



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 44-48LED24DMVFR30.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] 44-48LED24DMVFR30
 [LUMINAIRE] Catalog Number: 44-48LED24DMVFR30
 [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 M10CC830D32N2S boards with 32 LED each. One Universal Lighting
 [MORE] Technologies Everline D10CC55UNVTZ-C LED driver set at 417mA.
 [MORE] 120.0Vac, 60.0Hz, 0.20A, 24.0W, 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	3047
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	127
Total Luminaire Watts	24
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	6392	5616	5316
55	5565	4749	4556
65	4638	3891	3935
75	3638	3119	3380
85	2538	2484	2896

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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	1081.353	1081.353	1081.353	1081.353	1081.353
0.5	1076.503	1078.036	1084.877	1084.509	1079.025
1.0	1076.310	1077.874	1084.729	1084.302	1078.930
1.5	1076.143	1077.631	1084.410	1084.046	1078.746
2.0	1075.815	1077.312	1084.055	1083.623	1078.386
2.5	1075.267	1076.836	1083.605	1083.156	1077.977
3.0	1074.692	1076.229	1082.980	1082.603	1077.402
3.5	1074.008	1075.541	1082.293	1081.960	1076.719
4.0	1073.159	1074.732	1081.533	1081.155	1076.004
4.5	1072.255	1073.900	1080.607	1080.229	1075.159
5.0	1071.226	1072.844	1079.564	1079.227	1074.193
5.5	1070.134	1071.711	1078.404	1078.139	1073.123
6.0	1068.853	1070.525	1077.204	1076.894	1071.923
6.5	1067.571	1069.212	1075.820	1075.550	1070.700
7.0	1066.079	1067.801	1074.368	1074.094	1069.226
7.5	1064.474	1066.286	1072.849	1072.502	1067.702
8.0	1062.919	1064.609	1071.149	1070.767	1065.967
8.5	1061.094	1062.843	1069.320	1068.924	1064.146
9.0	1059.269	1061.031	1067.419	1067.028	1062.357
9.5	1057.309	1059.049	1065.423	1065.032	1060.335
10.0	1055.269	1056.945	1063.279	1062.811	1058.231
10.5	1053.044	1054.774	1061.067	1060.483	1055.965
11.0	1050.850	1052.527	1058.721	1058.168	1053.588
11.5	1048.355	1050.099	1056.208	1055.601	1051.061
12.0	1045.919	1047.591	1053.650	1052.909	1048.459
12.5	1043.321	1045.020	1051.007	1050.203	1045.780
13.0	1040.543	1042.269	1048.171	1047.330	1042.952
13.5	1037.761	1039.455	1045.335	1044.350	1040.026
14.0	1034.821	1036.516	1042.233	1041.199	1036.857
14.5	1031.791	1033.409	1039.096	1037.878	1033.567
15.0	1028.609	1030.357	1035.904	1034.533	1030.303
15.5	1025.395	1027.112	1032.569	1031.077	1026.896
16.0	1021.965	1023.736	1028.991	1027.346	1023.318
16.5	1018.477	1020.194	1025.417	1023.723	1019.614
17.0	1014.904	1016.607	1021.682	1019.848	1015.677
17.5	1011.236	1012.894	1017.915	1015.874	1011.847
18.0	1007.437	1009.078	1013.901	1011.780	1007.783
18.5	1003.513	1005.158	1009.847	1007.586	1003.617
19.0	999.418	1001.126	1005.608	1003.203	999.238
19.5	995.377	996.964	1001.297	998.829	994.838
20.0	991.201	992.716	996.955	994.186	990.298
20.5	986.882	988.289	992.348	989.439	985.574
21.0	982.342	983.780	987.736	984.679	980.827
21.5	977.896	979.218	982.994	979.793	976.049
22.0	973.150	974.422	978.058	974.696	970.862
22.5	968.430	969.554	973.087	969.500	965.679
23.0	963.472	964.640	968.016	964.258	960.433
23.5	958.406	959.525	962.798	958.716	955.075
24.0	953.412	954.369	957.448	953.286	949.596
24.5	948.171	949.056	952.019	947.627	943.950
25.0	942.786	943.599	946.359	941.788	938.174
25.5	937.410	938.111	940.723	935.926	932.335
26.0	931.876	932.443	934.955	930.002	926.428
26.5	926.042	926.604	929.022	923.830	920.329

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CANDELA TABULATION - (Cont.)

