



IES INDOOR REPORT

PHOTOMETRIC FILENAME : FHBC48-LED144DMV40.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] LLIA000738-004-R01
 [TESTLAB] LightLab International Allentown, LLC
 [MANUFAC] Mobern Lighting Co., 8200 Stayton Drive, Jessup, MD 20794, USA
 [LUMCAT] FHBC48-LED144DMV40
 [LUMINAIRE] Catalog Number: FHBC48-LED144DMV40
 [MORE] White formed steel housing, silver matte aluminum reflector, no enclosure.
 [MORE] 448 White LEDs, Eight boards with 56 LEDs each.
 [MORE] One Philips Advance Xitanium XI190C275V054BSG1 LED driver.
 [MORE] 120.0Vac, 60.0Hz, 1.613A, 193.1W, 0.998PF, 5.34%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 created by LightLab/LSA Report program version 3.808a.
 [DATE] This file extrapolated from LLIA738-004-R01 Tuesday, April 25, 2017
 [ISSUEDATE] Monday, March 13, 2017 2:10:35 PM

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	20685
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	144
Total Luminaire Watts	144
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.30
Spacing Criterion (90-270)	1.30
Spacing Criterion (Diagonal)	1.42
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	1.22 m
Luminous Width (90-270)	0.41 m
Luminous Height	0.01 m

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LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	14203	13824	13643
55	13980	13429	13214
65	12892	12444	12153
75	10207	9841	4737
85	4000	386	303

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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	7033.612	7033.612	7033.612	7033.612	7033.612
0.5	7061.963	7038.753	7027.551	7022.007	7028.216
1.0	7061.120	7037.841	7026.870	7021.505	7027.156
1.5	7059.527	7036.349	7025.881	7020.422	7025.448
2.0	7056.837	7034.571	7024.458	7018.799	7023.677
2.5	7053.999	7031.965	7022.641	7016.773	7021.744
3.0	7050.737	7028.989	7020.492	7014.253	7019.108
3.5	7047.103	7025.649	7017.995	7011.176	7015.529
4.0	7042.472	7022.046	7014.887	7007.619	7011.802
4.5	7037.215	7017.585	7011.284	7003.862	7007.666
5.0	7031.354	7012.343	7007.295	6999.301	7003.243
5.5	7024.837	7006.599	7002.463	6994.376	6998.226
6.0	7018.049	7000.669	6997.406	6988.964	6992.327
6.5	7010.310	6994.275	6992.165	6982.802	6986.103
7.0	7002.246	6987.448	6986.235	6976.416	6979.361
7.5	6993.811	6980.251	6979.702	6969.813	6972.357
8.0	6984.511	6972.674	6972.774	6962.646	6964.595
8.5	6974.560	6964.850	6965.167	6955.000	6956.206
9.0	6964.324	6956.469	6957.142	6946.735	6947.771
9.5	6953.237	6947.431	6948.707	6937.628	6938.486
10.0	6941.262	6937.991	6939.391	6927.995	6929.325
10.5	6929.402	6928.289	6929.796	6918.918	6923.727
11.0	6916.862	6917.874	6919.676	6910.623	6920.457
11.5	6903.688	6906.471	6908.813	6904.468	6915.493
12.0	6890.668	6894.611	6897.897	6900.201	6906.966
12.5	6876.651	6882.055	6886.485	6894.031	6894.943
13.0	6861.993	6869.059	6874.510	6883.942	6879.434
13.5	6847.581	6855.599	6862.178	6870.915	6863.013
14.0	6832.312	6841.806	6850.017	6855.769	6845.339
14.5	6816.270	6827.333	6838.861	6839.185	6827.411
15.0	6800.274	6812.644	6829.305	6821.581	6809.629
15.5	6784.169	6797.498	6819.965	6803.088	6791.182
16.0	6767.841	6781.363	6809.652	6784.440	6771.621
16.5	6751.350	6765.065	6797.204	6765.676	6752.494
17.0	6734.573	6748.196	6782.322	6746.703	6733.135
17.5	6717.108	6730.715	6765.436	6727.499	6713.745
18.0	6699.473	6712.933	6746.588	6707.985	6694.069
18.5	6682.101	6694.525	6726.285	6688.610	6673.627
19.0	6663.693	6675.375	6704.908	6667.813	6652.675
19.5	6644.975	6656.116	6683.446	6647.511	6631.461
20.0	6625.709	6636.239	6661.628	6626.667	6609.527
20.5	6605.174	6615.650	6638.891	6604.896	6586.874
21.0	6585.313	6594.590	6616.563	6583.333	6564.608
21.5	6564.840	6572.865	6593.299	6560.789	6541.337
22.0	6543.710	6550.437	6569.123	6537.425	6518.104
22.5	6522.426	6528.016	6545.326	6514.563	6494.037
23.0	6500.809	6505.294	6521.096	6491.122	6469.838
23.5	6478.018	6481.945	6496.140	6466.452	6444.866
24.0	6455.117	6458.202	6471.191	6441.758	6419.569
24.5	6431.552	6434.251	6445.701	6416.894	6393.476
25.0	6407.276	6410.214	6419.206	6391.071	6366.826
25.5	6383.464	6386.556	6392.911	6365.156	6339.233
26.0	6359.048	6363.417	6366.540	6338.754	6311.555
26.5	6333.628	6339.882	6339.171	6311.083	6282.493

