
70W	3/4	EVLPA142071	EVLPBX142071	EVLPCX142071					EVL14070
	1	EVLPA143071	EVLPBX143071	EVLPCX143071					
	1 1/4						EVLPJ144071		
100W	3/4	EVLPA142101	EVLPBX142101	EVLPCX142101					EVL14100
	1	EVLPA143101	EVLPBX143101	EVLPCX143101					
	1 1/4						EVLPJ144101		
150W	3/4	EVLPA142151	EVLPBX142151	EVLPCX142150					EVL14151
	1	EVLPA143151	EVLPBX143151	EVLPCX143151					
	1 1/4						EVLPJ144151		
Pulse Start Metal Halide									
150W	3/4	EVLPA192151 S828	EVLPBX192151 S828	EVLPCX192151 S828					EVL19150 S828
	1	EVLPA193151 S828	EVLPBX193151 S828	EVLPCX193151 S828					
	1 1/4						EVLPJ194151 S828		
175W	3/4	EVLPA192171 S828	EVLPBX192171 S828	EVLPCX192171 S828					EVL19175 S828
	1	EVLPA193171 S828	EVLPBX193171 S828	EVLPCX193171 S828					
	1 1/4						EVLPJ194171 S828		
Metal Halide									
70W	3/4	EVLPA192071	EVLPBX192071	EVLPCX192071					EVL19070
	1	EVLPA193071	EVLPBX193071	EVLPCX193071					
	1 1/4						EVLPJ194071		
100W	3/4	EVLPA192101	EVLPBX192101	EVLPCX192101					EVL19100
	1	EVLPA193101	EVLPBX193101	EVLPCX193101					
	1 1/4						EVLPJ194101		
175W	3/4	EVLPA192171	EVLPBX192171	EVLPCX192171					EVL19175
	1	EVLPA193171	EVLPBX193171	EVLPCX193171					
	1 1/4						EVLPJ194171		

Complete Catalog Number as follows:

Standard Voltage Ballasts – 60Hz

Voltage Suffix	Multi Tap /MT	NEC/UL		CEC/CSA (cUL)	
		120V /120	480V /480	Tri Tap /TT	120V /120

Optional Voltage Ballasts – 50 or 60Hz

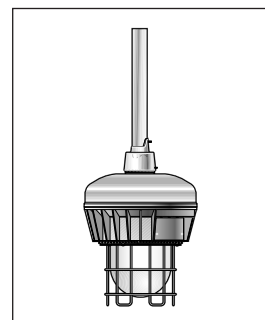
Voltage Suffix	*CEC/CSA (cUL)– CWI Isolated Ballasts				EXPORT		
	208V CWI /208CWI	240V CWI /240CWI	600V CWI /600CWI	220V 60Hz /220	220V 50Hz /220 50	230V 50Hz /230 50	240V 50Hz /240 50

2. 150W HPS Luminaires only
- 55V lamps – add suffix "LX"
 - 100V lamps – add suffix "CE"

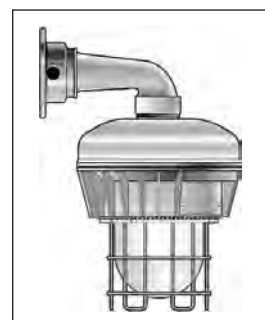
†Ceiling and bracket mounts have 4 hubs: 3 are plugged.

*CWI Isolated Ballasts are only available for high pressure sodium and 175W metal halide (non pulse start) luminaires.

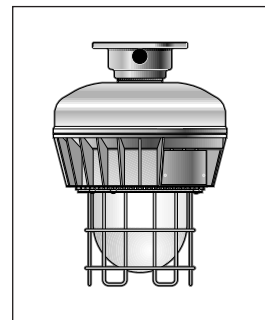
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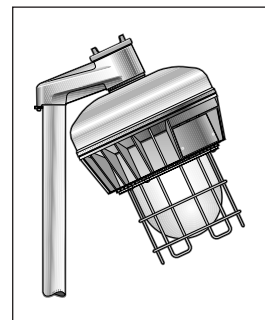
Pendant Mount



†Wall Bracket Mount



†Ceiling Mount



Stanchion Mount

		Pendant	Wall Bracket	Ceiling	Stanchion	Luminaire Body Less Mounting Module & Guard
Watt	Hub Size (In.)	With Guard Cat. #	With Guard Cat. #	With Guard Cat. #	With Guard Cat. #	Cat. #
High Pressure Sodium						
70W	3/4	EVLPA042071	EVLPBX042071	EVLPCX042071		EVLPA04070
	1	EVLPA043071	EVLPBX043071	EVLPCX043071		
	1 1/4				EVLPA044071	
100W	3/4	EVLPA042101	EVLPBX042101	EVLPCX042101		EVLPA04100
	1	EVLPA043101	EVLPBX043101	EVLPCX043101		
	1 1/4				EVLPA044101	
150W	3/4	EVLPA042151	EVLPBX042151	EVLPCX042151		EVLPA04150
	1	EVLPA043151	EVLPBX043151	EVLPCX043151		
	1 1/4				EVLPA044151	
Pulse Start Metal Halide						
150W	3/4	EVLPA092151S828	EVLPBX092151S828	EVLPCX092151S828		EVLPA09150S828
	1	EVLPA093151S828	EVLPBX093151S828	EVLPCX093151S828		
	1 1/4				EVLPA094151S828	
175W	3/4	EVLPA092171S828	EVLPBX092171S828	EVLPCX092171S828		EVLPA09170S828
	1	EVLPA093171S828	EVLPBX093171S828	EVLPCX093171S828		
	1 1/4				EVLPA094171S828	
200W	3/4	EVLPA092201S828	EVLPBX092201S828	EVLPCX092201S828		EVLPA09201S828
	1	EVLPA093201S828	EVLPBX093201S828	EVLPCX093201S828		
	1 1/4				EVLPA094201S828	
250W	3/4	EVLPA092251S828	EVLPBX092251S828	EVLPCX092251S828		EVLPA09250S828
	1	EVLPA093251S828	EVLPBX093251S828	EVLPCX093251S828		
	1 1/4				EVLPA094251S828	
Metal Halide						
70W	3/4	EVLPA092071	EVLPBX092071	EVLPCX092071		EVLPA09070
	1	EVLPA093071	EVLPBX093071	EVLPCX093071		
	1 1/4				EVLPA094071	
100W	3/4	EVLPA092101	EVLPBX092101	EVLPCX092101		EVLPA09100
	1	EVLPA093101	EVLPBX093101	EVLPCX093101		
	1 1/4				EVLPA094101	
175W	3/4	EVLPA092171	EVLPBX092171	EVLPCX092171		EVLPA09170
	1	EVLPA093171	EVLPBX093171	EVLPCX093171		
	1 1/4				EVLPA094171	
250W	3/4	EVLPA092251	EVLPBX092251	EVLPCX092251		EVLPA09250
	1	EVLPA093251	EVLPBX093251	EVLPCX093251		
	1 1/4				EVLPA094251	