27.0	920.293	920.765	922.954	917.587	914.121
27.5	914.395	914.795	916.877	911.294	907.806
28.0	908.224	908.619	910.575	904.830	901.387
28.5	902.214	902.434	904.228	898.263	894.919
29.0	895.916	896.083	897.827	891.597	888.324
29.5	889.489	889.556	891.201	884.854	881.510
30.0	883.101	883.097	884.567	878.031	874.736
30.5	876.543	876.453	877.770	871.019	867.854
31.0	869.702	869.585	870.825	863.876	860.748
31.5	862.914	862.721	863.867	856.765	853.645
32.0	856.028	855.731	856.837	849.537	846.471
32.5	848.894	848.602	849.568	842.147	839.100
33.0	841.783	841.406	842.327	834.757	831.719
33.5	834.533	834.182	834.969	827.246	824.239
34.0	827.093	826.653	827.458	819.551	816.701
34.5	819.654	819.182	819.964	811.945	809.069
35.0	812.080	811.604	812.359	804.200	801.373
35.5	804.268	803.805	804.538	796.271	793.453
36.0	796.438	795.975	796.721	788.315	785.623
36.5	788.657	788.212	788.958	780.417	777.819
37.0	780.498	780.134	780.930	772.245	769.701
37.5	772.488	772.079	772.902	764.168	761.790
38.0	764.276	763.975	764.833	756.005	753.722
38.5	755.951	755.668	756.607	747.658	745.505
39.0	747.590	747.411	748.453	739.459	737.369
39.5	739.099	739.054	740.174	731.148	729.111
40.0	730.366	730.568	731.660	722.594	720.769
40.5	721.825	722.135	723.331	714.327	712.552
41.0	713.123	713.631	714.966	705.904	704.281
41.5	704.151	704.982	706.353	697.377	695.844
42.0	695.381	696.388	697.876	688.881	687.560
42.5	686.571	687.739	689.317	680.408	679.208
43.0	677.509	678.911	680.530	671.836	670.735
43.5	668.568	670.191	671.989	663.282	662.487
44.0	659.524	661.435	663.228	654.751	654.112
44.5	650.346	652.499	654.369	646.057	645.495
45.0	641.293	643.662	645.693	637.584	637.211
45.5	632.258	634.797	636.986	629.089	628.954
46.0	622.886	625.762	628.100	620.472	620.481
46.5	613.698	616.858	619.348	611.985	612.188
47.0	604.533	607.949	610.511	603.517	603.953
47.5	595.214	598.828	601.651	594.931	595.655
48.0	585.946	589.933	592.837	586.490	587.393
48.5	576.753	580.965	583.959	578.057	579.194
49.0	567.372	571.903	575.054	569.552	570.910
49.5	558.135	562.985	566.262	561.268	562.895
50.0	548.943	554.009	557.488	552.970	554.917
50.5	539.463	544.911	548.592	544.529	546.749
51.0	530.316	536.038	539.841	536.348	538.888
51.5	521.159	527.111	531.116	528.198	530.981
52.0	511.810	518.125	522.297	520.018	523.025
52.5	502.653	509.180	513.594	511.922	515.257
53.0	493.461	500.307	504.914	503.845	507.508
53.5	484.147	491.384	496.127	495.781	499.768
54.0	475.099	482.574	487.595	487.919	492.194
54.5	465.983	473.760	479.019	480.079	484.642