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CANDELA TABULATION - (Cont.)

27.0	6307.890	6316.789	6311.563	6282.957	6254.142
27.5	6281.511	6293.672	6283.081	6254.258	6225.019
28.0	6253.965	6269.164	6253.276	6224.431	6195.578
28.5	6227.400	6243.666	6223.658	6195.052	6165.982
29.0	6199.830	6217.419	6193.235	6165.155	6136.147
29.5	6171.309	6189.594	6162.202	6134.037	6105.493
30.0	6142.580	6160.887	6131.539	6103.367	6074.622
30.5	6113.587	6130.990	6100.220	6072.233	6043.202
31.0	6083.667	6099.308	6068.058	6040.055	6010.769
31.5	6053.453	6067.300	6035.888	6007.877	5978.189
32.0	6022.629	6035.099	6002.836	5975.027	5945.207
32.5	5990.884	6001.824	5968.780	5941.141	5911.561
33.0	5959.448	5967.667	5935.172	5907.633	5877.736
33.5	5926.846	5932.837	5901.332	5873.762	5843.394
34.0	5893.230	5897.095	5866.170	5838.631	5808.000
34.5	5860.225	5862.011	5831.140	5803.895	5772.977
35.0	5826.207	5825.813	5795.529	5768.416	5737.189
35.5	5790.666	5788.880	5758.767	5731.823	5700.543
36.0	5754.669	5752.002	5721.989	5695.092	5663.827
36.5	5719.136	5715.093	5685.907	5658.685	5626.856
37.0	5683.070	5677.001	5647.831	5620.895	5589.166
37.5	5646.029	5639.195	5610.256	5583.073	5551.978
38.0	5608.416	5601.226	5572.172	5544.633	5514.172
38.5	5569.180	5561.704	5533.291	5504.778	5474.936
39.0	5530.423	5522.352	5494.581	5465.766	5435.467
39.5	5491.024	5482.319	5455.607	5425.347	5395.628
40.0	5450.930	5441.382	5415.320	5383.559	5354.915
40.5	5410.201	5401.457	5374.916	5342.382	5314.867
41.0	5369.419	5360.342	5334.272	5301.051	5274.038
41.5	5328.087	5318.307	5291.982	5258.405	5231.802
42.0	5286.617	5276.589	5249.715	5216.540	5190.315
42.5	5245.022	5233.734	5207.201	5174.142	5148.458
43.0	5201.425	5190.880	5163.990	5130.460	5105.372
43.5	5157.983	5147.770	5120.185	5086.770	5062.448
44.0	5114.595	5104.150	5076.333	5042.454	5018.619
44.5	5069.707	5059.015	5030.780	4996.987	4973.808
45.0	5025.469	5014.707	4986.116	4952.408	4929.322
45.5	4980.666	4970.399	4940.417	4906.832	4884.442
46.0	4934.170	4924.243	4893.758	4860.019	4838.735
46.5	4887.975	4878.806	4847.827	4813.770	4792.834
47.0	4841.850	4833.276	4801.122	4767.096	4746.315
47.5	4794.009	4786.355	4753.242	4719.046	4698.899
48.0	4747.583	4739.287	4705.563	4671.197	4651.714
48.5	4699.192	4691.391	4657.041	4622.560	4603.981
49.0	4650.130	4642.963	4607.352	4572.971	4554.864
49.5	4601.337	4594.797	4558.668	4523.522	4506.590
50.0	4551.633	4545.548	4508.778	4473.415	4457.179
50.5	4501.225	4494.916	4457.365	4422.311	4405.867
51.0	4451.930	4445.119	4406.965	4371.045	4355.381
51.5	4400.811	4394.038	4355.281	4319.593	4304.069
52.0	4348.988	4342.308	4302.600	4266.502	4250.537
52.5	4297.343	4290.833	4250.460	4214.076	4198.073
53.0	4244.646	4239.033	4197.686	4160.684	4144.611
53.5	4191.764	4185.710	4143.219	4106.349	4089.711
54.0	4138.797	4133.099	4089.115	4052.330	4035.684
54.5	4085.281	4079.080	4034.734	3997.013	3980.754

