



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 44-48LED48DMVFR40.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LLIA000657-016

[TESTLAB] LightLab International Allentown, LLC

[MANUFAC] Mobern Lighting Co., 8200 Stayton Drive, Jessup, MD 20794, USA

[LUMCAT] 44-48LED48DMVFR40

[LUMINAIRE] Catalog Number: 44-48LED48DMVFR40

[MORE] Surface/pendant mounted, white formed steel housing and LED tray, frosted plastic lens

[MORE] enclosure with white steel endcaps. 128 white LEDs, four Universal Lighting Technologies

[MORE] Everline M10CC840D32N2S boards with 32 LED each. One Universal Lighting

[MORE] Technologies Everline D10CC55UNVTZ-C LED driver set at 860mA.

[MORE] 120.0Vac, 60.0Hz, 0.40A, 48.0W, 0.998PF, 5.14%THD(i)

[OTHER] Absolute test - lamp lumens value set to -1

[MORE] NA conventions used for C0 plane alignment and C-plane rotation direction.

[MORE] The sample was tested at a distance of 9.5m.

[MORE] This IES file was extrapolated from 44-48LED57DMVFR30

[DATE] The original file was created: Wednesday, October 12, 2016 2:57:52 PM

[ISSUE DATE] Wednesday, October 12, 2016 2:57:52 PM

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5955
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	124
Total Luminaire Watts	48
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.22
Spacing Criterion (Diagonal)	1.32
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	1.22 m
Luminous Width (90-270)	0.11 m
Luminous Height	0.03 m

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LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	12495	10977	10391
55	10877	9282	8905
65	9065	7605	7692
75	7112	6096	6606
85	4961	4856	5661

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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	2113.630	2113.630	2113.630	2113.630	2113.630
0.5	2104.150	2107.146	2120.519	2119.798	2109.079
1.0	2103.773	2106.830	2120.229	2119.394	2108.895
1.5	2103.447	2106.356	2119.605	2118.893	2108.535
2.0	2102.806	2105.732	2118.911	2118.067	2107.832
2.5	2101.734	2104.801	2118.032	2117.154	2107.032
3.0	2100.610	2103.614	2116.811	2116.073	2105.908
3.5	2099.274	2102.270	2115.467	2114.817	2104.572
4.0	2097.614	2100.689	2113.982	2113.244	2103.175
4.5	2095.848	2099.063	2112.172	2111.434	2101.523
5.0	2093.836	2096.999	2110.134	2109.475	2099.634
5.5	2091.701	2094.784	2107.867	2107.348	2097.543
6.0	2089.197	2092.465	2105.521	2104.915	2095.197
6.5	2086.693	2089.899	2102.815	2102.288	2092.808
7.0	2083.776	2087.141	2099.977	2099.441	2089.926
7.5	2080.639	2084.180	2097.007	2096.331	2086.947
8.0	2077.599	2080.903	2093.686	2092.939	2083.556
8.5	2074.032	2077.450	2090.110	2089.337	2079.998
9.0	2070.465	2073.909	2086.394	2085.629	2076.501
9.5	2066.634	2070.034	2082.493	2081.728	2072.547
10.0	2062.645	2065.922	2078.302	2077.388	2068.435
10.5	2058.296	2061.679	2073.979	2072.837	2064.007
11.0	2054.009	2057.286	2069.393	2068.312	2059.359
11.5	2049.132	2052.541	2064.482	2063.295	2054.422
12.0	2044.370	2047.639	2059.482	2058.033	2049.335
12.5	2039.292	2042.613	2054.316	2052.743	2044.098
13.0	2033.862	2037.236	2048.772	2047.129	2038.572
13.5	2028.424	2031.736	2043.228	2041.304	2032.852
14.0	2022.678	2025.990	2037.166	2035.145	2026.658
14.5	2016.756	2019.919	2031.033	2028.652	2020.226
15.0	2010.536	2013.953	2024.795	2022.115	2013.848
15.5	2004.254	2007.610	2018.276	2015.359	2007.188
16.0	1997.550	2001.012	2011.282	2008.067	2000.194
16.5	1990.732	1994.088	2004.297	2000.985	1992.955
17.0	1983.747	1987.077	1996.996	1993.412	1985.258
17.5	1976.578	1979.820	1989.634	1985.645	1977.773
18.0	1969.153	1972.360	1981.788	1977.641	1969.830
18.5	1961.483	1964.699	1973.863	1969.443	1961.685
19.0	1953.479	1956.818	1965.578	1960.877	1953.128
19.5	1945.581	1948.682	1957.152	1952.328	1944.526
20.0	1937.418	1940.379	1948.665	1943.252	1935.652
20.5	1928.975	1931.725	1939.659	1933.974	1926.418
21.0	1920.101	1922.913	1930.644	1924.670	1917.140
21.5	1911.412	1913.995	1921.375	1915.120	1907.801
22.0	1902.134	1904.620	1911.728	1905.156	1897.662
22.5	1892.909	1895.105	1902.011	1895.000	1887.532
23.0	1883.218	1885.502	1892.100	1884.755	1877.278
23.5	1873.316	1875.503	1881.900	1873.922	1866.805
24.0	1863.555	1865.426	1871.444	1863.309	1856.095
24.5	1853.310	1855.041	1860.831	1852.247	1845.060
25.0	1842.784	1844.375	1849.769	1840.834	1833.770
25.5	1832.276	1833.647	1838.752	1829.377	1822.357
26.0	1821.461	1822.568	1827.479	1817.797	1810.812
26.5	1810.057	1811.155	1815.882	1805.734	1798.890