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55.0	456.755	464.823	470.361	472.173	477.063
55.5	447.787	456.171	461.956	464.464	469.692
56.0	438.829	447.504	453.532	456.863	462.401
56.5	429.762	438.699	445.014	449.176	454.993
57.0	420.786	430.086	436.698	441.638	447.832
57.5	411.881	421.465	428.418	434.168	440.618
58.0	402.905	412.780	420.089	426.692	433.448
58.5	394.104	404.312	411.998	419.370	426.477
59.0	385.329	395.839	403.880	412.106	419.482
59.5	376.573	387.289	395.758	404.878	412.497
60.0	367.938	378.996	387.797	397.781	405.669
60.5	359.384	370.680	379.926	390.728	398.936
61.0	350.637	362.275	371.930	383.590	392.045
61.5	342.164	354.058	364.194	376.703	385.392
62.0	333.826	345.872	356.462	369.831	378.767
62.5	325.290	337.660	348.790	362.989	372.119
63.0	317.050	329.668	341.247	356.242	365.601
63.5	308.820	321.658	333.781	349.558	359.110
64.0	300.531	313.639	326.265	342.879	352.574
64.5	292.508	305.804	319.006	336.329	346.286
65.0	284.480	297.951	311.746	329.803	339.934
65.5	276.434	290.022	304.509	323.267	333.493
66.0	268.585	282.358	297.403	316.906	327.290
66.5	260.795	274.770	290.426	310.582	321.087
67.0	252.961	267.079	283.432	304.217	314.803
67.5	245.328	259.654	276.555	297.983	308.694
68.0	237.745	252.214	269.772	291.833	302.617
68.5	230.180	244.757	262.993	285.662	296.531
69.0	222.835	237.547	256.426	279.580	290.512
69.5	215.513	230.315	249.909	273.584	284.507
70.0	208.123	223.136	243.368	267.502	278.452
70.5	200.976	216.102	236.999	261.609	272.590
71.0	194.004	209.224	230.746	255.752	266.670
71.5	186.907	202.293	224.440	249.846	260.858
72.0	180.052	195.564	218.322	244.092	255.037
72.5	173.336	188.934	212.299	238.397	249.315
73.0	166.589	182.461	206.271	232.652	243.571
73.5	160.080	175.952	200.414	227.078	237.902
74.0	153.531	169.574	194.562	221.442	232.234
74.5	147.171	163.294	188.826	215.917	226.624
75.0	140.941	157.231	183.230	210.478	221.136
75.5	134.828	151.212	177.687	205.116	215.657
76.0	128.714	145.233	172.176	199.690	210.159
76.5	122.776	139.453	166.814	194.454	204.851
77.0	117.023	133.794	161.564	189.275	199.515
77.5	111.242	128.188	156.318	184.070	194.224
78.0	105.664	122.709	151.189	178.955	189.024
78.5	100.104	117.342	146.168	173.979	183.841
79.0	94.660	112.020	141.147	168.945	178.744
79.5	89.459	106.932	136.347	164.063	173.723
80.0	84.254	101.888	131.569	159.249	168.814
80.5	79.103	96.939	126.849	154.408	163.861
81.0	74.208	92.112	122.304	149.773	159.110
81.5	69.362	87.414	117.796	145.180	154.345
82.0	64.562	82.748	113.341	140.572	149.639
82.5	59.905	78.231	109.004	136.104	145.013

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CANDELA TABULATION - (Cont.)

