

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : COPY\_SD15-4-L27-835-DMA-100U-DIM-UNV.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] GEN FROM 12731921.01  
[TESTLAB] UL Verification Services Inc.  
[ISSUE DATE] 6-20-2023  
[MANUFAC] WILLIAMS INDOOR  
[OTHER] H.E. WILLIAMS, INC., CARTHAGE, MO. 64836  
[LUMINAIRE] 4' SUSPENDED LINEAR  
[MORE] WITH FROSTED ACRYLIC LENS  
[LUMCAT] SD15-4-L16-835-144W-DMA-100U-DIM-UNV  
[LAMPCAT] HLM 80 CRI, 3500K CCT  
[SEARCH\_SOURCETYPE] LED  
[SEARCH\_APPLICATION] Indoor, Architectural, Classroom, Direct-Indirect  
[SEARCH\_MOUNTING] Suspended

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5978
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	130
Total Luminaire Watts	46
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)	3.77 ft
Luminous Width (90-270)	0.40 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	0.000	0.000	0.000	0.000	0.000
90.5	1.669	5.962	7.631	7.929	7.750
91.0	2.921	9.241	11.387	11.924	11.506
91.5	4.710	12.043	15.799	16.276	15.859
92.0	6.975	14.547	19.853	21.165	20.628
92.5	9.718	19.018	22.715	25.636	25.636
93.0	12.758	29.213	25.755	28.856	29.333
93.5	16.336	48.888	29.154	32.194	32.671
94.0	20.390	69.993	33.208	35.950	36.189
94.5	24.980	88.475	38.693	40.064	40.302
95.0	29.988	106.301	47.874	44.535	44.655
95.5	35.473	124.008	68.562	49.543	49.484
96.0	41.316	142.311	111.726	55.863	54.730
96.5	47.695	159.958	173.014	67.250	60.454
97.0	54.432	178.142	225.241	89.667	71.483
97.5	61.706	196.802	270.670	129.671	94.556
98.0	69.277	215.403	323.970	193.523	129.254
98.5	77.326	232.753	365.286	275.022	187.502
99.0	85.792	250.638	393.664	347.519	270.849
99.5	94.496	269.001	418.525	414.590	354.375
100.0	103.677	289.033	443.923	482.496	425.978
100.5	113.157	308.409	470.453	550.701	499.726
101.0	123.054	326.414	498.772	609.306	571.746
101.5	133.189	345.850	526.972	646.866	641.500
102.0	143.801	366.418	551.833	674.291	706.485
102.5	154.771	388.298	576.396	701.119	744.641
103.0	165.741	410.179	603.344	729.736	772.662
103.5	177.068	430.390	628.980	753.584	799.491
104.0	188.813	450.660	651.636	781.605	828.704
104.5	200.618	468.665	670.714	816.184	851.955
105.0	212.661	486.252	689.792	847.186	876.995
105.5	225.062	506.523	710.658	870.437	908.593
106.0	237.522	527.509	732.717	893.092	941.384
106.5	250.161	543.069	755.373	918.132	967.020
107.0	262.920	558.570	776.239	944.961	988.483
107.5	275.857	576.218	797.106	968.809	1011.138
108.0	289.033	596.011	817.376	989.079	1037.370
108.5	302.268	614.076	837.647	1006.965	1063.603
109.0	315.742	628.980	857.917	1024.254	1086.854
109.5	329.395	644.481	878.784	1042.140	1105.336
110.0	342.690	658.194	899.054	1061.814	1120.837
110.5	356.343	674.291	918.729	1082.085	1136.934

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**CANDELA TABULATION - (Cont.)**

