

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : EBB-15-100MH.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-15-100MH  
[LAMP] 100W MH E17

**CHARACTERISTICS**

Lumens Per Lamp	11000 (1 lamp)
Total Lamp Lumens	11000
Luminaire Lumens	10289
Total Luminaire Efficiency	94 %
Luminaire Efficacy Rating (LER)	94
Total Luminaire Watts	110
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	15905	16359	16441
55	20590	20285	19868
65	26071	26645	26867
75	42518	42260	42308
85	116205	115492	113878

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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>
<b>0</b>	1943.703	1943.703	1943.703	1943.703	1943.703	1943.703	1943.703	1943.703	1943.703
<b>5</b>	1851.460	1750.763	1745.941	1655.786	1689.511	1844.547	1672.783	1775.907	1748.049
<b>10</b>	1523.126	1513.759	1560.169	1578.364	1527.719	1515.015	1600.272	1555.678	1533.853
<b>15</b>	1430.581	1478.136	1391.686	1465.284	1486.855	1467.083	1492.766	1437.758	1430.432
<b>20</b>	1468.144	1425.163	1426.043	1436.741	1418.023	1400.669	1426.106	1484.829	1439.214
<b>25</b>	1357.164	1436.768	1422.889	1416.501	1436.372	1395.756	1439.133	1402.109	1418.691
<b>30</b>	1395.408	1393.629	1415.556	1402.421	1400.753	1483.793	1425.354	1465.166	1455.156
<b>35</b>	1400.146	1413.998	1409.213	1449.299	1392.346	1393.592	1395.892	1424.704	1429.544
<b>40</b>	1417.573	1360.053	1382.252	1365.972	1358.008	1382.784	1392.574	1374.683	1372.784
<b>45</b>	1357.842	1395.279	1396.591	1397.049	1403.592	1390.329	1343.634	1390.384	1404.419
<b>50</b>	1417.636	1400.174	1364.369	1424.804	1384.839	1402.888	1375.691	1398.479	1380.118
<b>55</b>	1425.859	1385.874	1404.692	1420.716	1375.854	1397.901	1401.321	1398.909	1402.558
<b>60</b>	1392.063	1369.584	1347.172	1370.851	1389.358	1390.651	1374.672	1396.232	1389.082
<b>65</b>	1330.232	1383.564	1359.511	1365.414	1370.841	1349.032	1348.694	1369.649	1392.492
<b>70</b>	1349.024	1310.872	1376.616	1337.768	1348.052	1346.329	1330.736	1334.486	1328.986
<b>75</b>	1328.593	1309.563	1320.534	1318.434	1322.029	1325.843	1321.809	1309.652	1318.069
<b>80</b>	1301.028	1277.901	1273.281	1277.791	1284.646	1266.589	1279.926	1275.903	1266.936
<b>85</b>	1222.752	1219.803	1215.254	1219.444	1198.268	1209.481	1223.166	1220.746	1222.634
<b>90</b>	1150.631	1133.846	1137.310	1141.831	1154.314	1149.694	1141.198	1150.995	1128.840
<b>95</b>	1101.149	1113.458	1099.104	1114.952	1102.752	1101.882	1089.452	1104.568	1098.965
<b>100</b>	923.947	926.560	918.282	919.371	899.472	917.328	917.391	936.588	893.411
<b>105</b>	531.283	550.257	533.252	529.129	541.055	529.679	540.615	538.727	560.177
<b>110</b>	147.411	156.009	164.120	168.932	149.590	145.410	147.280	155.661	159.309
<b>115</b>	13.292	15.227	12.046	9.212	11.688	11.568	11.688	17.710	7.087
<b>120</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>125</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>130</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>135</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>140</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>145</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>150</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>155</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>160</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>165</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>170</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>175</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>180</b>	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	1236.99	11.20	12.00
0-40	2120.13	19.30	20.60
0-60	4443.49	40.40	43.20
0-90	8508.31	77.30	82.70
90-120	1780.88	16.20	17.30
90-130	1780.88	16.20	17.30
90-150	1780.88	16.20	17.30
90-180	1780.88	16.20	17.30
0-180	10289.19	93.50	100.00