83.0	55.383	73.835	104.774	131.686	140.505
83.5	50.906	69.470	100.522	127.330	136.014
84.0	46.505	65.254	96.476	123.069	131.672
84.5	42.235	61.114	92.431	118.906	127.366
85.0	37.960	56.997	88.444	114.721	123.055
85.5	33.924	53.063	84.560	110.716	118.951
86.0	29.829	49.144	80.753	106.693	114.825
86.5	25.788	45.242	76.909	102.711	110.721
87.0	21.846	41.435	73.170	98.836	106.842
87.5	17.908	37.686	69.560	95.168	103.138
88.0	14.020	33.919	65.951	91.797	99.735
88.5	10.145	30.242	62.674	88.956	96.867
89.0	6.266	26.741	60.058	86.484	94.413
89.5	0.000	23.868	57.977	84.317	92.183
90.0	0.000	22.178	56.282	82.420	90.206
90.5	0.000	21.279	55.005	80.874	88.560
91.0	0.000	21.171	54.259	79.701	87.311
91.5	0.000	21.167	54.003	79.031	86.479
92.0	0.000	21.091	53.855	78.600	85.890
92.5	0.000	21.001	53.675	78.204	85.342
93.0	0.000	20.996	53.495	77.817	84.884
93.5	0.000	20.942	53.338	77.467	84.434
94.0	0.000	20.888	53.153	77.094	84.007
94.5	0.000	20.821	53.028	76.752	83.603
95.0	0.000	20.767	52.812	76.411	83.157
95.5	0.000	20.690	52.690	76.069	82.748
96.0	0.000	20.668	52.502	75.750	82.393
96.5	0.000	20.592	52.308	75.404	82.016
97.0	0.000	20.542	52.133	75.170	81.697
97.5	0.000	20.461	51.958	74.837	81.355
98.0	0.000	20.371	51.787	74.545	81.022
98.5	0.000	20.340	51.562	74.217	80.672
99.0	0.000	20.277	51.405	73.929	80.380
99.5	0.000	20.245	51.162	73.673	80.065
100.0	0.000	20.196	50.964	73.345	79.750
100.5	0.000	20.124	50.780	73.084	79.454
101.0	0.000	20.016	50.573	72.801	79.134
101.5	0.000	19.976	50.366	72.504	78.851
102.0	0.000	19.904	50.146	72.203	78.559
102.5	0.000	19.818	49.935	71.924	78.298
103.0	0.000	19.782	49.719	71.592	77.979
103.5	0.000	19.724	49.467	71.295	77.660
104.0	0.000	19.621	49.256	70.981	77.359
104.5	0.000	19.535	49.000	70.652	77.017
105.0	0.000	19.463	48.789	70.302	76.734
105.5	0.000	19.378	48.515	69.992	76.402
106.0	0.000	19.288	48.231	69.623	76.015
106.5	0.000	19.212	48.011	69.322	75.705
107.0	0.000	19.131	47.723	68.899	75.341
107.5	0.000	19.050	47.454	68.504	74.923
108.0	0.000	18.942	47.189	68.162	74.532
108.5	0.000	18.866	46.887	67.744	74.136
109.0	0.000	18.767	46.577	67.340	73.763
109.5	0.000	18.645	46.258	66.899	73.322
110.0	0.000	18.510	45.966	66.454	72.850
110.5	0.000	18.412	45.642	66.036	72.410

