

IES INDOOR REPORT
PHOTOMETRIC FILENAME : EBB-15-70MH.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-1995
[TEST] Photopia 2.0.0.17 PHOTOMETRIC REPORT
[MANUFAC] TMS LIGHTING
[LUMINAIRE] EBBY PENDANT
[MORE] 15.5" DIAMETER ALUMINUM REFLECTOR
[MORE] INNER SURFACE FINISHED WITH WHITE POLYESTER POWDER COAT
[LUMCAT] EBB-15-70MH
[LAMP] 70W MH E17

CHARACTERISTICS

Lumens Per Lamp	7700 (1 lamp)
Total Lamp Lumens	7700
Luminaire Lumens	7202
Total Luminaire Efficiency	94 %
Luminaire Efficacy Rating (LER)	92
Total Luminaire Watts	78
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criteria (0-180)	1.02
Spacing Criteria (90-270)	1.08
Spacing Criteria (Diagonal)	1.42
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.00 ft
Luminous Width (90-270)	1.29 ft (Diameter)
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	11134	11451	11509
55	14413	14199	13908
65	18250	18651	18807
75	29763	29582	29616
85	81343	80844	79714

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>
0	1360.590	1360.590	1360.590	1360.590	1360.590	1360.590	1360.590	1360.590	1360.590
5	1296.019	1225.532	1222.157	1159.049	1182.656	1291.181	1170.946	1243.133	1223.632
10	1066.187	1059.629	1092.116	1104.853	1069.401	1060.508	1120.189	1088.973	1073.695
15	1001.405	1034.694	974.179	1025.697	1040.796	1026.956	1044.935	1006.429	1001.301
20	1027.699	997.612	998.228	1005.717	992.614	980.466	998.273	1039.378	1007.448
25	950.013	1005.736	996.020	991.549	1005.459	977.028	1007.391	981.474	993.082
30	976.784	975.538	990.888	981.693	980.525	1038.653	997.746	1025.615	1018.608
35	980.101	989.797	986.447	1014.507	974.641	975.513	977.123	997.291	1000.679
40	992.299	952.035	967.575	956.179	950.604	967.947	974.800	962.276	960.947
45	950.488	976.693	977.612	977.932	982.513	973.228	940.542	973.267	983.091
50	992.344	980.120	955.056	997.361	969.385	982.020	962.982	978.933	966.081
55	998.099	970.110	983.283	994.500	963.096	978.529	980.923	979.234	981.789
60	974.442	958.707	943.019	959.594	972.549	973.454	962.269	977.361	972.356
65	931.161	968.493	951.656	955.788	959.587	944.321	944.084	958.752	974.743
70	944.315	917.609	963.630	936.436	943.635	942.428	931.514	934.139	930.289
75	930.013	916.692	924.372	922.902	925.418	928.088	925.264	916.755	922.646
80	910.718	894.529	891.295	894.452	899.251	886.610	895.947	893.130	886.854
85	855.925	853.860	850.676	853.609	838.786	846.635	856.215	854.521	855.842
90	805.440	793.691	796.116	799.280	808.018	804.784	798.837	805.696	790.187
95	770.802	779.419	769.371	780.465	771.925	771.316	762.615	773.196	769.275
100	646.762	648.591	642.796	643.559	629.629	642.128	642.173	655.610	625.387
105	371.897	385.179	373.276	370.390	378.738	370.775	378.430	377.108	392.123
110	103.187	109.206	114.884	118.252	104.713	101.787	103.096	108.962	111.516
115	9.304	10.658	8.432	6.448	8.182	8.098	8.182	12.397	4.960
120	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	865.89	11.20	12.00
0-40	1484.09	19.30	20.60
0-60	3110.44	40.40	43.20
0-90	5955.81	77.30	82.70
90-120	1246.61	16.20	17.30
90-130	1246.61	16.20	17.30
90-150	1246.61	16.20	17.30
90-180	1246.61	16.20	17.30
0-180	7202.42	93.50	100.00

Total Luminaire Efficiency = 93.50%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	113.21
10-20	291.46
20-30	461.23
30-40	618.19
40-50	751.56
50-60	874.79
60-70	945.90
70-80	972.89
80-90	926.58
90-100	815.10
100-110	399.71
110-120	31.79
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