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27.0	1798.819	1799.742	1804.021	1793.530	1786.756
27.5	1787.292	1788.074	1792.142	1781.230	1774.412
28.0	1775.229	1776.002	1779.824	1768.595	1761.865
28.5	1763.482	1763.913	1767.418	1755.759	1749.222
29.0	1751.173	1751.498	1754.907	1742.729	1736.333
29.5	1738.609	1738.741	1741.956	1729.550	1723.014
30.0	1726.124	1726.115	1728.988	1716.213	1709.773
30.5	1713.305	1713.129	1715.704	1702.507	1696.322
31.0	1699.933	1699.704	1702.129	1688.546	1682.431
31.5	1686.666	1686.288	1688.529	1674.647	1668.549
32.0	1673.206	1672.626	1674.787	1660.519	1654.527
32.5	1659.262	1658.691	1660.580	1646.075	1640.118
33.0	1645.363	1644.625	1646.426	1631.630	1625.691
33.5	1631.191	1630.506	1632.043	1616.949	1611.071
34.0	1616.650	1615.789	1617.362	1601.907	1596.337
34.5	1602.110	1601.187	1602.716	1587.042	1581.419
35.0	1587.305	1586.374	1587.850	1571.903	1566.377
35.5	1572.035	1571.130	1572.562	1556.405	1550.896
36.0	1556.730	1555.825	1557.283	1540.854	1535.591
36.5	1541.521	1540.651	1542.110	1525.417	1520.338
37.0	1525.575	1524.863	1526.418	1509.444	1504.471
37.5	1509.918	1509.119	1510.726	1493.655	1489.007
38.0	1493.866	1493.277	1494.955	1477.700	1473.236
38.5	1477.594	1477.041	1478.877	1461.384	1457.176
39.0	1461.252	1460.901	1462.939	1445.359	1441.273
39.5	1444.656	1444.568	1446.755	1429.113	1425.133
40.0	1427.584	1427.980	1430.115	1412.393	1408.826
40.5	1410.891	1411.497	1413.834	1396.236	1392.766
41.0	1393.881	1394.874	1397.484	1379.771	1376.599
41.5	1376.344	1377.970	1380.650	1363.104	1360.108
42.0	1359.203	1361.171	1364.079	1346.498	1343.915
42.5	1341.982	1344.267	1347.351	1329.937	1327.591
43.0	1324.270	1327.011	1330.174	1313.182	1311.029
43.5	1306.794	1309.966	1313.481	1296.462	1294.907
44.0	1289.117	1292.851	1296.357	1279.786	1278.539
44.5	1271.176	1275.385	1279.040	1262.794	1261.696
45.0	1253.481	1258.111	1262.083	1246.233	1245.503
45.5	1235.821	1240.785	1245.064	1229.627	1229.363
46.0	1217.502	1223.125	1227.694	1212.784	1212.802
46.5	1199.544	1205.720	1210.588	1196.196	1196.592
47.0	1181.629	1188.307	1193.315	1179.644	1180.496
47.5	1163.416	1170.480	1175.997	1162.862	1164.277
48.0	1145.299	1153.092	1158.768	1146.362	1148.128
48.5	1127.332	1135.564	1141.416	1129.880	1132.102
49.0	1108.995	1117.852	1124.011	1113.256	1115.910
49.5	1090.940	1100.420	1106.825	1097.064	1100.244
50.0	1072.973	1082.875	1089.675	1080.845	1084.649
50.5	1054.443	1065.092	1072.287	1064.345	1068.685
51.0	1036.563	1047.748	1055.181	1048.354	1053.318
51.5	1018.666	1030.299	1038.127	1032.425	1037.864
52.0	1000.392	1012.736	1020.889	1016.435	1022.313
52.5	982.494	995.252	1003.880	1000.611	1007.130
53.0	964.527	977.908	986.914	984.823	991.983
53.5	946.322	960.468	969.737	969.061	976.854
54.0	928.636	943.247	953.061	953.694	962.049
54.5	910.818	926.018	936.298	938.371	947.289

