



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 44-48LED35DMVFR40.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] 44-48LED35DMVFR40
 [LUMINAIRE] Catalog Number: 44-48LED35DMVFR40
 [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 637mA.
 [MORE] 120.0Vac, 60.0Hz, 0.29A, 35.0W, 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	4525
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	129
Total Luminaire Watts	35
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	9494	8341	7896
55	8265	7053	6766
65	6888	5779	5844
75	5404	4632	5019
85	3769	3690	4301

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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	1606.032	1606.032	1606.032	1606.032	1606.032
0.5	1598.829	1601.105	1611.266	1610.718	1602.574
1.0	1598.541	1600.865	1611.046	1610.411	1602.434
1.5	1598.294	1600.504	1610.572	1610.031	1602.160
2.0	1597.807	1600.030	1610.044	1609.403	1601.626
2.5	1596.993	1599.323	1609.377	1608.709	1601.018
3.0	1596.138	1598.421	1608.449	1607.888	1600.164
3.5	1595.123	1597.400	1607.427	1606.933	1599.149
4.0	1593.862	1596.198	1606.299	1605.738	1598.087
4.5	1592.520	1594.963	1604.924	1604.363	1596.832
5.0	1590.991	1593.394	1603.375	1602.874	1595.397
5.5	1589.369	1591.712	1601.652	1601.259	1593.808
6.0	1587.466	1589.949	1599.870	1599.409	1592.026
6.5	1585.563	1588.000	1597.814	1597.413	1590.210
7.0	1583.347	1585.904	1595.657	1595.250	1588.020
7.5	1580.964	1583.654	1593.401	1592.887	1585.757
8.0	1578.654	1581.164	1590.877	1590.310	1583.180
8.5	1575.943	1578.540	1588.160	1587.573	1580.476
9.0	1573.233	1575.850	1585.336	1584.755	1577.819
9.5	1570.322	1572.906	1582.372	1581.791	1574.815
10.0	1567.291	1569.781	1579.188	1578.493	1571.691
10.5	1563.986	1566.557	1575.903	1575.035	1568.326
11.0	1560.729	1563.219	1572.418	1571.597	1564.794
11.5	1557.023	1559.614	1568.686	1567.785	1561.042
12.0	1553.405	1555.888	1564.888	1563.786	1557.177
12.5	1549.546	1552.070	1560.962	1559.767	1553.198
13.0	1545.421	1547.984	1556.750	1555.501	1548.999
13.5	1541.288	1543.805	1552.537	1551.075	1544.653
14.0	1536.922	1539.439	1547.931	1546.395	1539.946
14.5	1532.422	1534.826	1543.271	1541.462	1535.059
15.0	1527.696	1530.293	1538.531	1536.495	1530.213
15.5	1522.922	1525.473	1533.577	1531.361	1525.152
16.0	1517.829	1520.459	1528.263	1525.820	1519.838
16.5	1512.648	1515.198	1522.956	1520.439	1514.337
17.0	1507.341	1509.871	1517.408	1514.684	1508.489
17.5	1501.893	1504.356	1511.814	1508.783	1502.801
18.0	1496.252	1498.689	1505.852	1502.701	1496.766
18.5	1490.424	1492.867	1499.830	1496.472	1490.577
19.0	1484.342	1486.879	1493.535	1489.963	1484.075
19.5	1478.340	1480.697	1487.132	1483.467	1477.539
20.0	1472.138	1474.388	1480.683	1476.571	1470.796
20.5	1465.722	1467.812	1473.840	1469.521	1463.780
21.0	1458.980	1461.116	1466.991	1462.451	1456.730
21.5	1452.377	1454.340	1459.948	1455.194	1449.633
22.0	1445.327	1447.217	1452.617	1447.624	1441.929
22.5	1438.317	1439.986	1445.234	1439.906	1434.232
23.0	1430.954	1432.690	1437.703	1432.122	1426.441
23.5	1423.430	1425.092	1429.952	1423.891	1418.483
24.0	1416.013	1417.435	1422.008	1415.826	1410.345
24.5	1408.229	1409.544	1413.943	1407.421	1401.960
25.0	1400.231	1401.439	1405.538	1398.749	1393.381
25.5	1392.246	1393.288	1397.167	1390.043	1384.709
26.0	1384.028	1384.869	1388.601	1381.244	1375.937
26.5	1375.363	1376.197	1379.789	1372.078	1366.878