111.0	369.995	690.388	937.807	1102.355	1154.224
111.5	383.946	704.100	956.289	1122.029	1171.513
112.0	398.016	718.409	975.367	1141.107	1189.399
112.5	412.146	731.525	995.041	1158.993	1206.688
113.0	426.216	742.256	1015.311	1177.475	1223.978
113.5	440.346	751.199	1033.793	1194.765	1240.075
114.0	454.416	761.931	1049.890	1212.054	1256.768
114.5	468.307	773.855	1064.199	1228.151	1272.865
115.0	482.139	785.182	1078.508	1243.652	1288.366
115.5	496.149	795.317	1094.605	1259.153	1303.867
116.0	509.981	805.453	1111.894	1274.654	1318.772
116.5	524.051	815.588	1129.184	1289.559	1334.273
117.0	538.359	826.319	1147.666	1303.867	1348.582
117.5	552.549	837.051	1162.570	1318.772	1363.486
118.0	566.798	848.378	1172.706	1333.677	1377.199
118.5	580.927	859.110	1182.245	1349.178	1390.911
119.0	594.580	869.245	1192.380	1364.679	1404.623
119.5	608.710	879.380	1203.111	1380.180	1417.740
120.0	621.826	889.515	1214.439	1393.296	1430.856
120.5	635.538	899.651	1226.959	1404.027	1445.761
121.0	649.251	909.786	1238.286	1412.374	1460.069
121.5	662.367	919.325	1248.422	1420.124	1474.378
122.0	676.079	929.460	1257.365	1430.260	1485.705
122.5	689.792	939.595	1266.307	1442.780	1494.052
123.0	703.504	949.134	1274.654	1457.088	1501.206
123.5	716.620	958.673	1281.808	1470.801	1507.764
124.0	729.736	968.212	1288.366	1479.743	1516.707
124.5	743.449	977.155	1295.521	1485.705	1528.035
125.0	756.565	985.502	1303.271	1491.071	1541.747
125.5	770.277	993.849	1313.406	1495.840	1554.863
126.0	783.394	1001.599	1321.753	1501.802	1563.210
126.5	796.510	1009.350	1328.311	1507.764	1568.576
127.0	809.626	1017.100	1333.677	1514.322	1572.749
127.5	822.146	1024.254	1338.446	1521.477	1576.326
128.0	834.070	1031.409	1342.024	1528.035	1580.499
128.5	846.590	1037.967	1346.197	1534.593	1585.865
129.0	858.513	1044.525	1351.563	1540.555	1591.231
129.5	870.437	1051.083	1356.332	1545.324	1596.597
130.0	882.361	1057.641	1360.505	1549.498	1601.366
130.5	894.285	1063.603	1362.294	1553.075	1606.136
131.0	905.612	1069.565	1362.890	1554.863	1610.309
131.5	917.536	1075.527	1364.679	1556.652	1614.482
132.0	928.864	1080.892	1367.063	1558.440	1617.463
132.5	940.191	1086.854	1370.044	1562.018	1619.848
133.0	951.519	1092.220	1373.622	1566.191	1621.637
133.5	962.847	1097.586	1376.603	1569.768	1622.233
134.0	973.578	1102.951	1379.583	1570.960	1623.425
134.5	984.906	1107.721	1382.564	1569.768	1624.021
135.0	995.637	1113.087	1385.545	1569.172	1626.406
135.5	1006.369	1118.452	1387.930	1568.576	1629.983
136.0	1017.100	1123.222	1390.911	1569.768	1632.368
136.5	1027.831	1128.588	1393.296	1571.557	1630.579
137.0	1039.159	1133.357	1395.681	1572.749	1627.598
137.5	1049.890	1138.127	1397.469	1571.557	1625.810
138.0	1060.026	1142.896	1399.854	1569.172	1625.214
138.5	1070.757	1147.666	1401.642	1566.191	1625.214

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : COPY\_SD15-4-L27-835-DMA-100U-DIM-UNV.IES****CANDELA TABULATION - (Cont.)**