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55.0	892.781	908.551	919.376	922.917	932.476
55.5	875.253	891.638	902.946	907.849	918.067
56.0	857.742	874.699	886.481	892.991	903.816
56.5	840.021	857.487	869.832	877.967	889.336
57.0	822.475	840.653	853.577	863.233	875.340
57.5	805.070	823.802	837.394	848.631	861.239
58.0	787.524	806.827	821.113	834.020	847.225
58.5	770.321	790.274	805.298	819.707	833.598
59.0	753.171	773.713	789.431	805.509	819.927
59.5	736.056	757.002	773.555	791.381	806.274
60.0	719.178	740.792	757.995	777.508	792.928
60.5	702.458	724.537	742.610	763.723	779.766
61.0	685.361	708.108	726.980	749.771	766.297
61.5	668.799	692.047	711.859	736.311	753.294
62.0	652.501	676.048	696.747	722.877	740.344
62.5	635.816	659.996	681.750	709.505	727.349
63.0	619.712	644.374	667.007	696.317	714.609
63.5	603.625	628.717	652.413	683.252	701.922
64.0	587.423	613.043	637.723	670.196	689.147
64.5	571.740	597.729	623.534	657.395	676.856
65.0	556.048	582.380	609.344	644.638	664.441
65.5	540.321	566.882	595.199	631.863	651.851
66.0	524.981	551.901	581.308	619.431	639.726
66.5	509.755	537.071	567.672	607.069	627.602
67.0	494.441	522.038	554.001	594.628	615.319
67.5	479.522	507.523	540.559	582.442	603.379
68.0	464.700	492.982	527.301	570.422	591.500
68.5	449.913	478.406	514.051	558.359	579.604
69.0	435.557	464.314	501.215	546.472	567.839
69.5	421.245	450.177	488.475	534.751	556.101
70.0	406.801	436.146	475.692	522.864	544.266
70.5	392.831	422.396	463.242	511.345	532.809
71.0	379.204	408.953	451.021	499.897	521.238
71.5	365.331	395.405	438.694	488.352	509.878
72.0	351.932	382.253	426.736	477.106	498.500
72.5	338.806	369.293	414.963	465.974	487.315
73.0	325.618	356.641	403.181	454.746	476.087
73.5	312.896	343.919	391.733	443.851	465.008
74.0	300.095	331.452	380.293	432.834	453.929
74.5	287.662	319.178	369.082	422.036	442.964
75.0	275.485	307.325	358.144	411.404	432.236
75.5	263.536	295.561	347.311	400.923	421.526
76.0	251.587	283.876	336.539	390.318	410.781
76.5	239.981	272.577	326.057	380.082	400.404
77.0	228.735	261.515	315.795	369.961	389.975
77.5	217.436	250.559	305.542	359.787	379.634
78.0	206.533	239.849	295.517	349.788	369.469
78.5	195.664	229.359	285.703	340.062	359.339
79.0	185.024	218.956	275.889	330.222	349.375
79.5	174.859	209.010	266.506	320.680	339.561
80.0	164.685	199.152	257.166	311.270	329.967
80.5	154.616	189.479	247.941	301.808	320.285
81.0	145.048	180.043	239.058	292.750	310.998
81.5	135.577	170.861	230.246	283.770	301.685
82.0	126.193	161.741	221.539	274.765	292.486
82.5	117.091	152.912	213.061	266.031	283.445

