

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : EBB-15-32CF.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-15-32CF  
[LAMP] 32W PL-T CFL

**CHARACTERISTICS**

Lumens Per Lamp	2400 (1 lamp)
Total Lamp Lumens	2400
Luminaire Lumens	2264
Total Luminaire Efficiency	94 %
Luminaire Efficacy Rating (LER)	63
Total Luminaire Watts	36
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criteria (0-180)	1.36
Spacing Criteria (90-270)	1.34
Spacing Criteria (Diagonal)	1.64
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	3568	3615	3494
55	4203	4489	4360
65	5660	5664	5773
75	8863	8919	9024
85	25020	24713	25136

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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>	348.443	348.443	348.443	348.443	348.443	348.443	348.443	348.443	348.443
<b>5</b>	349.815	305.243	325.343	319.403	322.005	333.180	322.005	334.508	303.848
<b>10</b>	330.180	294.188	295.553	297.330	301.058	286.178	302.760	306.053	308.393
<b>15</b>	291.015	295.103	280.538	282.518	285.533	285.128	295.298	279.548	266.213
<b>20</b>	283.380	284.618	279.495	275.693	292.155	298.380	295.388	296.963	299.213
<b>25</b>	302.505	303.278	288.083	298.740	293.288	305.483	298.703	301.403	297.225
<b>30</b>	299.948	289.515	296.978	303.945	303.113	295.388	298.665	307.170	291.953
<b>35</b>	306.578	292.568	301.125	300.795	303.353	305.790	305.055	302.603	300.848
<b>40</b>	302.355	309.090	309.930	301.943	311.340	304.178	301.605	298.350	304.538
<b>45</b>	304.620	307.388	308.640	304.238	298.313	310.043	312.578	309.218	301.958
<b>50</b>	310.763	305.325	308.633	300.548	305.535	308.633	313.545	309.030	298.320
<b>55</b>	291.068	297.308	310.890	298.080	301.935	308.715	306.465	304.703	299.970
<b>60</b>	297.855	294.953	295.763	301.268	291.585	297.488	312.488	295.770	300.255
<b>65</b>	288.803	293.168	289.005	298.020	294.540	296.040	299.610	296.408	304.448
<b>70</b>	286.845	288.720	290.603	289.590	282.293	298.118	295.013	291.653	291.173
<b>75</b>	276.945	278.708	278.700	281.963	281.993	289.140	288.945	288.413	281.378
<b>80</b>	265.913	267.563	277.320	270.758	270.008	279.150	274.643	283.215	278.423
<b>85</b>	263.273	254.910	260.040	263.933	264.488	268.268	269.475	263.295	265.740
<b>90</b>	240.570	239.348	244.890	249.923	244.185	254.775	251.348	249.728	249.128
<b>95</b>	218.340	217.628	225.188	227.348	220.568	228.480	222.443	232.253	235.170
<b>100</b>	176.708	178.830	178.050	180.300	179.100	184.643	188.160	182.288	190.530
<b>105</b>	127.335	140.730	133.410	134.378	136.065	132.120	146.858	137.363	141.345
<b>110</b>	88.298	93.045	91.313	95.760	92.355	93.758	95.985	92.333	97.860
<b>115</b>	40.470	46.740	48.255	48.863	45.600	46.095	50.880	49.995	50.865
<b>120</b>	9.173	8.168	9.203	9.300	9.870	10.658	11.160	11.408	9.833
<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	249.70	10.40	11.00
0-40	439.41	18.30	19.40
0-60	948.33	39.50	41.90
0-90	1826.48	76.10	80.70
90-120	435.23	18.10	19.20
90-130	437.52	18.20	19.30
90-150	437.52	18.20	19.30
90-180	437.52	18.20	19.30
0-180	2264.00	94.30	100.00

Total Luminaire Efficiency = 94.30%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	30.35
10-20	82.09
20-30	137.26
30-40	189.71
40-50	237.27
50-60	271.65
60-70	292.79
70-80	299.27
80-90	286.09
90-100	239.94
100-110	145.51
110-120	49.78
120-130	2.29
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

