



IES INDOOR REPORT
PHOTOMETRIC FILENAME : MX2U-4-00-P8-835-F-POE X.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GEN FROM 13012869.07
 [TESTLAB] UL Verification Services Inc.
 [ISSUEDATE] 12/05/2019
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
 [LUMCAT] MX2U-4-00-P8-835-F-POE x
 [LUMINAIRE] Formed White aluminum housing, lens
 [LAMP] 144 White LEDs
 [OTHER] 24 C,
 [OTHER] This test was performed using the calibrated photodetector met
 [MORE] hod of absolute photometry.

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3448
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	137
Total Luminaire Watts	25.2
Ballast Factor	1.00
CIE Type	Indirect
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.96 ft
Luminous Width (90-270)	0.17 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	0	0	0
55	0	0	0
65	0	0	0
75	0	0	0
85	0	0	0

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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>
0.0	0.000	0.000	0.000	0.000	0.000
0.5	0.000	0.000	0.000	0.000	0.000
1.0	0.000	0.000	0.000	0.000	0.000
1.5	0.000	0.000	0.000	0.000	0.000
2.0	0.000	0.000	0.000	0.000	0.000
2.5	0.000	0.000	0.000	0.000	0.000
3.0	0.000	0.000	0.000	0.000	0.000
3.5	0.000	0.000	0.000	0.000	0.000
4.0	0.000	0.000	0.000	0.000	0.000
4.5	0.000	0.000	0.000	0.000	0.000
5.0	0.000	0.000	0.000	0.000	0.000
5.5	0.000	0.000	0.000	0.000	0.000
6.0	0.000	0.000	0.000	0.000	0.000
6.5	0.000	0.000	0.000	0.000	0.000
7.0	0.000	0.000	0.000	0.000	0.000
7.5	0.000	0.000	0.000	0.000	0.000
8.0	0.000	0.000	0.000	0.000	0.000
8.5	0.000	0.000	0.000	0.000	0.000
9.0	0.000	0.000	0.000	0.000	0.000
9.5	0.000	0.000	0.000	0.000	0.000
10.0	0.000	0.000	0.000	0.000	0.000
10.5	0.000	0.000	0.000	0.000	0.000
11.0	0.000	0.000	0.000	0.000	0.000
11.5	0.000	0.000	0.000	0.000	0.000
12.0	0.000	0.000	0.000	0.000	0.000
12.5	0.000	0.000	0.000	0.000	0.000
13.0	0.000	0.000	0.000	0.000	0.000
13.5	0.000	0.000	0.000	0.000	0.000
14.0	0.000	0.000	0.000	0.000	0.000
14.5	0.000	0.000	0.000	0.000	0.000
15.0	0.000	0.000	0.000	0.000	0.000
15.5	0.000	0.000	0.000	0.000	0.000
16.0	0.000	0.000	0.000	0.000	0.000
16.5	0.000	0.000	0.000	0.000	0.000
17.0	0.000	0.000	0.000	0.000	0.000
17.5	0.000	0.000	0.000	0.000	0.000
18.0	0.000	0.000	0.000	0.000	0.000
18.5	0.000	0.000	0.000	0.000	0.000
19.0	0.000	0.000	0.000	0.000	0.000
19.5	0.000	0.000	0.000	0.000	0.000
20.0	0.000	0.000	0.000	0.000	0.000
20.5	0.000	0.000	0.000	0.000	0.000
21.0	0.000	0.000	0.000	0.000	0.000
21.5	0.000	0.000	0.000	0.000	0.000
22.0	0.000	0.000	0.000	0.000	0.000
22.5	0.000	0.000	0.000	0.000	0.000
23.0	0.000	0.000	0.000	0.000	0.000
23.5	0.000	0.000	0.000	0.000	0.000
24.0	0.000	0.000	0.000	0.000	0.000
24.5	0.000	0.000	0.000	0.000	0.000
25.0	0.000	0.000	0.000	0.000	0.000
25.5	0.000	0.000	0.000	0.000	0.000
26.0	0.000	0.000	0.000	0.000	0.000
26.5	0.000	0.000	0.000	0.000	0.000

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CANDELA TABULATION - (Cont.)