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CANDELA TABULATION - (Cont.)

83.0	108.252	144.319	204.793	257.395	274.633
83.5	99.501	135.788	196.481	248.881	265.856
84.0	90.900	127.546	188.574	240.552	257.368
84.5	82.553	119.454	180.667	232.416	248.951
85.0	74.198	111.406	172.873	224.236	240.526
85.5	66.308	103.719	165.282	216.408	232.504
86.0	58.304	96.057	157.840	208.544	224.438
86.5	50.405	88.431	150.328	200.760	216.417
87.0	42.700	80.989	143.019	193.187	208.834
87.5	35.003	73.662	135.963	186.017	201.595
88.0	27.404	66.299	128.908	179.428	194.944
88.5	19.830	59.112	122.503	173.875	189.338
89.0	12.248	52.268	117.390	169.043	184.541
89.5	0.000	46.654	113.322	164.808	180.183
90.0	0.000	43.350	110.010	161.100	176.317
90.5	0.000	41.593	107.514	158.078	173.102
91.0	0.000	41.382	106.056	155.785	170.659
91.5	0.000	41.373	105.555	154.475	169.034
92.0	0.000	41.224	105.265	153.632	167.883
92.5	0.000	41.048	104.914	152.859	166.811
93.0	0.000	41.039	104.562	152.103	165.915
93.5	0.000	40.934	104.255	151.418	165.036
94.0	0.000	40.829	103.894	150.689	164.202
94.5	0.000	40.697	103.648	150.021	163.411
95.0	0.000	40.591	103.227	149.353	162.541
95.5	0.000	40.442	102.989	148.685	161.741
96.0	0.000	40.398	102.620	148.062	161.047
96.5	0.000	40.249	102.243	147.385	160.309
97.0	0.000	40.152	101.900	146.928	159.686
97.5	0.000	39.994	101.557	146.278	159.018
98.0	0.000	39.818	101.224	145.707	158.368
98.5	0.000	39.757	100.784	145.066	157.682
99.0	0.000	39.634	100.477	144.503	157.111
99.5	0.000	39.572	100.002	144.003	156.496
100.0	0.000	39.475	99.616	143.361	155.881
100.5	0.000	39.335	99.255	142.852	155.301
101.0	0.000	39.124	98.851	142.298	154.678
101.5	0.000	39.045	98.447	141.718	154.124
102.0	0.000	38.904	98.017	141.130	153.553
102.5	0.000	38.737	97.604	140.585	153.043
103.0	0.000	38.667	97.182	139.935	152.420
103.5	0.000	38.553	96.690	139.355	151.796
104.0	0.000	38.351	96.277	138.740	151.207
104.5	0.000	38.184	95.776	138.098	150.539
105.0	0.000	38.043	95.363	137.413	149.986
105.5	0.000	37.876	94.827	136.807	149.336
106.0	0.000	37.701	94.274	136.086	148.580
106.5	0.000	37.551	93.843	135.498	147.974
107.0	0.000	37.393	93.281	134.672	147.262
107.5	0.000	37.235	92.754	133.899	146.445
108.0	0.000	37.024	92.235	133.231	145.681
108.5	0.000	36.875	91.647	132.414	144.907
109.0	0.000	36.682	91.041	131.623	144.178
109.5	0.000	36.444	90.417	130.762	143.317
110.0	0.000	36.181	89.846	129.892	142.395
110.5	0.000	35.987	89.213	129.075	141.534