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111.0	0.000	18.299	45.319	65.596	71.898
111.5	0.000	18.191	45.049	65.151	71.466
112.0	0.000	18.011	44.649	64.643	70.963
112.5	0.000	17.872	44.334	64.166	70.473
113.0	0.000	17.764	43.961	63.676	69.942
113.5	0.000	17.652	43.628	63.182	69.394
114.0	0.000	17.504	43.242	62.683	68.850
114.5	0.000	17.378	42.855	62.134	68.311
115.0	0.000	17.198	42.505	61.617	67.758
115.5	0.000	17.041	42.123	61.060	67.196
116.0	0.000	16.951	41.718	60.521	66.602
116.5	0.000	16.789	41.327	59.927	66.018
117.0	0.000	16.631	40.931	59.361	65.398
117.5	0.000	16.461	40.554	58.831	64.800
118.0	0.000	16.330	40.118	58.255	64.144
118.5	0.000	16.160	39.664	57.689	63.519
119.0	0.000	15.980	39.273	57.095	62.818
119.5	0.000	15.849	38.877	56.507	62.184
120.0	0.000	15.679	38.428	55.882	61.505
120.5	0.000	15.566	38.023	55.284	60.853
121.0	0.000	15.422	37.610	54.659	60.121
121.5	0.000	15.279	37.241	53.985	59.460
122.0	0.000	15.126	36.828	53.378	58.759
122.5	0.000	14.977	36.360	52.704	58.080
123.0	0.000	14.833	35.929	52.093	57.374
123.5	0.000	14.694	35.488	51.450	56.682
124.0	0.000	14.564	35.048	50.811	55.999
124.5	0.000	14.433	34.620	50.173	55.271
125.0	0.000	14.299	34.175	49.553	54.578
125.5	0.000	14.146	33.766	48.919	53.855
126.0	0.000	14.047	33.321	48.272	53.162
126.5	0.000	13.926	32.908	47.643	52.475
127.0	0.000	13.741	32.472	46.977	51.728
127.5	0.000	13.647	32.031	46.352	51.050
128.0	0.000	13.489	31.622	45.705	50.344
128.5	0.000	13.341	31.195	45.080	49.638
129.0	0.000	13.215	30.777	44.429	48.919
129.5	0.000	13.089	30.364	43.844	48.213
130.0	0.000	12.950	29.896	43.188	47.467
130.5	0.000	12.779	29.519	42.577	46.779
131.0	0.000	12.635	29.069	41.925	46.074
131.5	0.000	12.514	28.647	41.314	45.426
132.0	0.000	12.379	28.256	40.680	44.689
132.5	0.000	12.213	27.820	40.064	43.993
133.0	0.000	12.074	27.406	39.444	43.336
133.5	0.000	11.898	27.010	38.778	42.644
134.0	0.000	11.772	26.588	38.199	41.920
134.5	0.000	11.620	26.170	37.547	41.197
135.0	0.000	11.471	25.783	36.931	40.504
135.5	0.000	11.278	25.347	36.333	39.826
136.0	0.000	11.179	24.916	35.722	39.120
136.5	0.000	11.031	24.525	35.110	38.468
137.0	0.000	10.846	24.093	34.472	37.767
137.5	0.000	10.676	23.698	33.874	37.088
138.0	0.000	10.505	23.302	33.232	36.396
138.5	0.000	10.352	22.889	32.656	35.771

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CANDELA TABULATION - (Cont.)