Complete Catalog Number as follows:

Standard Voltage Ballasts – 60Hz

1.		NEC/UL		CEC/CSA (cUL)	
Voltage Suffix	Multi Tap /MT	120V /120	480V /480	Tri Tap /TT	120V /120

Optional Voltage Ballasts – 50 or 60Hz

*CEC/CSA (cUL)– CWI Isolated Ballasts				EXPORT			
Voltage Suffix	208V CWI /208CWI	240V CWI /240CWI	600V CWI /600CWI	220V 60Hz /220	220V 50Hz /220 50	230V 50Hz /230 50	240V 50Hz /240 50

2. 150W HPS Luminaires only
 • 55V lamps – add suffix "LX"
 • 100V lamps – add suffix "CE"
 Example: EVLPA043151/MT-LX

†Ceiling and wall bracket mounts have 4 hubs: 3 are plugged.

*CWI Isolated Ballasts are only available for high pressure sodium and 175W–250W metal halide (non pulse start) luminaires.

Ordering by Components

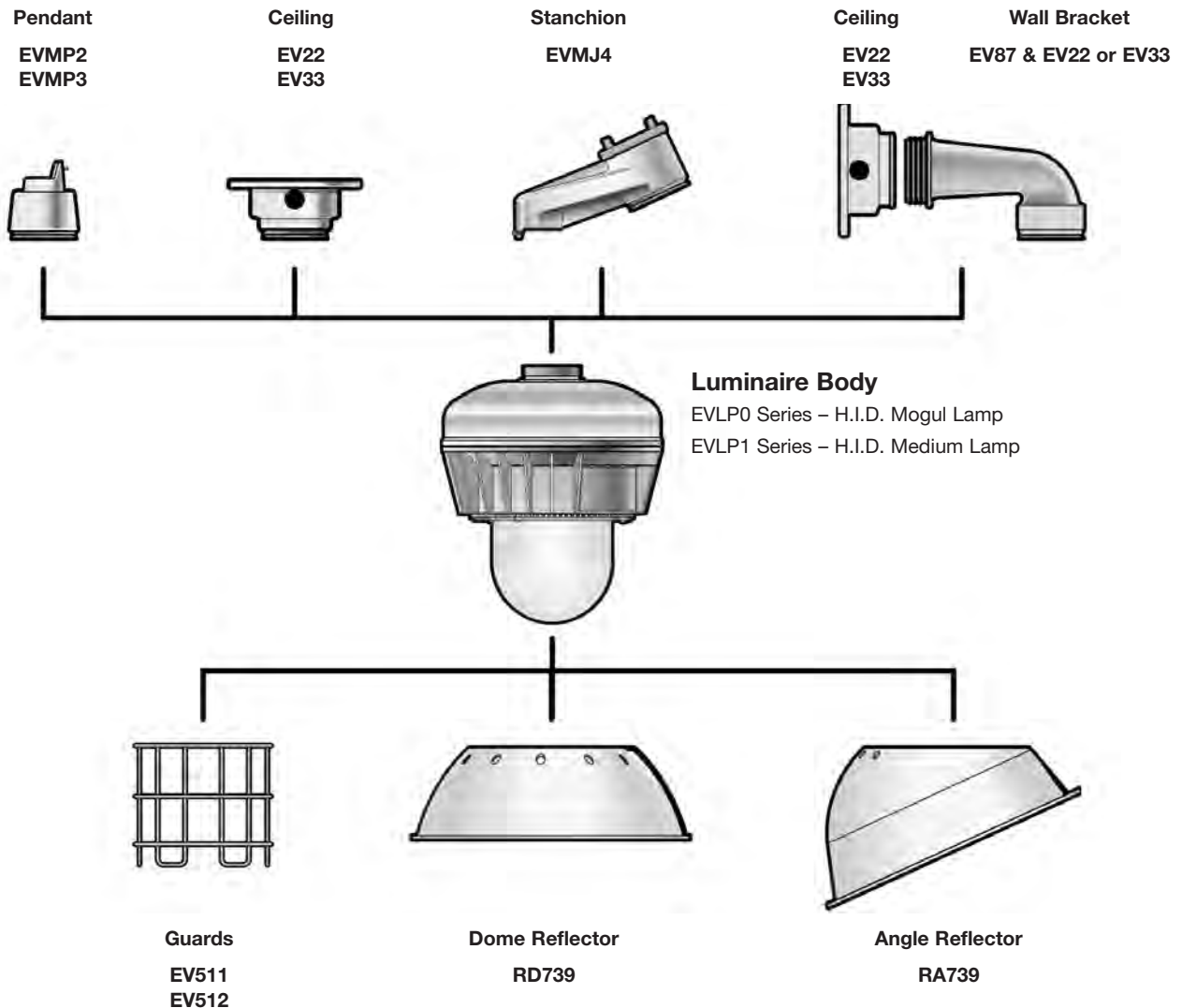
EVLP Luminaires are available in components.