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55.0	4030.628	4023.825	3978.133	3940.497	3924.331
55.5	3976.385	3969.412	3923.132	3884.754	3869.361
56.0	3921.362	3913.932	3867.065	3828.571	3813.672
56.5	3862.210	3856.975	3809.521	3770.455	3756.221
57.0	3802.655	3798.867	3752.680	3712.995	3699.775
57.5	3739.684	3739.715	3695.461	3654.848	3642.695
58.0	3675.986	3677.949	3636.355	3595.897	3584.571
58.5	3613.177	3618.620	3578.772	3537.294	3526.980
59.0	3550.375	3559.568	3520.331	3478.018	3468.176
59.5	3483.507	3499.217	3460.368	3418.108	3407.516
60.0	3421.038	3437.436	3401.355	3359.149	3348.001
60.5	3358.546	3374.148	3341.816	3299.325	3287.295
61.0	3293.140	3306.383	3280.537	3238.611	3224.895
61.5	3227.060	3237.289	3219.661	3178.229	3163.122
62.0	3161.754	3169.261	3157.757	3117.337	3101.156
62.5	3096.594	3101.759	3093.432	3054.683	3037.674
63.0	3028.172	3037.659	3029.750	2992.956	2974.633
63.5	2961.807	2973.017	2964.536	2930.263	2910.672
64.0	2894.359	2905.508	2899.856	2866.279	2845.984
64.5	2826.300	2836.498	2836.227	2802.898	2781.737
65.0	2759.301	2768.586	2772.475	2738.241	2717.622
65.5	2690.492	2698.541	2706.512	2671.937	2652.787
66.0	2618.669	2629.322	2641.538	2606.716	2589.676
66.5	2550.208	2559.632	2576.116	2541.116	2526.024
67.0	2478.778	2491.334	2510.253	2474.820	2460.826
67.5	2411.083	2424.482	2445.232	2409.205	2397.337
68.0	2343.133	2356.817	2378.875	2343.976	2333.585
68.5	2267.961	2283.208	2312.092	2278.082	2270.010
69.0	2197.545	2213.525	2246.762	2213.317	2193.285
69.5	2129.904	2144.322	2180.041	2148.745	2071.517
70.0	2060.368	2075.947	2109.810	2083.895	1940.363
70.5	1986.403	2009.210	2039.602	2004.904	1819.206
71.0	1917.447	1938.330	1968.451	1885.401	1764.685
71.5	1849.984	1865.609	1898.405	1753.289	1712.746
72.0	1777.519	1798.602	1830.594	1655.936	1649.844
72.5	1706.932	1732.492	1762.327	1604.384	1526.530
73.0	1640.157	1659.438	1695.567	1551.463	1381.985
73.5	1566.431	1590.398	1629.487	1468.097	1275.487
74.0	1499.617	1521.721	1563.640	1323.552	1149.969
74.5	1430.198	1452.928	1496.981	1204.722	966.459
75.0	1360.090	1383.501	1403.192	1091.103	679.550
75.5	1294.011	1317.916	1284.254	950.579	409.164
76.0	1223.556	1248.613	1187.597	680.617	290.063
76.5	1157.731	1183.214	1134.097	415.681	273.093
77.0	1091.714	1118.549	1077.650	264.766	257.615
77.5	1023.207	1053.189	969.636	246.265	242.075
78.0	960.529	988.826	855.043	231.150	226.628
78.5	896.645	925.545	749.194	216.283	210.949
79.0	832.429	862.867	620.004	201.107	195.586
79.5	770.169	802.919	387.292	186.270	180.990
80.0	709.092	742.885	190.669	171.813	167.089
80.5	648.540	685.457	169.060	157.927	129.901
81.0	591.174	628.934	155.121	141.421	52.117
81.5	535.184	571.652	141.204	76.756	23.410
82.0	478.660	491.224	127.961	31.088	21.377
82.5	426.064	436.501	114.949	25.181	20.859