27.0	0.000	0.000	0.000	0.000	0.000
27.5	0.000	0.000	0.000	0.000	0.000
28.0	0.000	0.000	0.000	0.000	0.000
28.5	0.000	0.000	0.000	0.000	0.000
29.0	0.000	0.000	0.000	0.000	0.000
29.5	0.000	0.000	0.000	0.000	0.000
30.0	0.000	0.000	0.000	0.000	0.000
30.5	0.000	0.000	0.000	0.000	0.000
31.0	0.000	0.000	0.000	0.000	0.000
31.5	0.000	0.000	0.000	0.000	0.000
32.0	0.000	0.000	0.000	0.000	0.000
32.5	0.000	0.000	0.000	0.000	0.000
33.0	0.000	0.000	0.000	0.000	0.000
33.5	0.000	0.000	0.000	0.000	0.000
34.0	0.000	0.000	0.000	0.000	0.000
34.5	0.000	0.000	0.000	0.000	0.000
35.0	0.000	0.000	0.000	0.000	0.000
35.5	0.000	0.000	0.000	0.000	0.000
36.0	0.000	0.000	0.000	0.000	0.000
36.5	0.000	0.000	0.000	0.000	0.000
37.0	0.000	0.000	0.000	0.000	0.000
37.5	0.000	0.000	0.000	0.000	0.000
38.0	0.000	0.000	0.000	0.000	0.000
38.5	0.000	0.000	0.000	0.000	0.000
39.0	0.000	0.000	0.000	0.000	0.000
39.5	0.000	0.000	0.000	0.000	0.000
40.0	0.000	0.000	0.000	0.000	0.000
40.5	0.000	0.000	0.000	0.000	0.000
41.0	0.000	0.000	0.000	0.000	0.000
41.5	0.000	0.000	0.000	0.000	0.000
42.0	0.000	0.000	0.000	0.000	0.000
42.5	0.000	0.000	0.000	0.000	0.000
43.0	0.000	0.000	0.000	0.000	0.000
43.5	0.000	0.000	0.000	0.000	0.000
44.0	0.000	0.000	0.000	0.000	0.000
44.5	0.000	0.000	0.000	0.000	0.000
45.0	0.000	0.000	0.000	0.000	0.000
45.5	0.000	0.000	0.000	0.000	0.000
46.0	0.000	0.000	0.000	0.000	0.000
46.5	0.000	0.000	0.000	0.000	0.000
47.0	0.000	0.000	0.000	0.000	0.000
47.5	0.000	0.000	0.000	0.000	0.000
48.0	0.000	0.000	0.000	0.000	0.000
48.5	0.000	0.000	0.000	0.000	0.000
49.0	0.000	0.000	0.000	0.000	0.000
49.5	0.000	0.000	0.000	0.000	0.000
50.0	0.000	0.000	0.000	0.000	0.000
50.5	0.000	0.000	0.000	0.000	0.000
51.0	0.000	0.000	0.000	0.000	0.000
51.5	0.000	0.000	0.000	0.000	0.000
52.0	0.000	0.000	0.000	0.000	0.000
52.5	0.000	0.000	0.000	0.000	0.000
53.0	0.000	0.000	0.000	0.000	0.000
53.5	0.000	0.000	0.000	0.000	0.000
54.0	0.000	0.000	0.000	0.000	0.000
54.5	0.000	0.000	0.000	0.000	0.000

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CANDELA TABULATION - (Cont.)