A complete luminaire consists of:

- Mounting Module
- Luminaire Body
- Guard, Dome Reflector or Angle Reflector

Mounting Modules:

Type	Conduit	Cat. #
Pendant	3/4"	EVMP2
	1"	EVMP3
Ceiling & Wall Box	3/4"	EV22
	1"	EV33
Wall Bracket Arm	Use EV22 or EV33 box with EV87	EV87
Stanchion	1 1/4"	EVMJ4
Guards		
Medium		EV511
Mogul		EV512
Reflectors		
Dome		RD739
Angle		RA739



Medium Base Lamp Luminaires:

Maximum Ambient	Watts	Class I, Group B (w/GB suffix) Groups C, D			Class II, Groups E, F, G Class III Simultaneous Presence		Supply Wire °C
		40°C	55°C	65°C	40°C		
High Pressure Sodium	70W	T5	T4A	T4A	T4A		90°C
	100W	T4A	T4A	T4	T4		90°C
	150W	T4	T3C	—	—		90°C
Metal Halide (including pulse start)	70W	T5	T4A	T4A	T4		85°C
	100W	T3C	T3C	—	—		90°C
	150W	T3C	T3B	—	—		90°C
	175W	T3C	T3B	—	—		90°C

Mogul Base Lamp Luminaires:

Maximum Ambient	Watts	Class I, Group B (w/GB suffix) Groups C, D			Class II, Groups E, F, G Class III Simultaneous Presence		Supply Wire °C
		40°C	55°C	65°C	40°C		
High Pressure Sodium	70W	T6	T5	T5	T5		90°C
	100W	T5	T4A	—	T4A		90°C
	150W	T4A	T4	—	T4		90°C
Metal Halide (including pulse start)	70W	T6	T5	T5	T5		85°C
	100W	T5	T4A	T4A	T4A		90°C
	150W	T4	T3C	—	T3C		90°C
	175W	T4	T3C	—	T3C		90°C
	200W	T3C	—	—	—		90°C
	250W	T3C	—	—	—		90°C

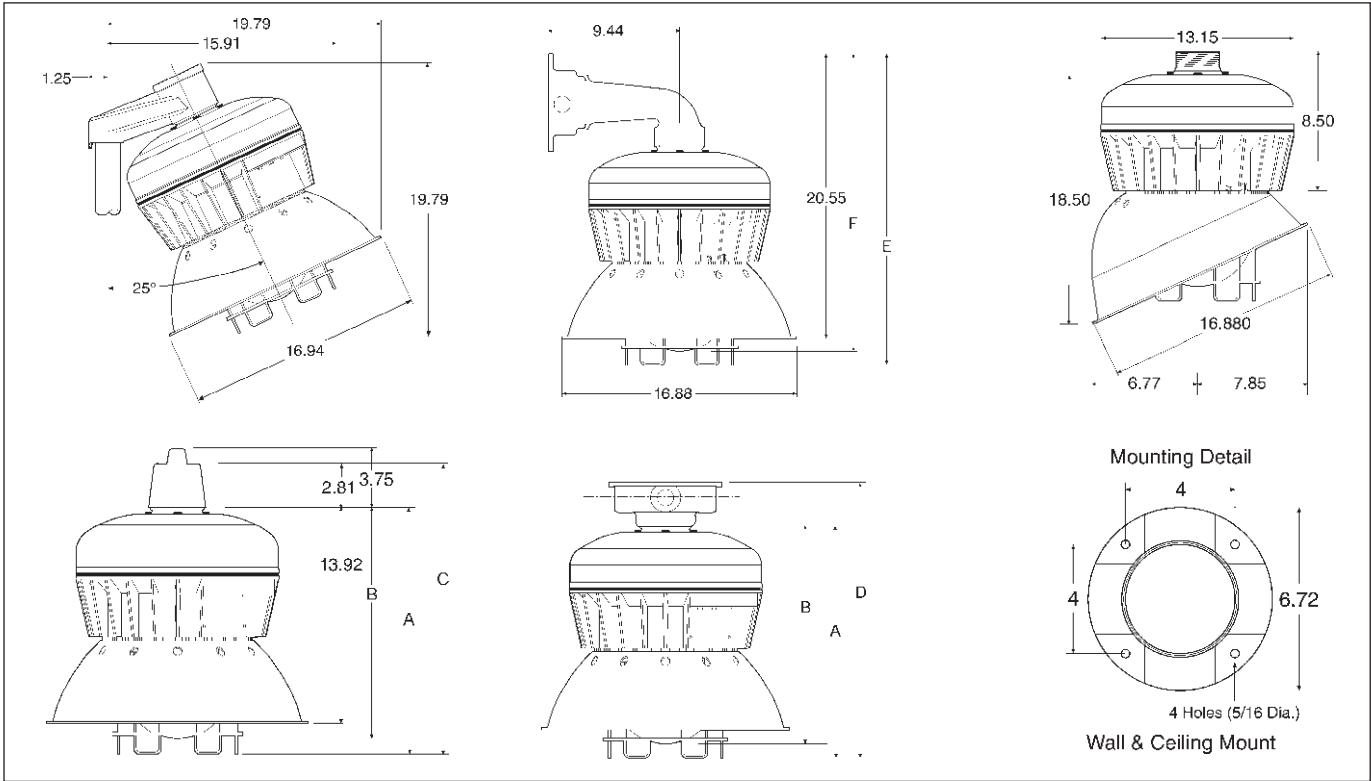
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Dimensions and Weights

Dimensions

In Inches:

	A	B	C	D	E	F
Medium Base	13.92	12.73	16.50	16.71	20.59	19.36
Mogul Base	15.69	14.69	18.25	18.46	22.34	21.30



**Weights
(lbs.):**

Source	Watts	Luminaire w/guard	
		Medium	Mogul
High Pressure Sodium	70	34	36.5
	100	36	38.5
	150	36.5	39
Metal Halide	70	33.5	36
	100	34.5	37
	150	36	38.5
	175	36	38.5
	200	—	40.5
	250	—	40.5

Add Mounting Modules:

	Medium	Mogul
Pendant	1	1
Ceiling	2	2
Bracket	4.5	4.5
Stanchion	2.5	2.5

Add For Reflectors:

	Medium	Mogul
RA739	1	1
RD739	1	1

Deduct for Wire Guard

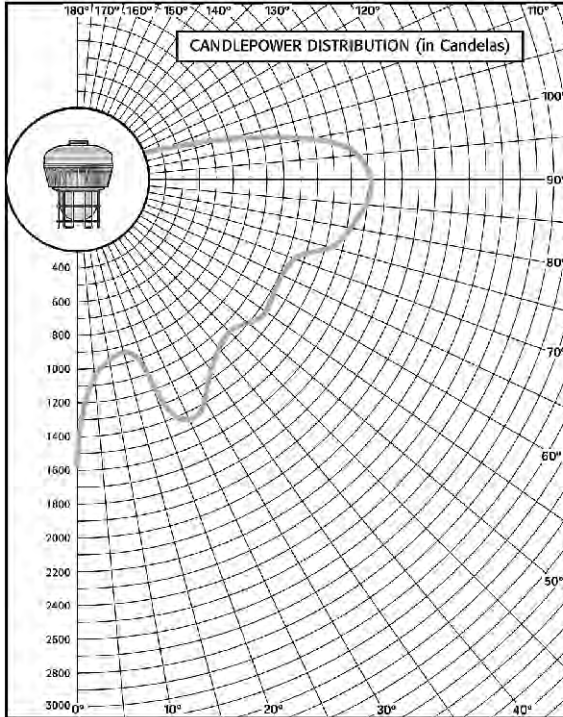
	Medium	Mogul
	0.5	0.5

Medium Base

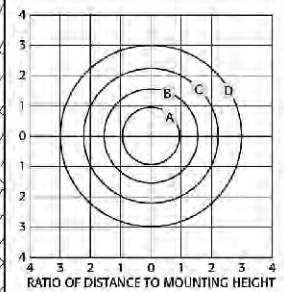
Medium Base

Luminaire with Globe and Guard

EVLP143151 Lamp: 150W/B17 High Pressure Sodium (HPS)



CANDELAS	
Mid-Zone Angle	Candelas
0	1592
5	1005
15	952
25	1410
35	1194
45	1069
55	1252
65	1240
75	1442
85	1541
95	1571
105	789
115	33
125	6



*Note: Photometric data was developed using a 150W high pressure sodium lamp (16,000 lumens). For other clear lamps, use the following conversion factors (multipliers) with both candlepower distribution and isofootcandle charts. Multipliers do not apply to coefficients of utilization.

LAMP WATTS	CONVERSION FACTOR
70 W (HPS)	0.40
100 W (HPS)	0.59
70 W (MH)	0.35
100 W (MH)	0.49
175 W (MH)	0.88

COEFFICIENTS OF UTILIZATION Effective Floor Cavity Reflectance 20%

Eff. Cell.	Wall	ROOM CAVITY RATIO									
		1	2	3	4	5	6	7	8	9	10
50°	593	493	420	365	321	286	256	232	211	194	
80°	30°	546	430	351	294	251	218	191	170	152	
10°	505	377	296	240	200	170	146	127	112	100	
50°	561	465	397	344	305	270	243	220	201	184	
30°	519	408	333	280	239	208	185	162	146	131	
10°	481	360	282	229	191	162	140	122	108	996	
50°	501	414	352	306	270	241	217	198	181	166	
30°	467	367	300	252	216	188	165	147	132	120	
10°	435	326	256	208	174	148	128	112	999	088	
50°	446	366	311	270	239	214	194	176	162	149	
30°	418	328	268	225	193	168	149	133	120	109	
10°	393	294	231	186	157	134	116	101	890	080	
50°	395	322	273	237	210	189	171	157	144	134	
30°	373	291	237	199	172	150	133	119	108	098	
10°	353	264	207	168	141	120	104	091	081	072	
0°	0°	325	238	183	146	120	101	087	075	066	

ISOFOOTCANDLE CHART:

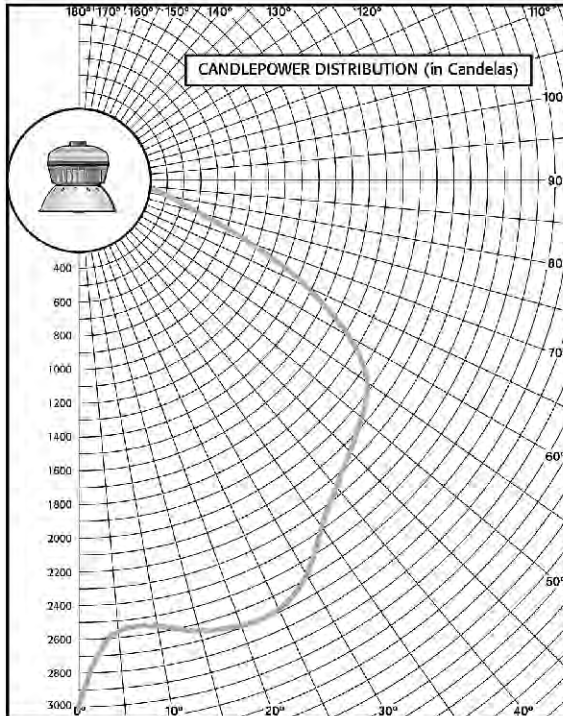
Mtg. Hgt.	Footcandle Values for Isofootcandle Lines			
	A	B	C	D
10'	5.00	2.00	1.00	0.50
12'	3.47	1.39	0.69	0.35
16'	1.93	0.78	0.39	0.20
20'	1.25	0.50	0.25	0.13

isofootcandle chart shows illuminance in footcandles at ground level.

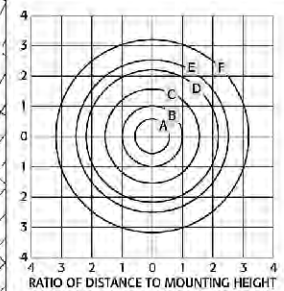
Medium Base

Luminaire with Globe and Dome Reflector (Less Guard)

EVLP143150RD Lamp: 150W/B17 High Pressure Sodium (HPS)



CANDELAS	
Mid-Zone Angle	Candelas
0	3019
5	2525
15	2645
25	2718
35	2349
45	2023
55	1967
65	1350
75	628
85	200
95	53
105	1



*Note: Photometric data was developed using a 150W high pressure sodium lamp (16,000 lumens). For other clear lamps, use the following conversion factors (multipliers) with both candlepower distribution and isofootcandle charts. Multipliers do not apply to coefficients of utilization.