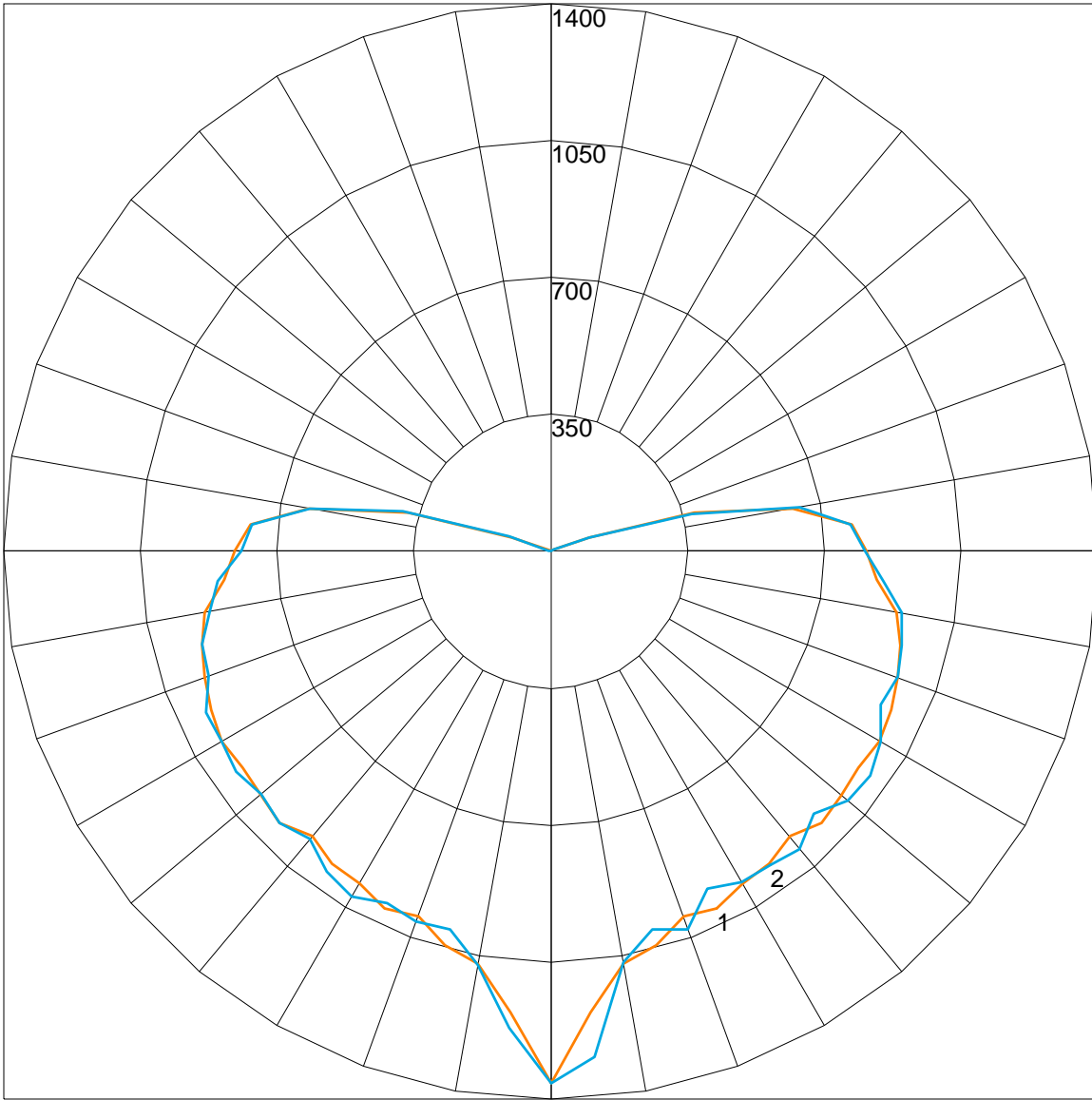
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	107	107	107	107	103	103	103	103	95	95	95	87	87	87	81	81	81	77
1	92	86	80	74	88	82	76	71	75	70	66	68	64	61	62	59	56	53
2	82	72	63	56	78	68	61	54	62	56	50	56	51	47	51	47	43	40
3	73	61	52	44	69	58	50	43	53	46	40	48	42	37	44	39	34	31
4	67	53	44	36	63	51	42	35	46	39	33	42	36	30	38	33	28	25
5	61	47	37	30	57	45	36	29	41	33	27	37	31	26	34	28	24	21
6	56	42	32	26	53	40	31	25	37	29	23	33	27	22	30	25	20	18
7	51	38	29	22	49	36	28	22	33	26	20	30	24	19	28	22	18	15
8	48	34	25	19	45	33	25	19	30	23	18	28	21	17	25	20	16	14
9	45	31	23	17	42	30	22	17	28	21	16	25	19	15	23	18	14	12
10	42	29	21	15	40	27	20	15	25	19	14	23	18	13	22	16	13	11

POLAR GRAPH



Maximum Candela = 1360.59 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)
2 - Vertical Plane Through Horizontal Angles (0 - 180)