139.0	0.000	10.168	22.471	32.040	35.039
139.5	0.000	10.006	22.111	31.456	34.418
140.0	0.000	9.840	21.670	30.881	33.748
140.5	0.000	9.669	21.302	30.292	33.088
141.0	0.000	9.462	20.906	29.676	32.454
141.5	0.000	9.323	20.520	29.128	31.829
142.0	0.000	9.138	20.120	28.552	31.191
142.5	0.000	8.945	19.706	27.986	30.579
143.0	0.000	8.743	19.346	27.442	29.928
143.5	0.000	8.527	18.951	26.867	29.303
144.0	0.000	8.379	18.564	26.327	28.728
144.5	0.000	8.181	18.205	25.788	28.116
145.0	0.000	7.988	17.832	25.212	27.527
145.5	0.000	7.781	17.486	24.691	26.898
146.0	0.000	7.601	17.112	24.156	26.350
146.5	0.000	7.426	16.717	23.635	25.738
147.0	0.000	7.205	16.371	23.104	25.168
147.5	0.000	7.026	15.998	22.551	24.583
148.0	0.000	6.855	15.647	22.043	24.035
148.5	0.000	6.630	15.310	21.540	23.495
149.0	0.000	6.468	14.937	21.050	22.924
149.5	0.000	6.293	14.577	20.556	22.327
150.0	0.000	6.082	14.231	20.052	21.778
150.5	0.000	5.893	13.876	19.576	21.261
151.0	0.000	5.727	13.575	19.050	20.731
151.5	0.000	5.542	13.215	18.582	20.227
152.0	0.000	5.358	12.878	18.106	19.715
152.5	0.000	5.205	12.550	17.647	19.162
153.0	0.000	5.039	12.235	17.157	18.663
153.5	0.000	4.900	11.889	16.721	18.227
154.0	0.000	4.697	11.557	16.272	17.670
154.5	0.000	4.526	11.224	15.804	17.216
155.0	0.000	4.392	10.887	15.391	16.708
155.5	0.000	4.198	10.586	14.928	16.236
156.0	0.000	4.059	10.253	14.514	15.764
156.5	0.000	3.902	9.934	14.083	15.301
157.0	0.000	3.762	9.570	13.669	14.869
157.5	0.000	3.605	9.251	13.287	14.429
158.0	0.000	3.506	8.927	12.878	13.997
158.5	0.000	3.317	8.567	12.496	13.570
159.0	0.000	3.205	8.244	12.101	13.134
159.5	0.000	3.088	7.947	11.745	12.716
160.0	0.000	2.917	7.624	11.318	12.303
160.5	0.000	2.791	7.318	10.936	11.903
161.0	0.000	0.000	7.012	10.559	11.480
161.5	0.000	0.000	6.689	10.163	11.067
162.0	0.000	0.000	6.441	9.808	10.680
162.5	0.000	0.000	6.136	9.448	10.262
163.0	0.000	0.000	5.866	9.071	9.844
163.5	0.000	0.000	5.587	8.702	9.462
164.0	0.000	0.000	5.259	8.361	9.093
164.5	0.000	0.000	5.039	7.992	8.702
165.0	0.000	0.000	4.738	7.646	8.320
165.5	0.000	0.000	4.473	7.304	7.916
166.0	0.000	0.000	4.198	6.918	7.516
166.5	0.000	0.000	3.983	6.545	7.179

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CANDELA TABULATION - (Cont.)

167.0	0.000	0.000	3.699	6.217	6.769
167.5	0.000	0.000	3.439	5.852	6.432
168.0	0.000	0.000	3.196	5.502	6.023
168.5	0.000	0.000	2.980	5.133	5.682
169.0	0.000	0.000	2.710	4.801	5.322
169.5	0.000	0.000	0.000	4.486	4.958
170.0	0.000	0.000	0.000	4.140	4.634
170.5	0.000	0.000	0.000	3.785	4.221
171.0	0.000	0.000	0.000	3.430	3.870
171.5	0.000	0.000	0.000	3.120	3.511
172.0	0.000	0.000	0.000	2.773	3.169
172.5	0.000	0.000	0.000	0.000	2.836
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	393.34	N.A.	12.90
0-30	827.35	N.A.	27.20
0-40	1332.45	N.A.	43.70
0-60	2246.79	N.A.	73.70
0-80	2752.04	N.A.	90.30
0-90	2846.48	N.A.	93.40
10-90	2744.27	N.A.	90.10
20-40	939.11	N.A.	30.80
20-50	1433.83	N.A.	47.10
40-70	1225.02	N.A.	40.20
60-80	505.25	N.A.	16.60
70-80	194.57	N.A.	6.40
80-90	94.44	N.A.	3.10
90-110	99.12	N.A.	3.30
90-120	137.59	N.A.	4.50
90-130	165.77	N.A.	5.40
90-150	194.43	N.A.	6.40
90-180	200.36	N.A.	6.60
110-180	101.24	N.A.	3.30
0-180	3046.84	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	102.21
10-20	291.13
20-30	434.01
30-40	505.10
40-50	494.72
50-60	419.62
60-70	310.68
70-80	194.57
80-90	94.44
90-100	52.41
100-110	46.72
110-120	38.47
120-130	28.18
130-140	18.37
140-150	10.29
150-160	4.62
160-170	1.25
170-180	0.05