LAMP WATTS	CONVERSION FACTOR
70 W (HPS)	0.40
100 W (HPS)	0.59
70 W (MH)	0.35
100 W (MH)	0.49
175 W (MH)	0.88

COEFFICIENTS OF UTILIZATION Effective Floor Cavity Reflectance 20%

Eff. Cell.	Wall	ROOM CAVITY RATIO									
		1	2	3	4	5	6	7	8	9	10
50°	603	521	454	399	354	317	286	260	238	219	
80°	30°	576	479	403	345	299	263	233	208	188	
10°	552	443	363	304	259	225	196	173	155	139	
50°	589	509	444	391	347	311	281	256	234	216	
30°	565	470	397	340	295	260	230	207	187	170	
10°	543	437	360	301	257	222	195	172	154	139	
50°	563	487	425	375	334	300	271	247	227	209	
30°	543	455	385	331	288	254	226	203	183	167	
10°	525	426	353	297	253	220	193	171	153	138	
50°	539	467	408	361	322	289	262	240	220	203	
30°	523	440	374	323	282	248	221	199	180	165	
10°	508	416	346	292	250	217	191	169	152	137	
50°	517	449	393	347	310	279	254	232	214	198	
30°	504	426	364	314	275	243	217	196	177	162	
10°	492	406	339	287	247	215	189	168	151	136	
0°	0°	479	393	326	274	234	202	177	156	140	

ISOFOOTCANDLE CHART:

Mtg. Hgt.	Footcandle Values for Isofootcandle Lines					
	A	B	C	D	E	F
10'	15.0	7.00	3.00	1.00	0.50	0.20
12'	10.4	4.90	2.08	0.69	0.35	0.14
16'	5.90	2.70	1.17	0.39	0.20	0.06
20'	3.80	1.80	0.75	0.25	0.13	0.05

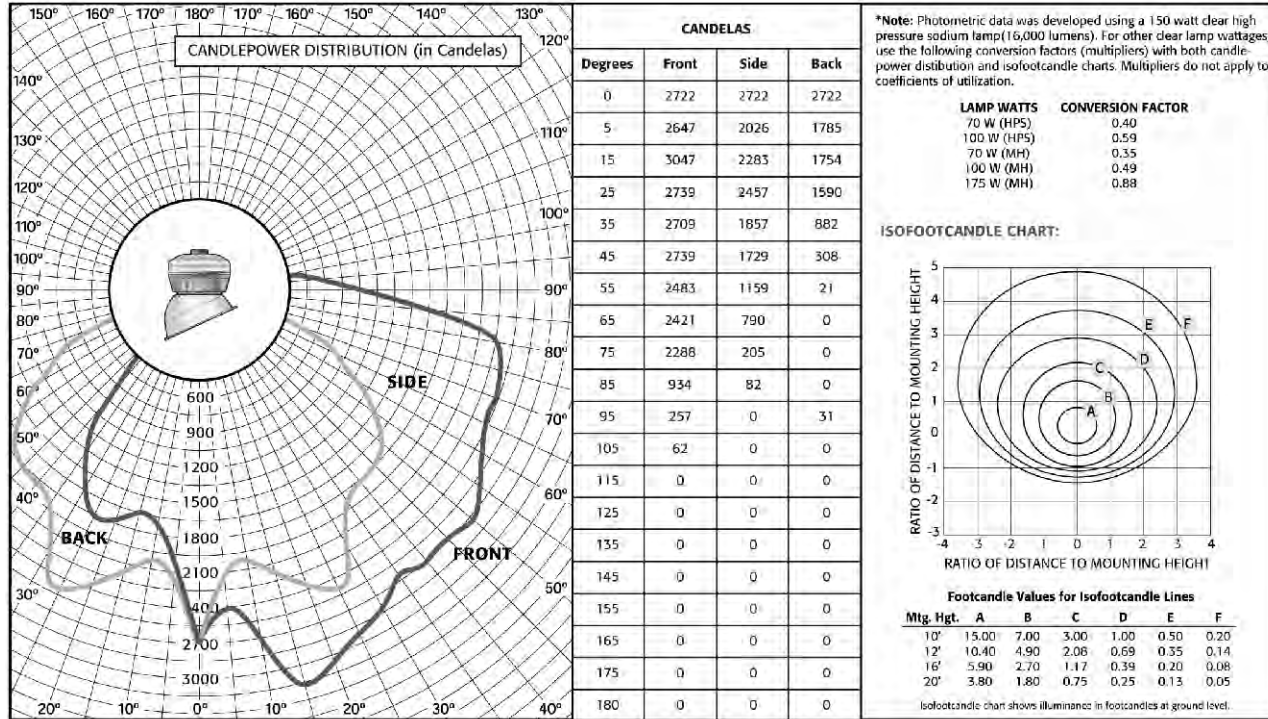
isofootcandle chart shows illuminance in footcandles at ground level.

Medium and Mogul Base

Medium Base

Luminaire with Globe and 30° Angle Reflector (Less Guard)