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27.0	1366.824	1367.525	1370.776	1362.805	1357.658
27.5	1358.065	1358.659	1361.750	1353.459	1348.278
28.0	1348.899	1349.487	1352.391	1343.859	1338.745
28.5	1339.973	1340.300	1342.964	1334.105	1329.138
29.0	1330.620	1330.867	1333.458	1324.205	1319.344
29.5	1321.074	1321.174	1323.617	1314.191	1309.224
30.0	1311.587	1311.580	1313.763	1304.056	1299.163
30.5	1301.847	1301.713	1303.669	1293.642	1288.942
31.0	1291.686	1291.512	1293.355	1283.034	1278.387
31.5	1281.605	1281.318	1283.020	1272.472	1267.839
32.0	1271.377	1270.937	1272.579	1261.737	1257.184
32.5	1260.783	1260.349	1261.784	1250.762	1246.236
33.0	1250.221	1249.660	1251.029	1239.787	1235.274
33.5	1239.453	1238.932	1240.100	1228.631	1224.165
34.0	1228.404	1227.750	1228.945	1217.202	1212.969
34.5	1217.355	1216.654	1217.816	1205.906	1201.633
35.0	1206.106	1205.398	1206.520	1194.403	1190.204
35.5	1194.503	1193.816	1194.904	1182.627	1178.441
36.0	1182.874	1182.186	1183.294	1170.810	1166.811
36.5	1171.318	1170.657	1171.765	1159.080	1155.222
37.0	1159.201	1158.660	1159.841	1146.943	1143.165
37.5	1147.304	1146.696	1147.918	1134.947	1131.415
38.0	1135.107	1134.660	1135.935	1122.823	1119.432
38.5	1122.743	1122.322	1123.718	1110.426	1107.228
39.0	1110.326	1110.059	1111.607	1098.249	1095.144
39.5	1097.715	1097.648	1099.310	1085.905	1082.881
40.0	1084.743	1085.044	1086.666	1073.200	1070.490
40.5	1072.059	1072.519	1074.295	1060.923	1058.286
41.0	1059.134	1059.888	1061.871	1048.412	1046.002
41.5	1045.809	1047.044	1049.080	1035.748	1033.471
42.0	1032.784	1034.279	1036.489	1023.130	1021.168
42.5	1019.699	1021.435	1023.778	1010.546	1008.764
43.0	1006.240	1008.323	1010.726	997.815	996.179
43.5	992.962	995.372	998.042	985.111	983.929
44.0	979.529	982.367	985.030	972.439	971.491
44.5	965.897	969.095	971.872	959.528	958.694
45.0	952.452	955.970	958.987	946.944	946.390
45.5	939.033	942.805	946.056	934.326	934.126
46.0	925.113	929.386	932.857	921.528	921.542
46.5	911.468	916.161	919.859	908.924	909.224
47.0	897.855	902.929	906.734	896.346	896.994
47.5	884.016	889.383	893.576	883.595	884.670
48.0	870.250	876.172	880.484	871.058	872.400
48.5	856.598	862.853	867.299	858.534	860.223
49.0	842.665	849.394	854.074	845.903	847.919
49.5	828.946	836.149	841.016	833.599	836.015
50.0	815.293	822.817	827.984	821.275	824.166
50.5	801.213	809.305	814.772	808.737	812.035
51.0	787.628	796.126	801.774	796.587	800.359
51.5	774.029	782.868	788.816	784.483	788.616
52.0	760.143	769.522	775.718	772.333	776.799
52.5	746.544	756.237	762.793	760.310	765.263
53.0	732.891	743.059	749.902	748.313	753.754
53.5	719.059	729.807	736.850	736.336	742.258
54.0	705.620	716.722	724.179	724.660	731.009
54.5	692.081	703.630	711.441	713.017	719.793