55.0	0.000	0.000	0.000	0.000	0.000
55.5	0.000	0.000	0.000	0.000	0.000
56.0	0.000	0.000	0.000	0.000	0.000
56.5	0.000	0.000	0.000	0.000	0.000
57.0	0.000	0.000	0.000	0.000	0.000
57.5	0.000	0.000	0.000	0.000	0.000
58.0	0.000	0.000	0.000	0.000	0.000
58.5	0.000	0.000	0.000	0.000	0.000
59.0	0.000	0.000	0.000	0.000	0.000
59.5	0.000	0.000	0.000	0.000	0.000
60.0	0.000	0.000	0.000	0.000	0.000
60.5	0.000	0.000	0.000	0.000	0.000
61.0	0.000	0.000	0.000	0.000	0.000
61.5	0.000	0.000	0.000	0.000	0.000
62.0	0.000	0.000	0.000	0.000	0.000
62.5	0.000	0.000	0.000	0.000	0.000
63.0	0.000	0.000	0.000	0.000	0.000
63.5	0.000	0.000	0.000	0.000	0.000
64.0	0.000	0.000	0.000	0.000	0.000
64.5	0.000	0.000	0.000	0.000	0.000
65.0	0.000	0.000	0.000	0.000	0.000
65.5	0.000	0.000	0.000	0.000	0.000
66.0	0.000	0.000	0.000	0.000	0.000
66.5	0.000	0.000	0.000	0.000	0.000
67.0	0.000	0.000	0.000	0.000	0.000
67.5	0.000	0.000	0.000	0.000	0.000
68.0	0.000	0.000	0.000	0.000	0.000
68.5	0.000	0.000	0.000	0.000	0.000
69.0	0.000	0.000	0.000	0.000	0.000
69.5	0.000	0.000	0.000	0.000	0.000
70.0	0.000	0.000	0.000	0.000	0.000
70.5	0.000	0.000	0.000	0.000	0.000
71.0	0.000	0.000	0.000	0.000	0.000
71.5	0.000	0.000	0.000	0.000	0.000
72.0	0.000	0.000	0.000	0.000	0.000
72.5	0.000	0.000	0.000	0.000	0.000
73.0	0.000	0.000	0.000	0.000	0.000
73.5	0.000	0.000	0.000	0.000	0.000
74.0	0.000	0.000	0.000	0.000	0.000
74.5	0.000	0.000	0.000	0.000	0.000
75.0	0.000	0.000	0.000	0.000	0.000
75.5	0.000	0.000	0.000	0.000	0.000
76.0	0.000	0.000	0.000	0.000	0.000
76.5	0.000	0.000	0.000	0.000	0.000
77.0	0.000	0.000	0.000	0.000	0.000
77.5	0.000	0.000	0.000	0.000	0.000
78.0	0.000	0.000	0.000	0.000	0.000
78.5	0.000	0.000	0.000	0.000	0.000
79.0	0.000	0.000	0.000	0.000	0.000
79.5	0.000	0.000	0.000	0.000	0.000
80.0	0.000	0.000	0.000	0.000	0.000
80.5	0.000	0.000	0.000	0.000	0.000
81.0	0.000	0.000	0.000	0.000	0.000
81.5	0.000	0.000	0.000	0.000	0.000
82.0	0.000	0.000	0.000	0.000	0.000
82.5	0.000	0.000	0.000	0.000	0.000

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CANDELA TABULATION - (Cont.)

83.0	0.000	0.000	0.000	0.000	0.000
83.5	0.000	0.000	0.000	0.000	0.000
84.0	0.000	0.000	0.000	0.000	0.000
84.5	0.000	0.000	0.000	0.000	0.000
85.0	0.000	0.000	0.000	0.000	0.000
85.5	0.000	0.000	0.000	0.000	0.000
86.0	0.000	0.000	0.000	0.000	0.000
86.5	0.000	0.000	0.000	0.000	0.000
87.0	0.000	0.000	0.000	0.000	0.000
87.5	0.000	0.000	0.000	0.000	0.000
88.0	0.000	0.000	0.000	0.000	0.000
88.5	0.000	0.000	0.000	0.000	0.000
89.0	0.000	0.000	0.000	0.000	0.000
89.5	0.000	0.000	0.000	0.000	0.000
90.0	6.056	6.787	6.787	7.310	7.518
90.5	8.458	8.667	8.040	8.563	8.771
91.0	11.069	10.964	9.398	9.711	9.920
91.5	15.768	13.575	10.860	10.964	11.069
92.0	20.571	16.185	12.844	12.426	12.426
92.5	25.479	19.109	15.037	14.097	13.992
93.0	30.596	22.555	17.543	15.977	15.977
93.5	35.608	26.419	20.362	18.483	18.065
94.0	40.620	30.909	23.495	21.198	20.571
94.5	45.737	35.086	26.732	24.017	23.182
95.0	50.853	39.263	30.178	26.836	26.001
95.5	55.970	43.753	33.728	29.656	28.820
96.0	60.982	48.243	37.383	32.475	31.535
96.5	65.994	53.359	41.142	35.399	34.146
97.0	71.216	58.267	44.901	38.323	36.652
97.5	76.437	63.279	48.974	41.455	39.471
98.0	81.240	68.501	53.151	44.692	42.500
98.5	86.566	74.348	57.954	48.347	45.632
99.0	91.682	79.674	63.802	52.002	48.869
99.5	96.799	84.999	68.501	55.866	52.211
100.0	101.707	90.429	73.304	59.625	55.761
100.5	106.719	96.068	78.525	63.384	59.520
101.0	112.775	101.707	83.328	67.456	63.488
101.5	117.788	107.241	88.132	71.842	67.456
102.0	122.800	113.611	92.831	77.272	71.738
102.5	127.916	120.294	97.112	83.851	76.123
103.0	133.555	126.872	101.707	89.698	80.822
103.5	138.881	133.973	106.406	95.755	86.461
104.0	144.311	141.074	111.105	101.289	94.606
104.5	151.098	147.234	115.595	106.301	101.185
105.0	156.946	152.978	121.233	111.000	106.092
105.5	163.002	159.347	126.663	116.117	111.209
106.0	169.372	165.822	131.571	121.442	116.639
106.5	175.846	172.087	137.419	126.455	121.860
107.0	182.320	178.979	143.371	131.467	126.977
107.5	188.272	185.766	149.532	136.792	132.198
108.0	194.433	192.762	154.648	141.805	137.837
108.5	200.907	200.594	159.869	146.712	143.162
109.0	207.695	208.948	165.822	152.038	148.279
109.5	214.795	217.197	171.878	158.512	154.126
110.0	222.836	225.133	178.457	165.717	159.243
110.5	230.981	233.591	185.140	172.087	165.299