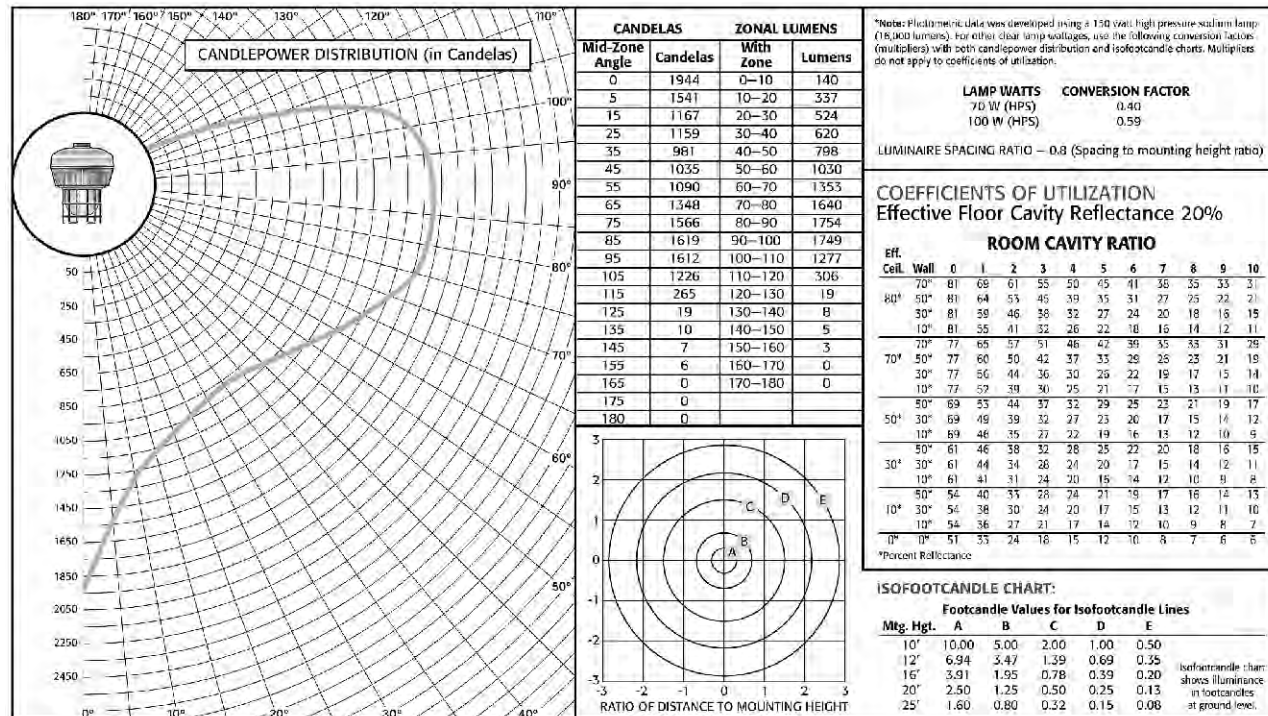
EVLP143150RA Lamp: 150W/B17 High Pressure Sodium (HPS)



Mogul Base

Luminaire with Globe and Guard

EVLP143151 Lamp: 150W/E23-1/2 High Pressure Sodium (HPS)

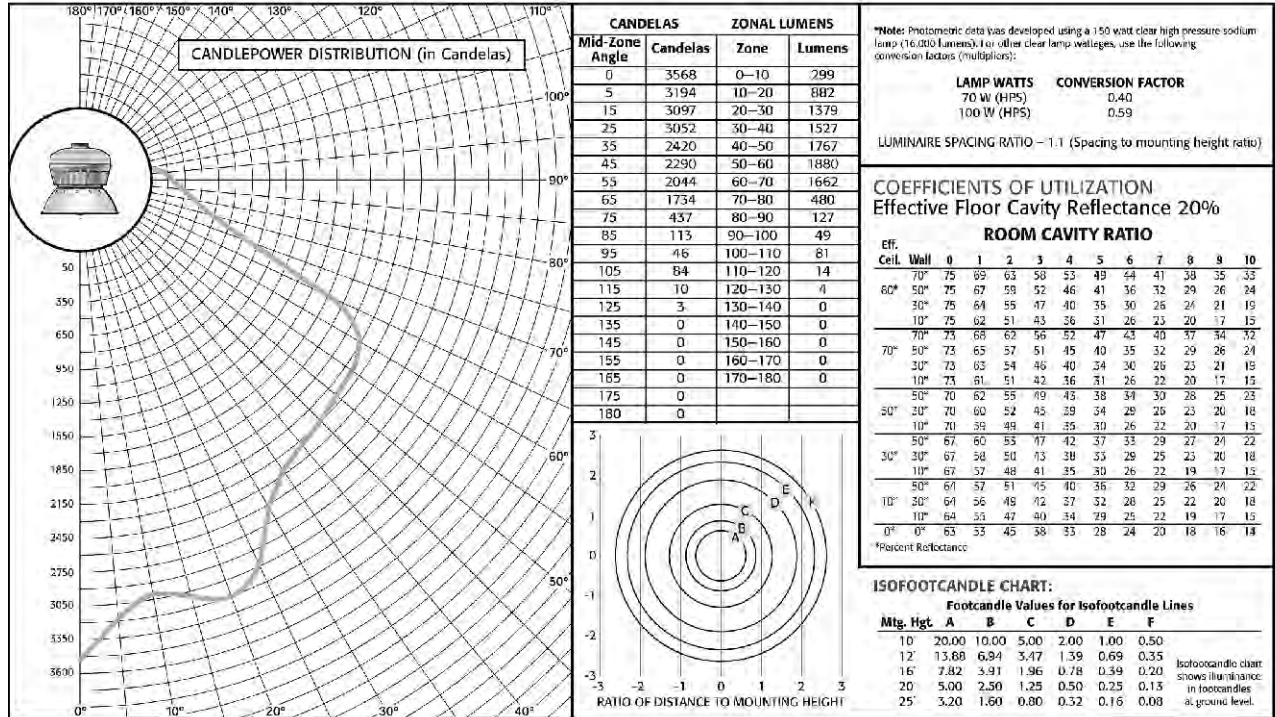


Mogul Base

Mogul Base

Luminaire with Globe and Dome Reflector (Less Guard)