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55.0	678.375	690.358	698.583	701.274	708.537
55.5	665.056	677.507	686.099	689.824	697.589
56.0	651.751	664.636	673.588	678.535	686.760
56.5	638.286	651.558	660.937	667.119	675.758
57.0	624.954	638.766	648.587	655.924	665.123
57.5	611.729	625.962	636.290	644.828	654.408
58.0	598.397	613.064	623.919	633.726	643.760
58.5	585.325	600.486	611.902	622.851	633.406
59.0	572.293	587.902	599.845	612.062	623.018
59.5	559.289	575.204	587.782	601.327	612.643
60.0	546.464	562.887	575.959	590.786	602.502
60.5	533.760	550.536	564.269	580.311	592.502
61.0	520.768	538.052	552.392	569.710	582.267
61.5	508.184	525.848	540.903	559.482	572.387
62.0	495.800	513.691	529.420	549.275	562.546
62.5	483.122	501.494	518.024	539.114	552.673
63.0	470.885	489.624	506.822	529.093	542.992
63.5	458.661	477.728	495.733	519.166	533.352
64.0	446.351	465.818	484.571	509.245	523.645
64.5	434.434	454.182	473.789	499.518	514.306
65.0	422.511	442.519	463.007	489.825	504.872
65.5	410.561	430.742	452.259	480.118	495.306
66.0	398.904	419.360	441.704	470.671	486.093
66.5	387.335	408.091	431.343	461.278	476.880
67.0	375.699	396.668	420.955	451.825	467.547
67.5	364.363	385.639	410.741	442.565	458.474
68.0	353.100	374.590	400.667	433.433	449.448
68.5	341.865	363.515	390.599	424.266	440.409
69.0	330.956	352.807	380.846	415.234	431.470
69.5	320.081	342.065	371.166	406.328	422.551
70.0	309.105	331.403	361.452	397.295	413.558
70.5	298.491	320.955	351.992	388.543	404.853
71.0	288.136	310.741	342.706	379.844	396.060
71.5	277.595	300.447	333.339	371.072	387.428
72.0	267.414	290.453	324.253	362.527	378.783
72.5	257.440	280.606	315.307	354.068	370.284
73.0	247.419	270.992	306.355	345.536	361.752
73.5	237.752	261.325	297.656	337.258	353.334
74.0	228.025	251.852	288.964	328.886	344.916
74.5	218.579	242.526	280.445	320.682	336.584
75.0	209.326	233.520	272.134	312.604	328.432
75.5	200.247	224.581	263.902	304.639	320.294
76.0	191.167	215.702	255.717	296.581	312.130
76.5	182.348	207.116	247.753	288.804	304.245
77.0	173.803	198.711	239.955	281.113	296.321
77.5	165.218	190.386	232.165	273.382	288.463
78.0	156.933	182.248	224.547	265.785	280.739
78.5	148.675	174.277	217.090	258.395	273.042
79.0	140.590	166.373	209.633	250.917	265.471
79.5	132.866	158.815	202.503	243.667	258.014
80.0	125.135	151.325	195.407	236.517	250.724
80.5	117.484	143.975	188.397	229.327	243.367
81.0	110.214	136.805	181.647	222.444	236.310
81.5	103.017	129.828	174.951	215.621	229.234
82.0	95.887	122.898	168.335	208.779	222.244
82.5	88.971	116.189	161.893	202.143	215.374

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CANDELA TABULATION - (Cont.)