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CANDELA TABULATION - (Cont.)

111.0	239.752	242.989	192.240	178.665	172.191
111.5	249.046	252.074	199.967	184.931	180.649
112.0	259.070	260.845	208.426	191.300	189.108
112.5	269.512	269.721	217.406	198.088	195.791
113.0	278.910	279.015	227.952	205.084	203.518
113.5	288.621	288.830	239.125	211.454	211.036
114.0	298.855	298.959	250.925	218.450	218.032
114.5	309.506	308.879	262.829	225.655	225.446
115.0	320.574	318.904	274.524	233.591	232.756
115.5	331.643	329.555	286.324	241.840	238.708
116.0	342.607	340.728	297.915	249.672	246.122
116.5	353.780	352.005	309.297	258.443	254.162
117.0	365.998	363.805	320.470	268.050	262.725
117.5	378.633	375.918	332.583	278.701	271.496
118.0	391.581	388.762	345.844	289.457	280.581
118.5	404.843	402.023	359.732	300.630	289.979
119.0	418.522	415.598	373.412	312.952	300.108
119.5	432.410	429.486	387.091	326.944	311.072
120.0	446.611	443.687	400.875	341.876	322.454
120.5	461.126	457.889	415.494	357.540	334.671
121.0	475.954	472.925	431.157	372.785	348.037
121.5	490.990	487.858	447.238	388.553	362.343
122.0	506.236	502.372	463.319	404.007	378.111
122.5	521.690	517.618	480.026	418.939	394.609
123.0	537.354	533.072	497.778	433.767	411.108
123.5	553.017	548.840	516.156	448.700	427.920
124.0	568.471	564.712	534.221	464.467	443.479
124.5	583.926	580.793	552.181	481.175	459.246
125.0	599.902	597.187	570.455	498.822	475.536
125.5	616.923	613.581	588.938	516.469	491.930
126.0	633.630	630.393	607.734	533.908	508.846
126.5	650.442	647.101	626.112	551.973	526.180
127.0	667.463	663.599	644.281	570.455	543.201
127.5	684.692	680.202	662.137	589.460	560.744
128.0	701.609	696.910	679.889	607.838	579.644
128.5	718.003	713.513	697.327	625.694	599.067
129.0	734.606	730.325	714.244	643.759	618.071
129.5	750.791	747.137	731.056	663.390	637.181
130.0	766.350	763.948	747.345	683.962	656.394
130.5	781.700	780.760	763.531	704.533	675.503
131.0	796.841	797.363	779.925	724.582	695.866
131.5	812.191	813.966	796.110	744.422	715.810
132.0	827.541	830.256	811.565	765.202	735.963
132.5	843.100	845.919	826.915	786.399	756.639
133.0	858.032	860.956	842.160	805.926	777.732
133.5	872.338	875.888	857.719	824.095	798.930
134.0	886.435	890.403	873.069	841.325	820.336
134.5	900.427	905.022	888.001	858.763	840.385
135.0	914.316	919.641	903.038	875.366	860.225
135.5	927.995	933.738	918.075	891.238	879.648
136.0	941.674	947.313	932.798	906.275	898.026
136.5	955.040	960.365	946.895	920.685	915.047
137.0	967.884	972.792	960.365	935.826	930.814
137.5	980.623	984.905	973.731	950.863	945.955
138.0	992.841	997.017	986.889	965.378	960.783
138.5	1004.849	1008.817	999.941	978.953	975.193

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CANDELA TABULATION - (Cont.)