Total Luminaire Efficiency = 93.50%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	161.73
10-20	416.37
20-30	658.90
30-40	883.14
40-50	1073.66
50-60	1249.7
60-70	1351.29
70-80	1389.84
80-90	1323.68
90-100	1164.44
100-110	571.02
110-120	45.42
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

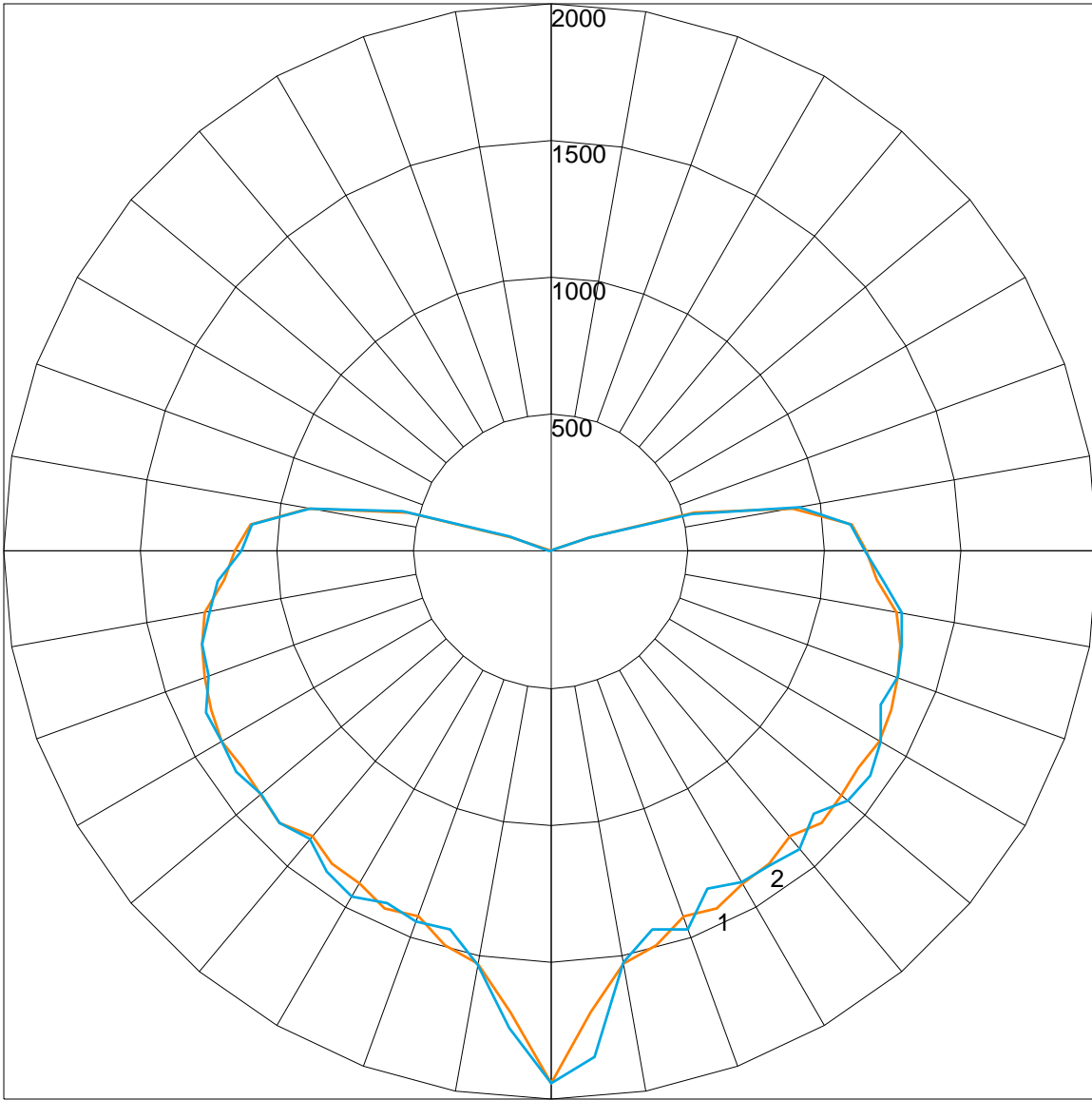
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	108	108	108	108	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 = 1943.703 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270)  
# 2 - Vertical Plane Through Horizontal Angles (0 - 180)