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CANDELA TABULATION - (Cont.)

111.0	0.000	35.768	88.580	128.214	140.532
111.5	0.000	35.557	88.053	127.344	139.689
112.0	0.000	35.206	87.271	126.351	138.705
112.5	0.000	34.933	86.656	125.420	137.747
113.0	0.000	34.722	85.927	124.462	136.710
113.5	0.000	34.503	85.277	123.496	135.638
114.0	0.000	34.213	84.521	122.521	134.575
114.5	0.000	33.967	83.766	121.449	133.521
115.0	0.000	33.615	83.080	120.438	132.440
115.5	0.000	33.308	82.334	119.349	131.342
116.0	0.000	33.132	81.543	118.295	130.182
116.5	0.000	32.816	80.778	117.135	129.040
117.0	0.000	32.508	80.005	116.028	127.828
117.5	0.000	32.174	79.267	114.991	126.659
118.0	0.000	31.920	78.415	113.867	125.376
118.5	0.000	31.586	77.528	112.760	124.155
119.0	0.000	31.234	76.763	111.600	122.784
119.5	0.000	30.979	75.990	110.449	121.546
120.0	0.000	30.646	75.112	109.228	120.219
120.5	0.000	30.426	74.321	108.059	118.945
121.0	0.000	30.145	73.512	106.838	117.513
121.5	0.000	29.864	72.792	105.520	116.221
122.0	0.000	29.565	71.984	104.334	114.851
122.5	0.000	29.275	71.070	103.016	113.524
123.0	0.000	28.994	70.226	101.821	112.145
123.5	0.000	28.721	69.365	100.565	110.791
124.0	0.000	28.467	68.504	99.317	109.456
124.5	0.000	28.212	67.670	98.069	108.033
125.0	0.000	27.948	66.800	96.857	106.680
125.5	0.000	27.650	66.000	95.618	105.265
126.0	0.000	27.456	65.131	94.353	103.912
126.5	0.000	27.219	64.322	93.123	102.568
127.0	0.000	26.859	63.470	91.822	101.109
127.5	0.000	26.674	62.609	90.601	99.783
128.0	0.000	26.367	61.810	89.336	98.403
128.5	0.000	26.077	60.975	88.115	97.024
129.0	0.000	25.831	60.158	86.841	95.618
129.5	0.000	25.585	59.349	85.699	94.239
130.0	0.000	25.312	58.436	84.416	92.780
130.5	0.000	24.979	57.698	83.221	91.436
131.0	0.000	24.697	56.819	81.947	90.057
131.5	0.000	24.460	55.993	80.752	88.791
132.0	0.000	24.197	55.229	79.513	87.350
132.5	0.000	23.872	54.377	78.310	85.989
133.0	0.000	23.599	53.568	77.097	84.706
133.5	0.000	23.257	52.795	75.797	83.353
134.0	0.000	23.011	51.969	74.663	81.938
134.5	0.000	22.712	51.152	73.389	80.524
135.0	0.000	22.422	50.396	72.186	79.171
135.5	0.000	22.044	49.544	71.017	77.844
136.0	0.000	21.851	48.701	69.822	76.465
136.5	0.000	21.561	47.936	68.627	75.191
137.0	0.000	21.201	47.093	67.380	73.820
137.5	0.000	20.867	46.320	66.211	72.493
138.0	0.000	20.533	45.547	64.955	71.140
138.5	0.000	20.234	44.738	63.830	69.919

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CANDELA TABULATION - (Cont.)