83.0	82.255	109.660	155.611	195.580	208.678
83.5	75.606	103.178	149.295	189.111	202.009
84.0	69.070	96.915	143.287	182.782	195.560
84.5	62.728	90.767	137.279	176.600	189.164
85.0	56.379	84.652	131.357	170.385	182.762
85.5	50.384	78.810	125.589	164.437	176.667
86.0	44.302	72.989	119.934	158.462	170.538
86.5	38.300	67.194	114.226	152.547	164.443
87.0	32.445	61.539	108.672	146.792	158.682
87.5	26.597	55.972	103.311	141.344	153.181
88.0	20.822	50.377	97.950	136.337	148.127
88.5	15.068	44.916	93.083	132.118	143.868
89.0	9.306	39.716	89.198	128.446	140.223
89.5	0.000	35.450	86.107	125.228	136.911
90.0	0.000	32.939	83.590	122.411	133.974
90.5	0.000	31.604	81.694	120.115	131.531
91.0	0.000	31.444	80.586	118.372	129.675
91.5	0.000	31.437	80.205	117.377	128.440
92.0	0.000	31.324	79.985	116.737	127.565
92.5	0.000	31.190	79.718	116.149	126.751
93.0	0.000	31.184	79.451	115.575	126.070
93.5	0.000	31.103	79.217	115.054	125.402
94.0	0.000	31.023	78.944	114.500	124.768
94.5	0.000	30.923	78.757	113.993	124.167
95.0	0.000	30.843	78.436	113.485	123.506
95.5	0.000	30.730	78.256	112.978	122.898
96.0	0.000	30.696	77.976	112.504	122.371
96.5	0.000	30.583	77.689	111.990	121.810
97.0	0.000	30.509	77.428	111.643	121.336
97.5	0.000	30.389	77.168	111.149	120.829
98.0	0.000	30.256	76.914	110.715	120.335
98.5	0.000	30.209	76.580	110.227	119.814
99.0	0.000	30.115	76.347	109.800	119.380
99.5	0.000	30.069	75.986	109.420	118.913
100.0	0.000	29.995	75.692	108.932	118.446
100.5	0.000	29.888	75.419	108.545	118.005
101.0	0.000	29.728	75.112	108.124	117.531
101.5	0.000	29.668	74.805	107.684	117.110
102.0	0.000	29.561	74.477	107.237	116.676
102.5	0.000	29.434	74.164	106.823	116.289
103.0	0.000	29.381	73.843	106.329	115.815
103.5	0.000	29.294	73.469	105.888	115.341
104.0	0.000	29.141	73.156	105.421	114.894
104.5	0.000	29.014	72.775	104.933	114.387
105.0	0.000	28.907	72.461	104.413	113.966
105.5	0.000	28.780	72.054	103.952	113.472
106.0	0.000	28.647	71.633	103.405	112.898
106.5	0.000	28.533	71.306	102.957	112.437
107.0	0.000	28.413	70.879	102.330	111.896
107.5	0.000	28.293	70.479	101.742	111.276
108.0	0.000	28.133	70.085	101.235	110.695
108.5	0.000	28.019	69.637	100.614	110.107
109.0	0.000	27.872	69.177	100.013	109.553
109.5	0.000	27.692	68.703	99.359	108.899
110.0	0.000	27.492	68.269	98.698	108.198
110.5	0.000	27.345	67.788	98.077	107.544

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CANDELA TABULATION - (Cont.)