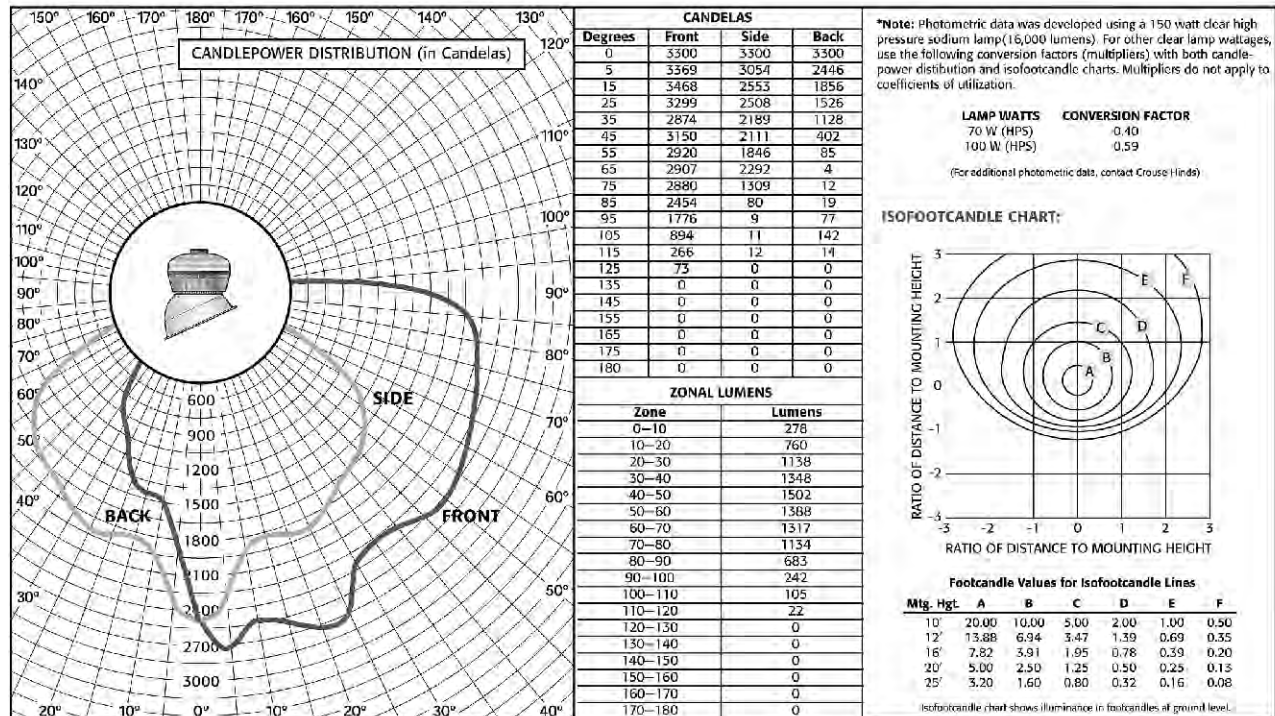
EVLP A043150RD Lamp: 150W/E23-1/2 High Pressure Sodium (HPS)



Mogul Base

Luminaire with Globe and 30° Angle Reflector (Less Guard)

EVLP A043150RA Lamp: 150W/E23-1/2 High Pressure Sodium (HPS)

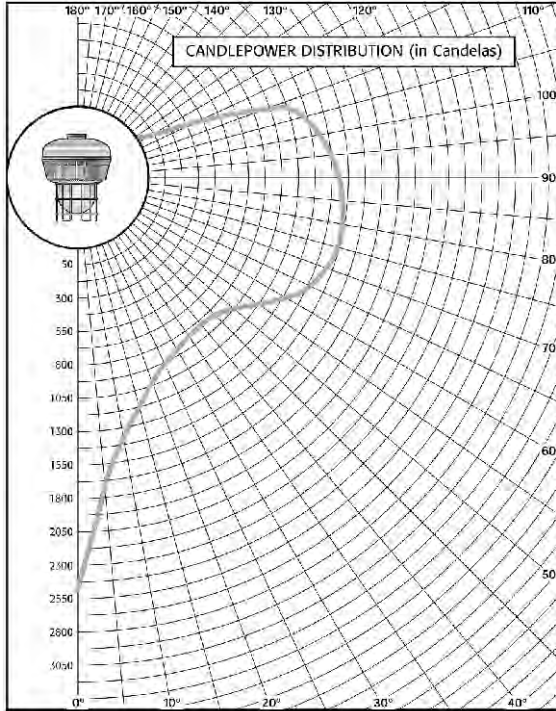


Mogul Base

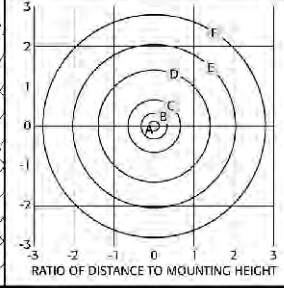
Mogul Base

Luminaire with Globe and Guard

EVLP093171 Lamp: 175W/ED28 Metal Halide (MH)



CANDELAS		ZONAL LUMENS	
Mid-Zone Angle	Candelas	Zone	Lumens
0	2439	0-10	158
5	1750	10-20	313
15	1089	20-30	464
25	1017	30-40	563
35	915	40-50	732
45	917	50-60	922
55	1035	60-70	1128
65	1229	70-80	1377
75	1337	80-90	1473
85	1359	90-100	1452
95	1335	100-110	1257
105	1196	110-120	427
115	390	120-130	23
125	24	130-140	9
135	12	140-150	3
145	9	150-160	0
155	0	160-170	0
165	0	170-180	0
175	0		
180	0		



*Note: Photometric data was developed using a 175 watt clear metal halide lamp (14,000 lumens). For other clear lamp wattages, use the following conversion factors (multipliers) with both candlepower distribution and isofootcandle charts. Multipliers do not apply to coefficients of utilization.

LAMP WATTS	CONVERSION FACTOR
70 W (MH)	0.40
100 W (MH)	0.56
250 W (MH)	1.46

LUMINAIRE SPACING RATIO = 0.4 (Spacing to mounting height ratio)
(For additional photometric data, contact Crouse-Hinds)

COEFFICIENTS OF UTILIZATION
Effective Floor Cavity Reflectance 20%

Eff. Ceil.	ROOM CAVITY RATIO											
	Wall	0	1	2	3	4	5	6	7	8	9	10
80°	70	82	70	62	56	51	48	45	43	41	39	37
	50	62	65	54	46	41	36	32	28	26	23	21
	30	82	60	48	36	33	28	25	21	19	17	15
70°	70	78	66	52	33	28	23	19	17	14	13	11
	50	78	61	41	44	36	34	30	27	24	22	20
	30	78	57	45	37	31	27	23	20	18	16	14
60°	70	78	66	58	52	47	43	40	36	34	31	29
	50	69	54	45	38	33	29	26	23	21	19	18
	30	69	50	40	33	28	24	21	18	16	14	13
50°	70	69	47	36	28	23	19	16	14	12	11	10
	50	61	47	39	33	29	26	23	20	19	17	16
	30	61	44	34	28	24	21	18	16	14	13	11
40°	70	61	42	31	25	21	17	15	12	11	10	9
	50	54	41	35	28	25	22	20	18	16	15	14
	30	54	39	30	25	21	18	16	14	12	11	10
30°	70	54	37	27	22	18	15	13	11	10	8	7
	50	51	33	24	19	15	13	11	9	8	7	6
	30	51	33	24	19	15	13	11	9	8	7	6