139.0	0.000	19.874	43.921	62.627	68.487
139.5	0.000	19.558	43.218	61.484	67.274
140.0	0.000	19.233	42.357	60.360	65.965
140.5	0.000	18.899	41.637	59.209	64.674
141.0	0.000	18.495	40.864	58.005	63.435
141.5	0.000	18.222	40.108	56.933	62.214
142.0	0.000	17.862	39.326	55.809	60.966
142.5	0.000	17.484	38.518	54.702	59.771
143.0	0.000	17.089	37.815	53.639	58.497
143.5	0.000	16.667	37.042	52.514	57.276
144.0	0.000	16.377	36.286	51.460	56.151
144.5	0.000	15.991	35.583	50.405	54.956
145.0	0.000	15.613	34.854	49.281	53.805
145.5	0.000	15.209	34.178	48.261	52.575
146.0	0.000	14.857	33.448	47.216	51.504
146.5	0.000	14.514	32.675	46.197	50.309
147.0	0.000	14.084	31.999	45.160	49.193
147.5	0.000	13.733	31.269	44.079	48.051
148.0	0.000	13.399	30.584	43.087	46.979
148.5	0.000	12.959	29.925	42.103	45.924
149.0	0.000	12.643	29.196	41.145	44.809
149.5	0.000	12.300	28.493	40.178	43.640
150.0	0.000	11.887	27.816	39.194	42.568
150.5	0.000	11.518	27.122	38.263	41.558
151.0	0.000	11.193	26.534	37.235	40.521
151.5	0.000	10.833	25.831	36.321	39.537
152.0	0.000	10.473	25.172	35.390	38.535
152.5	0.000	10.174	24.531	34.494	37.455
153.0	0.000	9.849	23.915	33.536	36.479
153.5	0.000	9.577	23.239	32.684	35.627
154.0	0.000	9.181	22.589	31.805	34.538
154.5	0.000	8.848	21.939	30.892	33.650
155.0	0.000	8.584	21.280	30.083	32.658
155.5	0.000	8.206	20.691	29.178	31.735
156.0	0.000	7.934	20.041	28.370	30.813
156.5	0.000	7.626	19.417	27.527	29.908
157.0	0.000	7.354	18.705	26.718	29.064
157.5	0.000	7.046	18.082	25.971	28.203
158.0	0.000	6.853	17.449	25.172	27.360
158.5	0.000	6.484	16.746	24.425	26.525
159.0	0.000	6.264	16.114	23.652	25.673
159.5	0.000	6.036	15.534	22.958	24.856
160.0	0.000	5.702	14.901	22.123	24.047
160.5	0.000	5.456	14.304	21.376	23.265
161.0	0.000	0.000	13.706	20.638	22.439
161.5	0.000	0.000	13.074	19.865	21.631
162.0	0.000	0.000	12.590	19.171	20.876
162.5	0.000	0.000	11.993	18.468	20.058
163.0	0.000	0.000	11.466	17.730	19.241
163.5	0.000	0.000	10.921	17.010	18.495
164.0	0.000	0.000	10.280	16.342	17.774
164.5	0.000	0.000	9.849	15.622	17.010
165.0	0.000	0.000	9.260	14.945	16.263
165.5	0.000	0.000	8.742	14.277	15.472
166.0	0.000	0.000	8.206	13.522	14.690
166.5	0.000	0.000	7.784	12.792	14.031

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CANDELA TABULATION - (Cont.)