139.0	1080.892	1153.031	1403.431	1563.806	1626.406
139.5	1091.028	1158.397	1405.220	1562.614	1625.214
140.0	1101.163	1164.955	1406.412	1562.018	1621.637
140.5	1110.702	1171.513	1407.604	1562.018	1618.059
141.0	1120.241	1178.667	1408.797	1561.421	1613.886
141.5	1129.184	1185.226	1409.989	1560.825	1610.905
142.0	1138.723	1192.380	1410.585	1560.825	1608.520
142.5	1147.666	1199.534	1411.778	1560.229	1606.732
143.0	1157.205	1205.496	1412.374	1559.037	1605.539
143.5	1165.551	1212.054	1412.374	1558.440	1604.347
144.0	1174.494	1218.016	1412.970	1557.248	1602.558
144.5	1183.437	1223.382	1412.374	1555.459	1601.366
145.0	1191.784	1229.344	1412.374	1554.267	1599.578
145.5	1200.130	1234.709	1412.374	1552.479	1597.789
146.0	1208.477	1240.075	1411.778	1550.690	1595.404
146.5	1216.824	1245.441	1410.585	1548.305	1593.019
147.0	1225.170	1250.806	1409.989	1546.517	1590.635
147.5	1232.921	1256.172	1408.797	1544.132	1588.250
148.0	1241.267	1262.134	1407.008	1541.151	1585.269
148.5	1249.018	1267.500	1405.816	1538.766	1582.288
149.0	1256.768	1272.865	1404.027	1535.785	1578.711
149.5	1263.923	1278.231	1402.835	1532.804	1575.730
150.0	1271.673	1283.597	1400.450	1529.823	1572.153
150.5	1278.827	1288.366	1398.662	1526.842	1567.979
151.0	1285.982	1293.732	1396.277	1523.861	1564.402
151.5	1293.136	1299.098	1394.488	1520.284	1560.825
152.0	1300.290	1304.464	1392.103	1516.111	1556.652
152.5	1306.848	1309.829	1389.719	1512.534	1552.479
153.0	1313.406	1314.599	1387.334	1508.360	1548.305
153.5	1320.561	1319.964	1385.545	1503.591	1544.132
154.0	1326.523	1324.734	1383.757	1498.821	1539.362
154.5	1333.081	1330.100	1382.564	1494.052	1533.997
155.0	1339.043	1334.869	1381.372	1489.282	1528.631
155.5	1345.004	1339.639	1381.372	1483.917	1523.265
156.0	1350.966	1345.004	1383.757	1477.955	1517.303
156.5	1356.928	1349.774	1386.738	1472.589	1510.745
157.0	1362.294	1354.543	1389.719	1466.627	1504.187
157.5	1368.256	1359.313	1392.700	1460.665	1497.629
158.0	1373.622	1364.083	1395.681	1454.107	1491.071
158.5	1378.391	1368.852	1397.469	1448.741	1483.917
159.0	1383.757	1373.025	1398.662	1442.780	1476.762
159.5	1389.123	1377.795	1400.450	1438.010	1469.608
160.0	1393.892	1381.968	1401.642	1433.837	1462.454
160.5	1398.662	1386.738	1402.835	1429.663	1455.896
161.0	1402.835	1390.911	1404.623	1429.067	1449.934
161.5	1407.008	1395.084	1405.816	1429.663	1444.568
162.0	1411.778	1398.662	1407.604	1431.452	1439.799
162.5	1415.951	1402.239	1408.797	1433.241	1439.799
163.0	1420.124	1405.816	1409.989	1433.837	1440.395
163.5	1423.702	1409.393	1411.778	1433.241	1442.183
164.0	1427.875	1412.970	1412.970	1432.644	1443.972
164.5	1431.452	1415.951	1414.759	1432.048	1443.376
165.0	1435.029	1418.932	1416.547	1431.452	1442.183
165.5	1438.010	1421.913	1418.336	1431.452	1440.991
166.0	1441.587	1424.894	1420.124	1430.856	1440.395
166.5	1444.568	1427.875	1421.913	1430.856	1439.202

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CANDELA TABULATION - (Cont.)

167.0	1447.549	1430.856	1423.105	1430.856	1438.606
167.5	1450.530	1433.241	1424.894	1431.452	1438.010
168.0	1453.511	1435.625	1426.682	1431.452	1438.010
168.5	1455.896	1438.010	1427.875	1432.644	1438.010
169.0	1458.281	1440.395	1429.663	1433.241	1438.010
169.5	1460.665	1442.183	1431.452	1433.837	1438.010
170.0	1463.050	1444.568	1432.644	1434.433	1438.606
170.5	1464.839	1446.357	1434.433	1435.029	1438.606
171.0	1467.223	1448.145	1435.625	1435.625	1439.202
171.5	1469.012	1449.934	1436.818	1436.818	1439.799
172.0	1470.204	1451.126	1438.606	1437.414	1440.395
172.5	1471.993	1452.915	1439.799	1438.010	1440.395
173.0	1473.185	1454.107	1440.395	1439.202	1440.991
173.5	1474.974	1455.300	1441.587	1439.799	1441.587
174.0	1475.570	1456.492	1442.780	1440.395	1442.183
174.5	1476.762	1457.684	1443.376	1440.991	1442.780
175.0	1477.955	1458.281	1444.568	1441.587	1443.376
175.5	1478.551	1459.473	1445.164	1442.183	1443.972
176.0	1479.147	1460.069	1445.761	1442.780	1444.568
176.5	1479.743	1460.665	1445.761	1443.376	1445.164
177.0	1480.340	1461.261	1446.357	1443.972	1445.761
177.5	1480.936	1461.858	1446.953	1444.568	1446.357
178.0	1481.532	1461.858	1446.953	1444.568	1446.953
178.5	1481.532	1462.454	1446.953	1444.568	1446.953
179.0	1481.532	1462.454	1447.549	1445.164	1447.549
179.5	1481.532	1462.454	1447.549	1445.164	1447.549
180.0	1455.300	1455.300	1455.300	1455.300	1455.300