139.0	1016.231	1020.199	1012.159	991.483	988.873
139.5	1026.882	1031.059	1023.645	1003.492	1002.030
140.0	1037.637	1041.710	1034.923	1015.082	1014.978
140.5	1048.393	1052.570	1046.304	1026.464	1027.613
141.0	1058.835	1061.968	1057.791	1037.637	1039.621
141.5	1069.277	1072.410	1068.233	1049.437	1050.481
142.0	1078.675	1082.852	1078.675	1060.923	1061.968
142.5	1087.029	1092.250	1088.073	1072.410	1072.410
143.0	1096.427	1101.648	1098.515	1082.852	1082.852
143.5	1105.825	1111.046	1107.913	1093.294	1093.294
144.0	1115.223	1120.444	1118.355	1103.736	1103.736
144.5	1123.576	1128.798	1127.753	1114.179	1114.179
145.0	1132.974	1137.151	1136.107	1123.576	1124.621
145.5	1141.328	1144.461	1144.461	1134.019	1135.063
146.0	1149.682	1152.815	1153.859	1144.461	1145.505
146.5	1158.036	1161.168	1163.257	1153.859	1154.903
147.0	1165.345	1169.522	1170.566	1164.301	1165.345
147.5	1172.655	1176.831	1178.920	1173.699	1174.743
148.0	1179.964	1184.141	1187.274	1183.097	1184.141
148.5	1187.274	1191.450	1194.583	1191.450	1193.539
149.0	1194.583	1197.716	1201.893	1199.804	1202.937
149.5	1200.848	1205.025	1209.202	1208.158	1212.335
150.0	1207.114	1212.335	1215.467	1215.467	1220.689
150.5	1214.423	1219.644	1222.777	1223.821	1230.086
151.0	1220.689	1226.954	1229.042	1231.131	1237.396
151.5	1226.954	1233.219	1236.352	1238.440	1245.750
152.0	1233.219	1240.529	1242.617	1245.750	1252.015
152.5	1240.529	1246.794	1247.838	1252.015	1259.325
153.0	1246.794	1253.059	1254.103	1258.280	1265.590
153.5	1253.059	1259.325	1259.325	1263.501	1271.855
154.0	1259.325	1265.590	1265.590	1269.767	1277.076
154.5	1264.546	1271.855	1270.811	1274.988	1283.342
155.0	1270.811	1278.120	1276.032	1280.209	1288.563
155.5	1277.076	1283.342	1281.253	1285.430	1292.739
156.0	1283.342	1289.607	1286.474	1290.651	1297.961
156.5	1289.607	1294.828	1291.695	1294.828	1302.137
157.0	1295.872	1300.049	1296.916	1300.049	1306.314
157.5	1301.093	1305.270	1302.137	1305.270	1310.491
158.0	1307.358	1309.447	1307.358	1309.447	1314.668
158.5	1312.580	1314.668	1311.535	1314.668	1318.845
159.0	1316.756	1318.845	1316.756	1318.845	1323.022
159.5	1321.978	1324.066	1321.978	1323.022	1328.243
160.0	1326.154	1328.243	1326.154	1327.199	1332.420
160.5	1329.287	1331.375	1330.331	1331.375	1337.641
161.0	1333.464	1335.552	1335.552	1335.552	1341.818
161.5	1337.641	1339.729	1339.729	1339.729	1347.039
162.0	1341.818	1342.862	1343.906	1344.950	1351.216
162.5	1345.994	1347.039	1348.083	1349.127	1356.437
163.0	1349.127	1350.171	1352.260	1353.304	1360.613
163.5	1353.304	1353.304	1355.392	1356.437	1364.790
164.0	1356.437	1357.481	1358.525	1360.613	1368.967
164.5	1359.569	1360.613	1362.702	1363.746	1373.144
165.0	1362.702	1363.746	1364.790	1367.923	1376.277
165.5	1364.790	1366.879	1367.923	1371.056	1379.409
166.0	1367.923	1370.011	1370.011	1374.188	1383.586
166.5	1371.056	1372.100	1372.100	1376.277	1385.675

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CANDELA TABULATION - (Cont.)