167.0	0.000	0.000	7.231	12.151	13.232
167.5	0.000	0.000	6.721	11.439	12.573
168.0	0.000	0.000	6.247	10.754	11.773
168.5	0.000	0.000	5.825	10.034	11.106
169.0	0.000	0.000	5.298	9.383	10.403
169.5	0.000	0.000	0.000	8.768	9.691
170.0	0.000	0.000	0.000	8.092	9.058
170.5	0.000	0.000	0.000	7.398	8.250
171.0	0.000	0.000	0.000	6.704	7.565
171.5	0.000	0.000	0.000	6.097	6.862
172.0	0.000	0.000	0.000	5.421	6.194
172.5	0.000	0.000	0.000	0.000	5.544
173.0	0.000	0.000	0.000	0.000	0.000
173.5	0.000	0.000	0.000	0.000	0.000
174.0	0.000	0.000	0.000	0.000	0.000
174.5	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000
175.5	0.000	0.000	0.000	0.000	0.000
176.0	0.000	0.000	0.000	0.000	0.000
176.5	0.000	0.000	0.000	0.000	0.000
177.0	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000
178.0	0.000	0.000	0.000	0.000	0.000
178.5	0.000	0.000	0.000	0.000	0.000
179.0	0.000	0.000	0.000	0.000	0.000
179.5	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	768.82	N.A.	12.90
0-30	1617.15	N.A.	27.20
0-40	2604.43	N.A.	43.70
0-60	4391.61	N.A.	73.70
0-80	5379.17	N.A.	90.30
0-90	5563.77	N.A.	93.40
10-90	5363.99	N.A.	90.10
20-40	1835.61	N.A.	30.80
20-50	2802.59	N.A.	47.10
40-70	2394.44	N.A.	40.20
60-80	987.56	N.A.	16.60
70-80	380.30	N.A.	6.40
80-90	184.60	N.A.	3.10
90-110	193.75	N.A.	3.30
90-120	268.93	N.A.	4.50
90-130	324.01	N.A.	5.40
90-150	380.05	N.A.	6.40
90-180	391.63	N.A.	6.60
110-180	197.89	N.A.	3.30
0-180	5955.41	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	199.78
10-20	569.05
20-30	848.33
30-40	987.28
40-50	966.98
50-60	820.20
60-70	607.26
70-80	380.30
80-90	184.60
90-100	102.43
100-110	91.31
110-120	75.18
120-130	55.08
130-140	35.91
140-150	20.12
150-160	9.04
160-170	2.45
170-180	0.10