*Percent Reflectance

ISOFOOTCANDLE CHART:

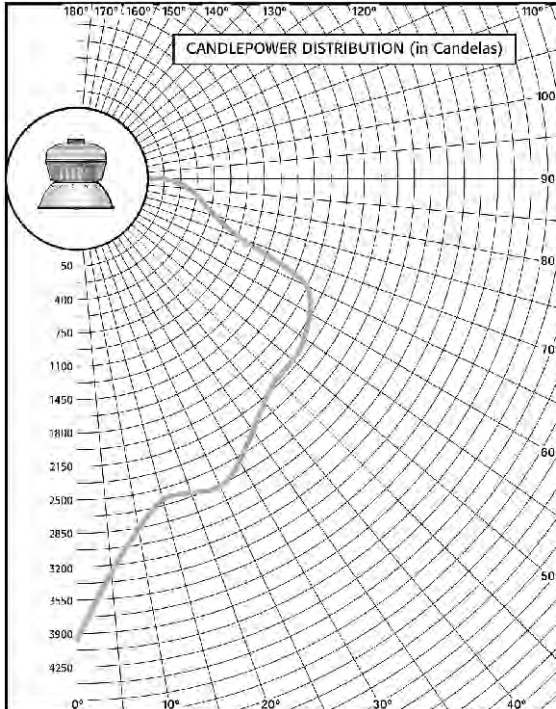
Mtg. Hgt.	Footcandle Values for Isofootcandle Lines					
	A	B	C	D	E	F
10'	20.00	10.00	5.00	2.00	1.00	0.50
12'	13.88	6.94	3.47	1.39	0.69	0.35
16'	7.82	3.91	1.96	0.78	0.39	0.20
20'	5.00	2.50	1.25	0.50	0.25	0.13
25'	3.20	1.60	0.80	0.32	0.16	0.08

Isofootcandle chart shows illuminance in footcandles at ground level.

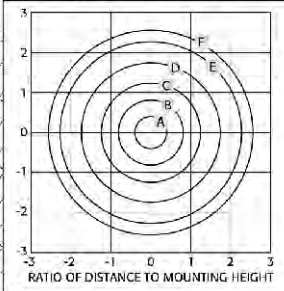
Mogul Base

Luminaire with Globe and Dome Reflector (Less Guard)

EVLP093170RD Lamp: 175W/ED28 Metal Halide (MH)



CANDELAS		ZONAL LUMENS	
Mid-Zone Angle	Candelas	Zone	Lumens
0	3941	0-10	300
5	5241	10-20	763
15	2651	20-30	1249
25	2777	30-40	1399
35	2219	40-50	1594
45	2047	50-60	1671
55	1880	60-70	1466
65	1693	70-80	466
75	432	80-90	121
85	102	90-100	20
95	14	100-110	88
105	99	110-120	16
115	13	120-130	2
125	3	130-140	0
135	0	140-150	0
145	0	150-160	0
155	0	160-170	0
165	0	170-180	0
175	0		
180	0		



*Note: Photometric data was developed using a 175 watt clear metal halide lamp (14,000 lumens). For other clear lamp wattages, use the following conversion factors (multipliers) with both candlepower distribution and isofootcandle charts. Multipliers do not apply to coefficients of utilization.

LAMP WATTS	CONVERSION FACTOR
70 W (MH)	0.40
100 W (MH)	0.56
250 W (MH)	1.46

LUMINAIRE SPACING RATIO = 1.0 (Spacing to mounting height ratio)

COEFFICIENTS OF UTILIZATION
Effective Floor Cavity Reflectance 20%

Eff. Ceil.	ROOM CAVITY RATIO											
	Wall	0	1	2	3	4	5	6	7	8	9	10
70°	70	70	71	65	60	55	50	46	42	39	36	34
	50°	78	68	60	53	47	42	37	33	30	27	25
	30°	78	66	56	48	42	36	31	27	24	22	20
60°	70	78	64	53	44	37	32	27	23	21	18	16
	50°	76	70	64	58	53	49	45	41	38	35	33
	30°	78	67	59	52	46	41	37	33	30	27	24
50°	70	76	65	55	47	41	36	31	27	24	22	20
	50°	76	62	52	44	37	32	27	23	20	18	16
	30°	72	64	57	50	45	40	35	31	29	26	24
40°	70	72	62	53	46	40	35	30	27	24	21	19
	50°	72	60	51	43	37	31	27	23	20	18	16
	30°	69	61	54	48	43	38	34	30	28	25	23
30°	70	69	60	52	45	39	34	30	26	23	21	19
	50°	69	58	49	42	36	31	26	23	20	18	16
	30°	66	59	52	46	41	37	33	30	27	24	22
20°	70	66	59	50	43	38	33	29	25	23	20	18
	50°	66	56	48	41	35	30	26	23	20	18	16
	30°	65	55	47	40	34	29	25	21	19	16	14

*Percent Reflectance

ISOFOOTCANDLE CHART:

Mtg. Hgt.	Footcandle Values for Isofootcandle Lines					
	A	B	C	D	E	F
10'	20.00	10.00	5.00	2.00	1.00	0.50
12'	13.88	6.94	3.47	1.39	0.69	0.35
16'	7.82	3.91	1.96	0.78	0.39	0.20
20'	5.00	2.50	1.25	0.50	0.25	0.13
25'	3.20	1.60	0.80	0.32	0.16	0.08

Isofootcandle chart shows illuminance in footcandles at ground level.

Mogul Base

Mogul Base

Luminaire with Globe and 30° Angle Reflector (Less Guard)

EVLP A093170RA Lamp: 175W/ED28 Metal Halide (MH)