167.0	1374.188	1375.233	1375.233	1378.365	1388.807
167.5	1376.277	1377.321	1377.321	1381.498	1390.896
168.0	1379.409	1380.454	1379.409	1383.586	1392.984
168.5	1381.498	1382.542	1380.454	1385.675	1395.073
169.0	1384.630	1384.630	1382.542	1386.719	1397.161
169.5	1386.719	1386.719	1384.630	1387.763	1398.205
170.0	1388.807	1388.807	1386.719	1389.852	1399.249
170.5	1390.896	1390.896	1387.763	1390.896	1400.294
171.0	1392.984	1392.984	1389.852	1391.940	1401.338
171.5	1395.073	1394.028	1390.896	1391.940	1402.382
172.0	1396.117	1396.117	1391.940	1392.984	1403.426
172.5	1398.205	1397.161	1392.984	1394.028	1403.426
173.0	1399.249	1398.205	1394.028	1394.028	1404.471
173.5	1401.338	1400.294	1394.028	1395.073	1404.471
174.0	1402.382	1401.338	1395.073	1396.117	1404.471
174.5	1403.426	1401.338	1396.117	1396.117	1405.515
175.0	1404.471	1402.382	1396.117	1396.117	1405.515
175.5	1405.515	1403.426	1397.161	1397.161	1405.515
176.0	1405.515	1403.426	1397.161	1397.161	1405.515
176.5	1406.559	1404.471	1397.161	1397.161	1405.515
177.0	1406.559	1404.471	1398.205	1398.205	1405.515
177.5	1407.603	1404.471	1398.205	1398.205	1405.515
178.0	1407.603	1404.471	1398.205	1398.205	1405.515
178.5	1407.603	1405.515	1398.205	1398.205	1405.515
179.0	1407.603	1405.515	1399.249	1398.205	1405.515
179.5	1407.603	1405.515	1399.249	1398.205	1405.515
180.0	1402.382	1402.382	1402.382	1402.382	1402.382

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	0.00	N.A.	0.00
0-30	0.00	N.A.	0.00
0-40	0.00	N.A.	0.00
0-60	0.00	N.A.	0.00
0-80	0.00	N.A.	0.00
0-90	0.19	N.A.	0.00
10-90	0.19	N.A.	0.00
20-40	0.00	N.A.	0.00
20-50	0.00	N.A.	0.00
40-70	0.00	N.A.	0.00
60-80	0.00	N.A.	0.00
70-80	0.00	N.A.	0.00
80-90	0.19	N.A.	0.00
90-110	176.06	N.A.	5.10
90-120	453.15	N.A.	13.10
90-130	947.27	N.A.	27.50
90-150	2339.64	N.A.	67.90
90-180	3447.64	N.A.	100.00
110-180	3271.58	N.A.	94.90
0-180	3447.83	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	0.00
10-20	0.00
20-30	0.00
30-40	0.00
40-50	0.00
50-60	0.00
60-70	0.00
70-80	0.00
80-90	0.19
90-100	39.07
100-110	136.98
110-120	277.10
120-130	494.12
130-140	685.83
140-150	706.54
150-160	589.07
160-170	385.60
170-180	133.33