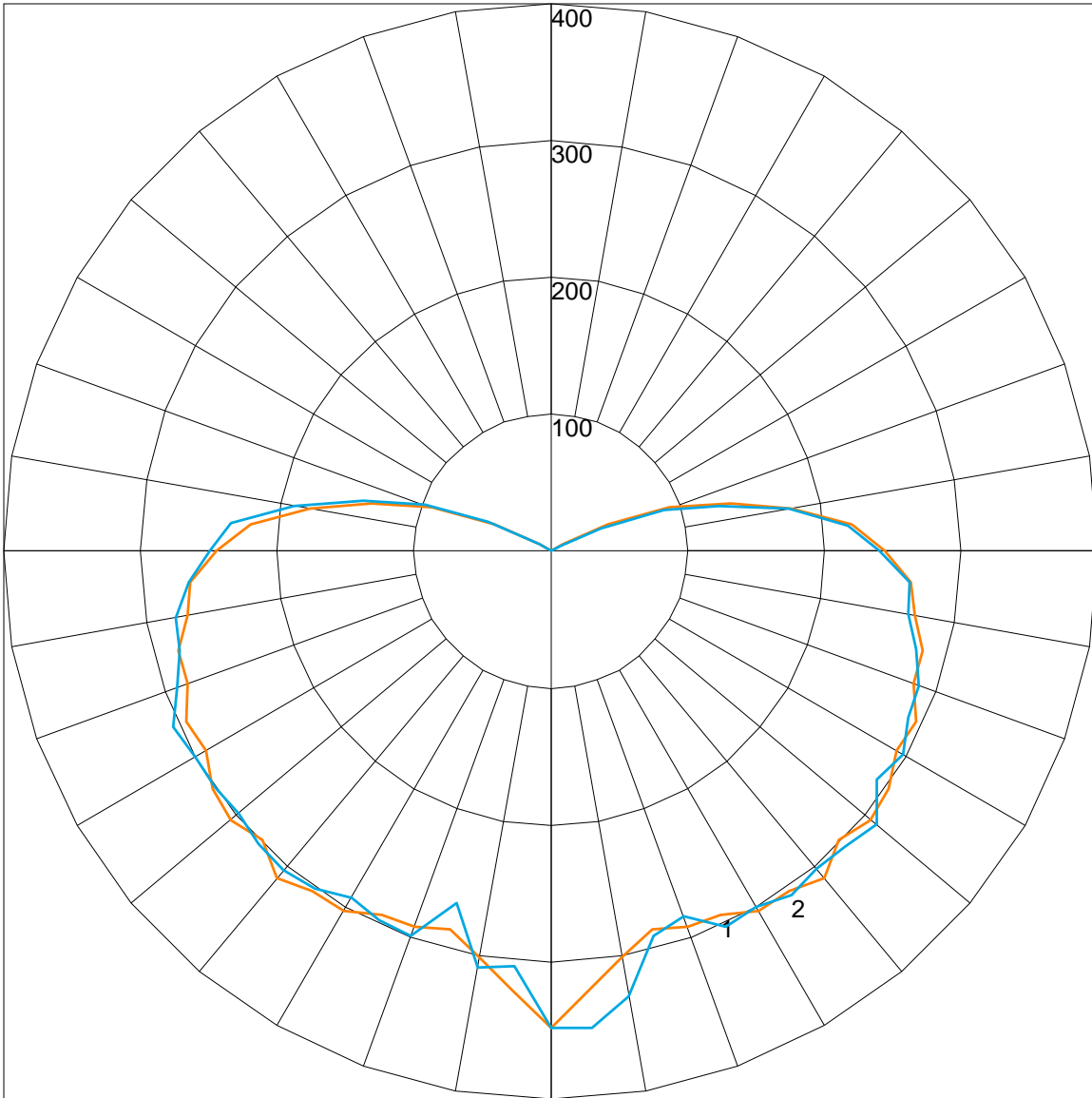
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	80	80	80	76
1	93	86	80	74	88	82	76	71	74	70	66	67	64	60	61	58	55	52
2	82	72	63	56	78	68	61	54	62	56	50	56	51	46	50	46	42	39
3	74	61	52	44	70	59	50	43	53	46	40	48	42	37	43	38	34	31
4	67	53	44	36	63	51	42	35	46	38	32	42	35	30	37	32	28	25
5	61	47	37	30	57	45	36	29	41	33	27	37	30	25	33	28	23	20
6	56	42	32	26	53	40	31	25	36	29	23	33	26	21	30	24	20	17
7	52	38	28	22	49	36	27	21	33	25	20	30	23	19	27	21	17	15
8	48	34	25	19	45	32	24	19	30	23	17	27	21	16	25	19	15	13
9	44	31	23	17	42	30	22	17	27	20	15	25	19	14	23	17	13	11
10	42	28	20	15	39	27	20	15	25	18	14	23	17	13	21	16	12	10

POLAR GRAPH



Maximum Candela = 349.815 Located At Horizontal Angle = 0, Vertical Angle = 5  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270)  
# 2 - Vertical Plane Through Horizontal Angles (0 - 180)