111.0	0.000	27.178	67.307	97.423	106.783
111.5	0.000	27.018	66.907	96.762	106.142
112.0	0.000	26.751	66.313	96.008	105.394
112.5	0.000	26.544	65.845	95.300	104.666
113.0	0.000	26.384	65.291	94.572	103.879
113.5	0.000	26.217	64.797	93.838	103.064
114.0	0.000	25.996	64.223	93.097	102.256
114.5	0.000	25.809	63.649	92.282	101.455
115.0	0.000	25.542	63.128	91.515	100.634
115.5	0.000	25.309	62.561	90.687	99.800
116.0	0.000	25.175	61.960	89.886	98.918
116.5	0.000	24.935	61.379	89.004	98.050
117.0	0.000	24.701	60.792	88.163	97.129
117.5	0.000	24.448	60.231	87.375	96.241
118.0	0.000	24.254	59.583	86.521	95.267
118.5	0.000	24.000	58.909	85.680	94.339
119.0	0.000	23.733	58.328	84.799	93.297
119.5	0.000	23.540	57.741	83.924	92.356
120.0	0.000	23.286	57.073	82.996	91.348
120.5	0.000	23.119	56.472	82.108	90.380
121.0	0.000	22.905	55.858	81.180	89.291
121.5	0.000	22.692	55.311	80.179	88.310
122.0	0.000	22.465	54.696	79.277	87.269
122.5	0.000	22.244	54.002	78.276	86.261
123.0	0.000	22.031	53.361	77.368	85.212
123.5	0.000	21.824	52.707	76.413	84.184
124.0	0.000	21.630	52.053	75.466	83.170
124.5	0.000	21.437	51.419	74.518	82.088
125.0	0.000	21.236	50.758	73.596	81.060
125.5	0.000	21.009	50.150	72.655	79.985
126.0	0.000	20.862	49.489	71.694	78.957
126.5	0.000	20.682	48.875	70.759	77.936
127.0	0.000	20.409	48.227	69.771	76.827
127.5	0.000	20.268	47.573	68.843	75.819
128.0	0.000	20.035	46.966	67.882	74.771
128.5	0.000	19.814	46.331	66.954	73.723
129.0	0.000	19.627	45.711	65.986	72.655
129.5	0.000	19.441	45.096	65.118	71.607
130.0	0.000	19.234	44.402	64.143	70.499
130.5	0.000	18.980	43.841	63.235	69.477
131.0	0.000	18.766	43.174	62.267	68.429
131.5	0.000	18.586	42.546	61.359	67.468
132.0	0.000	18.386	41.965	60.418	66.373
132.5	0.000	18.139	41.318	59.503	65.338
133.0	0.000	17.932	40.704	58.582	64.363
133.5	0.000	17.671	40.116	57.594	63.335
134.0	0.000	17.484	39.489	56.733	62.260
134.5	0.000	17.257	38.868	55.765	61.186
135.0	0.000	17.037	38.294	54.850	60.157
135.5	0.000	16.750	37.646	53.962	59.149
136.0	0.000	16.603	37.005	53.054	58.101
136.5	0.000	16.383	36.424	52.146	57.133
137.0	0.000	16.109	35.783	51.198	56.092
137.5	0.000	15.855	35.196	50.310	55.084
138.0	0.000	15.602	34.608	49.356	54.056
138.5	0.000	15.375	33.994	48.501	53.128

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CANDELA TABULATION - (Cont.)