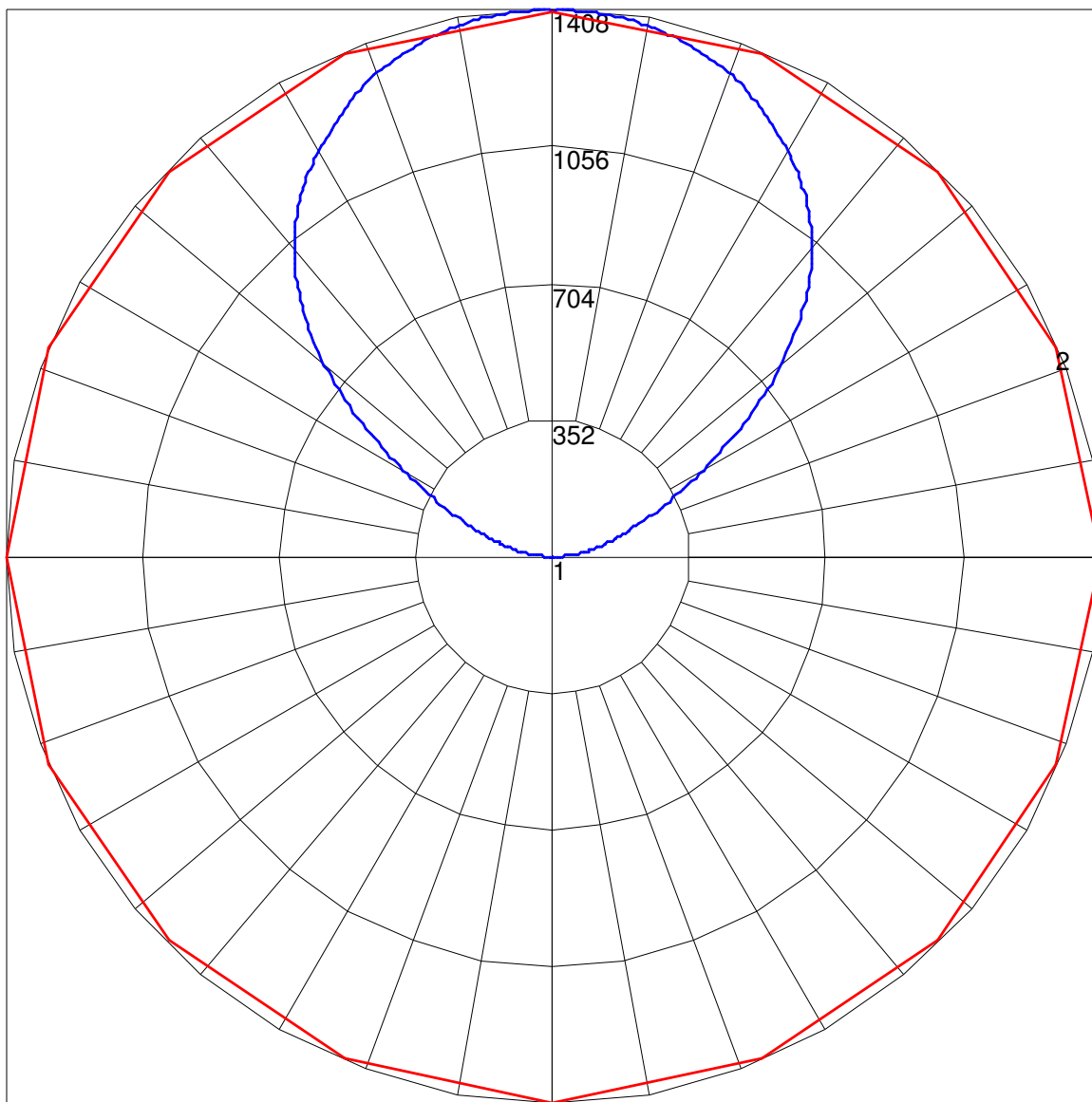
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	95	95	95	95	81	81	81	81	56	56	56	32	32	32	10	10	10	0
1	87	83	79	76	74	71	68	65	48	47	45	28	27	26	9	9	8	0
2	79	72	66	62	67	62	57	53	42	40	37	24	23	22	8	7	7	0
3	72	63	56	51	61	54	49	44	37	34	31	21	20	18	7	6	6	0
4	65	56	48	43	56	48	42	37	33	29	26	19	17	16	6	6	5	0
5	60	49	42	36	51	42	36	32	29	25	22	17	15	13	5	5	4	0
6	55	44	36	31	47	38	32	27	26	22	19	15	13	11	5	4	4	0
7	50	39	32	27	43	34	28	23	23	19	17	14	11	10	4	4	3	0
8	47	35	28	23	40	30	24	20	21	17	14	12	10	9	4	3	3	0
9	43	32	25	20	37	28	22	18	19	15	13	11	9	8	4	3	3	0
10	40	29	22	18	34	25	19	16	17	14	11	10	8	7	3	3	2	0

POLAR GRAPH



Maximum Candela = 1407.603 Located At Horizontal Angle = 0, Vertical Angle = 177.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (177.5) (Through Max. Cd.)