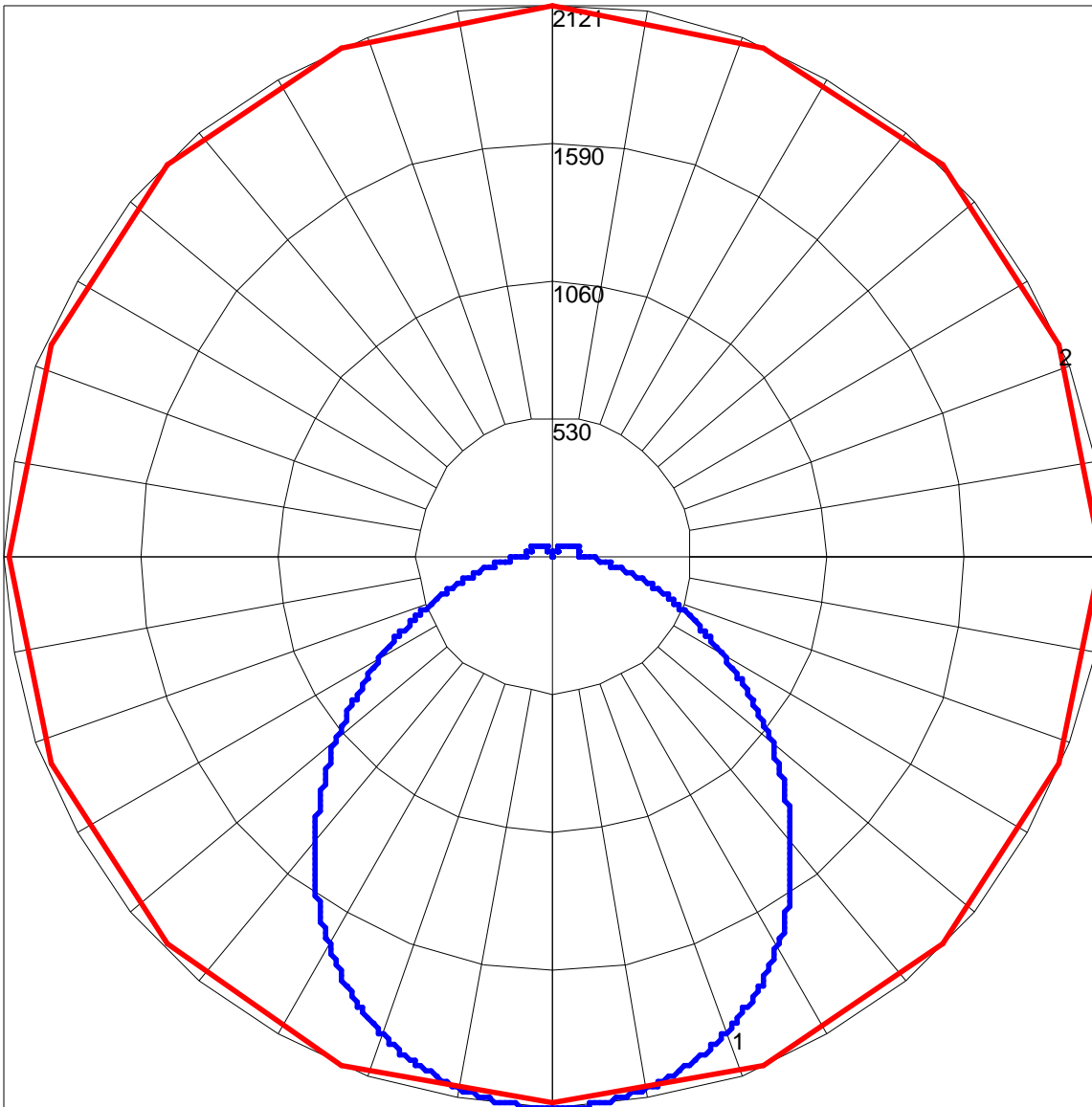
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC RW	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	117	117	117	117	114	114	114	114	107	107	107	101	101	101	96	96	96	93
1	107	102	98	94	104	99	95	92	94	91	88	89	86	84	84	82	80	78
2	97	89	82	77	94	87	81	75	82	77	73	78	74	70	74	70	67	65
3	89	79	70	64	86	76	69	63	73	66	61	69	64	59	66	61	57	55
4	82	70	61	55	79	68	60	54	65	58	52	62	56	51	59	54	50	47
5	75	63	54	47	73	61	53	47	58	51	45	55	49	44	53	48	43	41
6	69	56	48	41	67	55	47	41	53	45	40	50	44	39	48	43	38	36
7	65	51	43	37	62	50	42	36	48	41	35	46	40	35	44	38	34	32
8	60	47	38	33	58	46	38	32	44	37	32	42	36	31	41	35	31	29
9	56	43	35	29	54	42	34	29	41	34	29	39	33	28	38	32	28	26
10	53	40	32	27	51	39	32	27	38	31	26	36	30	26	35	29	25	24

POLAR GRAPH



Maximum Candela = 2120.519 Located At Horizontal Angle = 45, Vertical Angle = .5
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (.5) (Through Max. Cd.)