139.0	0.000	15.101	33.373	47.587	52.039
139.5	0.000	14.861	32.839	46.719	51.118
140.0	0.000	14.614	32.185	45.864	50.123
140.5	0.000	14.360	31.638	44.990	49.142
141.0	0.000	14.053	31.050	44.075	48.201
141.5	0.000	13.846	30.476	43.260	47.273
142.0	0.000	13.572	29.882	42.406	46.325
142.5	0.000	13.285	29.268	41.565	45.417
143.0	0.000	12.985	28.734	40.757	44.449
143.5	0.000	12.664	28.146	39.902	43.521
144.0	0.000	12.444	27.572	39.101	42.666
144.5	0.000	12.150	27.038	38.300	41.758
145.0	0.000	11.863	26.484	37.446	40.884
145.5	0.000	11.556	25.970	36.671	39.949
146.0	0.000	11.289	25.416	35.877	39.135
146.5	0.000	11.029	24.828	35.102	38.227
147.0	0.000	10.702	24.314	34.315	37.379
147.5	0.000	10.435	23.760	33.493	36.511
148.0	0.000	10.181	23.239	32.739	35.697
148.5	0.000	9.847	22.738	31.991	34.895
149.0	0.000	9.607	22.184	31.264	34.048
149.5	0.000	9.346	21.650	30.529	33.160
150.0	0.000	9.033	21.136	29.782	32.345
150.5	0.000	8.752	20.609	29.074	31.577
151.0	0.000	8.505	20.162	28.293	30.790
151.5	0.000	8.232	19.627	27.599	30.042
152.0	0.000	7.958	19.127	26.891	29.281
152.5	0.000	7.731	18.639	26.210	28.460
153.0	0.000	7.484	18.172	25.482	27.719
153.5	0.000	7.277	17.658	24.835	27.071
154.0	0.000	6.976	17.164	24.167	26.243
154.5	0.000	6.723	16.670	23.473	25.569
155.0	0.000	6.522	16.169	22.859	24.815
155.5	0.000	6.235	15.722	22.171	24.114
156.0	0.000	6.028	15.228	21.557	23.413
156.5	0.000	5.795	14.754	20.916	22.725
157.0	0.000	5.588	14.213	20.302	22.084
157.5	0.000	5.354	13.739	19.734	21.430
158.0	0.000	5.207	13.259	19.127	20.789
158.5	0.000	4.927	12.724	18.559	20.155
159.0	0.000	4.760	12.244	17.972	19.507
159.5	0.000	4.586	11.803	17.444	18.886
160.0	0.000	4.333	11.322	16.810	18.272
160.5	0.000	4.146	10.869	16.243	17.678
161.0	0.000	0.000	10.415	15.682	17.051
161.5	0.000	0.000	9.934	15.094	16.436
162.0	0.000	0.000	9.567	14.567	15.862
162.5	0.000	0.000	9.113	14.033	15.241
163.0	0.000	0.000	8.712	13.472	14.620
163.5	0.000	0.000	8.298	12.925	14.053
164.0	0.000	0.000	7.811	12.417	13.506
164.5	0.000	0.000	7.484	11.870	12.925
165.0	0.000	0.000	7.037	11.356	12.357
165.5	0.000	0.000	6.643	10.848	11.756
166.0	0.000	0.000	6.235	10.274	11.162
166.5	0.000	0.000	5.915	9.720	10.662

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CANDELA TABULATION - (Cont.)

167.0	0.000	0.000	5.494	9.233	10.054
167.5	0.000	0.000	5.107	8.692	9.553
168.0	0.000	0.000	4.747	8.171	8.946
168.5	0.000	0.000	4.426	7.624	8.438
169.0	0.000	0.000	4.026	7.130	7.904
169.5	0.000	0.000	0.000	6.663	7.364
170.0	0.000	0.000	0.000	6.149	6.883
170.5	0.000	0.000	0.000	5.621	6.269
171.0	0.000	0.000	0.000	5.094	5.748
171.5	0.000	0.000	0.000	4.633	5.214
172.0	0.000	0.000	0.000	4.119	4.707
172.5	0.000	0.000	0.000	0.000	4.213
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	584.19	N.A.	12.90
0-30	1228.79	N.A.	27.20
0-40	1978.96	N.A.	43.70
0-60	3336.95	N.A.	73.70
0-80	4087.34	N.A.	90.30
0-90	4227.61	N.A.	93.40
10-90	4075.81	N.A.	90.10
20-40	1394.78	N.A.	30.80
20-50	2129.53	N.A.	47.10
40-70	1819.41	N.A.	40.20
60-80	750.39	N.A.	16.60
70-80	288.97	N.A.	6.40
80-90	140.27	N.A.	3.10
90-110	147.22	N.A.	3.30
90-120	204.35	N.A.	4.50
90-130	246.20	N.A.	5.40
90-150	288.78	N.A.	6.40
90-180	297.58	N.A.	6.60
110-180	150.36	N.A.	3.30
0-180	4525.19	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	151.80
10-20	432.39
20-30	644.60
30-40	750.18
40-50	734.75
50-60	623.23
60-70	461.42
70-80	288.97
80-90	140.27
90-100	77.83
100-110	69.38
110-120	57.13
120-130	41.85
130-140	27.29
140-150	15.29
150-160	6.87
160-170	1.86
170-180	0.08