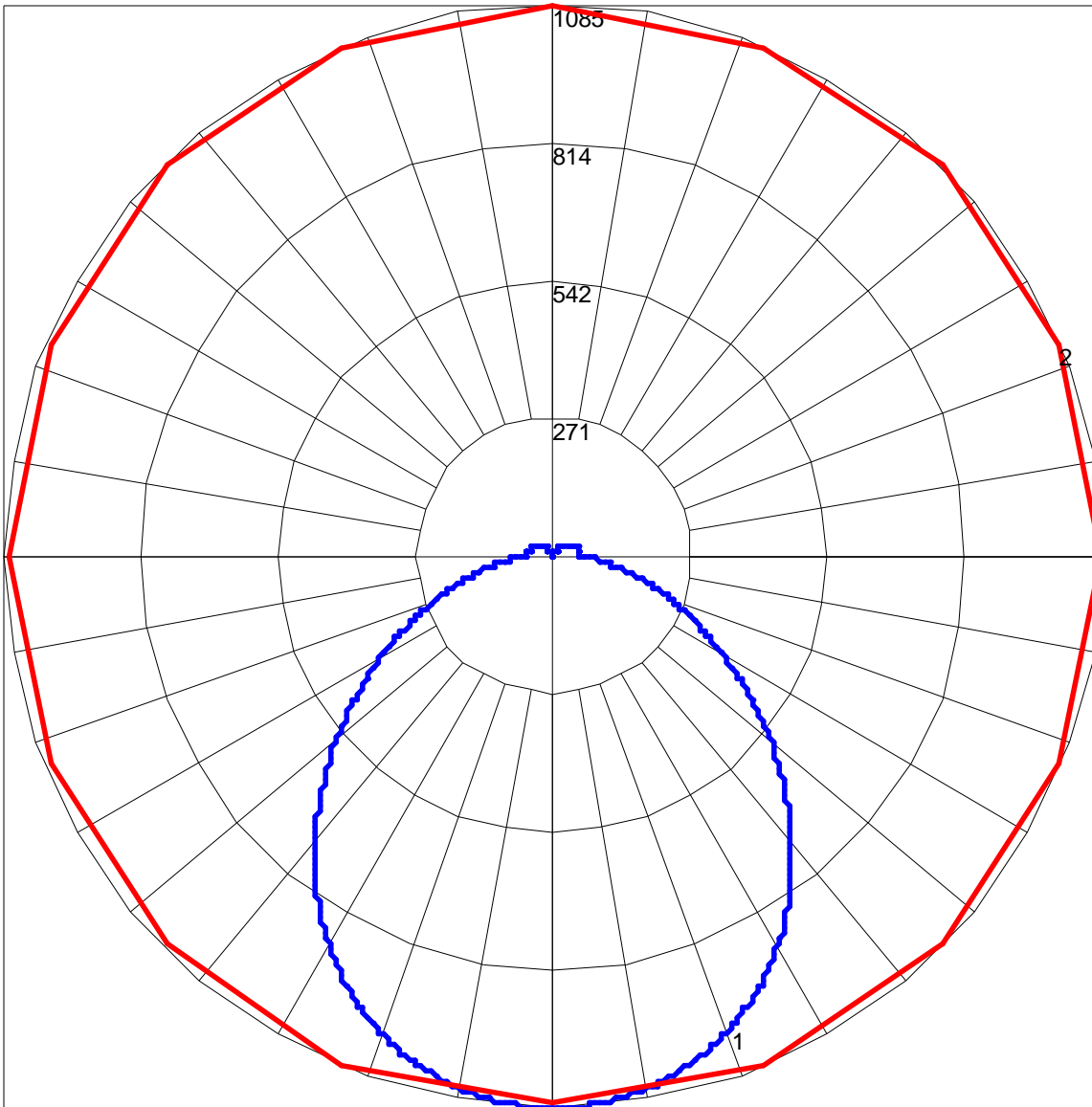
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	90	88	89	86	84	84	82	80	78
2	97	89	82	77	94	87	81	75	82	77	72	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	62	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 = 1084.877 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.)