**IES INDOOR REPORT**  
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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	0.00	N.A.	0.00
10-90	0.00	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	0.00	N.A.	0.00
90-110	783.59	N.A.	13.10
90-120	1768.62	N.A.	29.60
90-130	2867.88	N.A.	48.00
90-150	4782.95	N.A.	80.00
90-180	5977.68	N.A.	100.00
110-180	5194.09	N.A.	86.90
0-180	5977.68	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	0.00
90-100	115.68
100-110	667.90
110-120	985.03
120-130	1099.27
130-140	1038.88
140-150	876.19
150-160	652.83
160-170	403.70
170-180	138.19

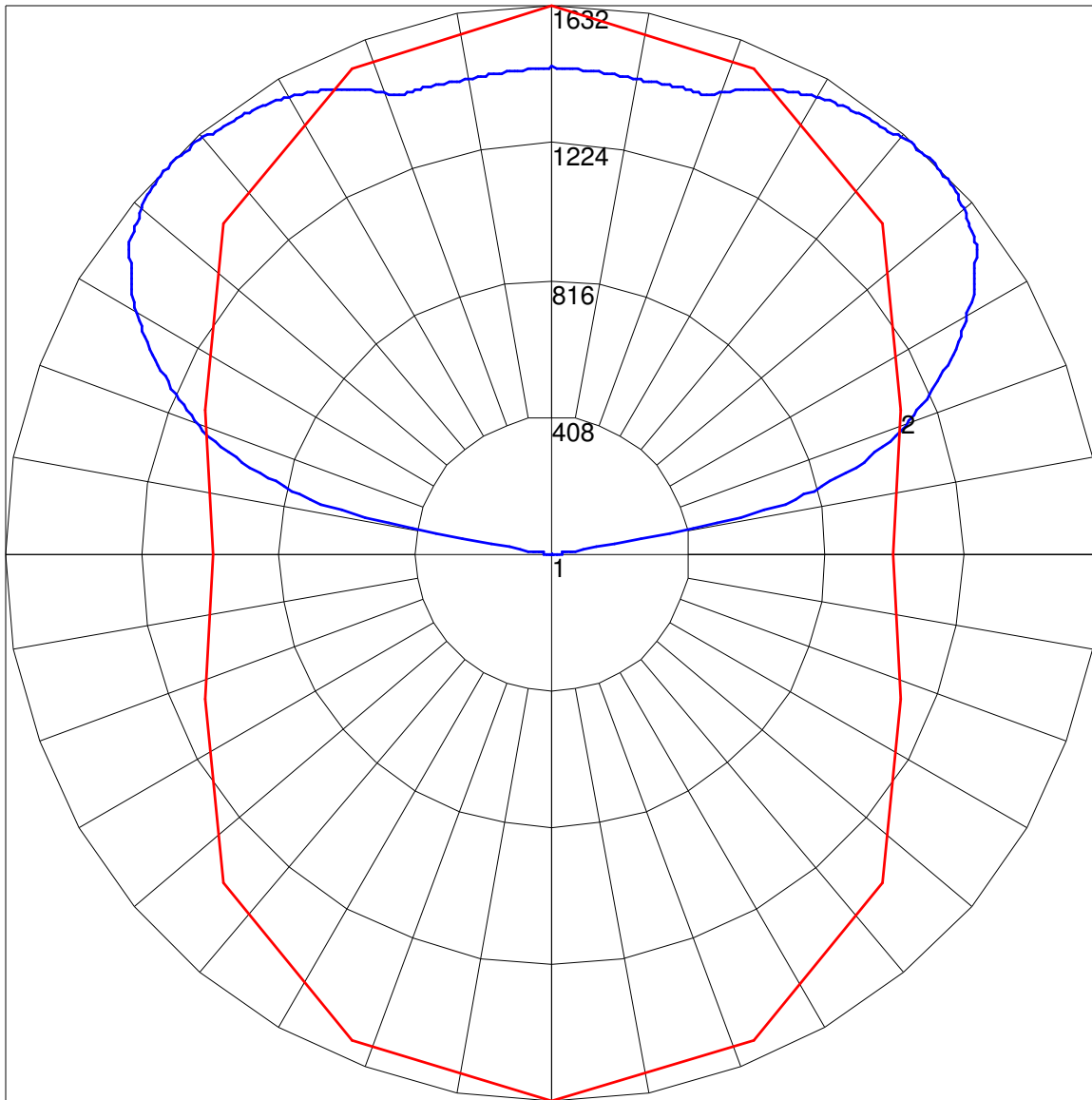
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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 = 1632.368 Located At Horizontal Angle = 90, Vertical Angle = 136  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (136) (Through Max. Cd.)