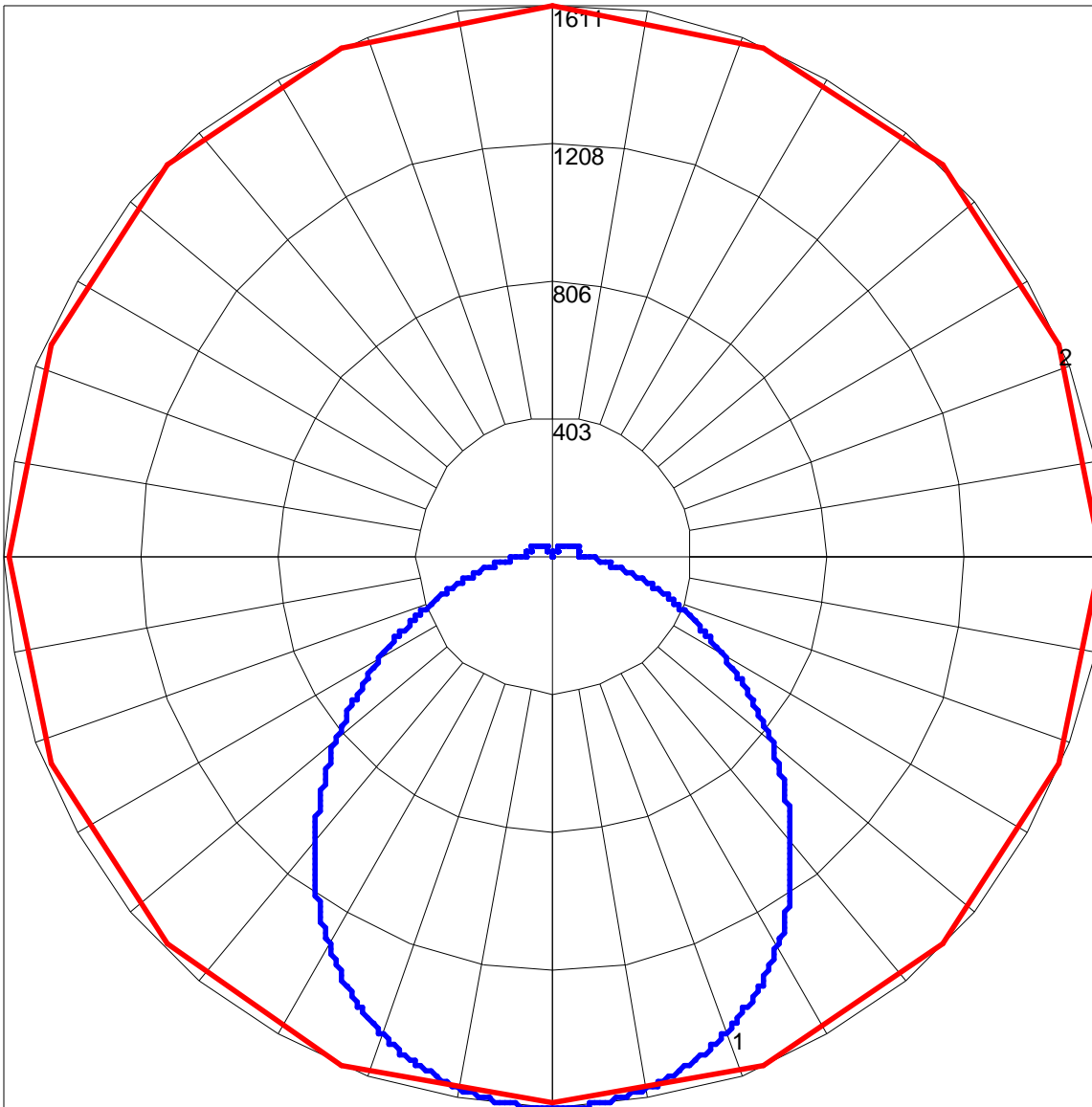
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	64	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 = 1611.266 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.)