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CANDELA TABULATION - (Cont.)

83.0	375.370	382.328	102.772	24.539	20.349
83.5	326.168	307.652	57.745	23.905	19.839
84.0	280.414	243.977	27.245	23.256	19.328
84.5	236.354	131.873	23.132	22.583	18.725
85.0	193.638	64.270	22.390	21.686	17.844
85.5	154.734	54.908	21.570	20.673	16.978
86.0	118.923	46.225	20.658	19.784	16.259
86.5	85.106	29.170	19.676	19.089	15.640
87.0	55.372	18.107	18.741	18.362	14.952
87.5	33.245	16.885	17.929	17.171	13.452
88.0	17.774	15.803	16.939	15.207	11.172
88.5	14.705	14.728	15.115	12.424	8.211
89.0	12.130	13.669	12.788	9.525	5.219
89.5	6.092	12.285	10.553	6.920	0.000
90.0	0.000	11.094	8.984	5.335	0.000
90.5	0.000	9.494	8.126	4.770	0.000
91.0	0.000	7.523	7.461	4.469	0.000
91.5	0.000	5.713	6.703	4.244	0.000
92.0	0.000	4.105	5.969	3.943	0.000
92.5	0.000	0.000	5.234	3.587	0.000
93.0	0.000	0.000	4.531	3.247	0.000
93.5	0.000	0.000	3.850	0.000	0.000
94.0	0.000	0.000	3.294	0.000	0.000
94.5	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000
95.5	0.000	0.000	0.000	0.000	0.000
96.0	0.000	0.000	0.000	0.000	0.000
96.5	0.000	0.000	0.000	0.000	0.000
97.0	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000
98.0	0.000	0.000	0.000	0.000	0.000
98.5	0.000	0.000	0.000	0.000	0.000
99.0	0.000	0.000	0.000	0.000	0.000
99.5	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000
100.5	0.000	0.000	0.000	0.000	0.000
101.0	0.000	0.000	0.000	0.000	0.000
101.5	0.000	0.000	0.000	0.000	0.000
102.0	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000
103.0	0.000	0.000	0.000	0.000	0.000
103.5	0.000	0.000	0.000	0.000	0.000
104.0	0.000	0.000	0.000	0.000	0.000
104.5	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000
105.5	0.000	0.000	0.000	0.000	0.000
106.0	0.000	0.000	0.000	0.000	0.000
106.5	0.000	0.000	0.000	0.000	0.000
107.0	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000
108.0	0.000	0.000	0.000	0.000	0.000
108.5	0.000	0.000	0.000	0.000	0.000
109.0	0.000	0.000	0.000	0.000	0.000
109.5	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000
110.5	0.000	0.000	0.000	0.000	0.000

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CANDELA TABULATION - (Cont.)

111.0	0.000	0.000	0.000	0.000	0.000
111.5	0.000	0.000	0.000	0.000	0.000
112.0	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000
113.0	0.000	0.000	0.000	0.000	0.000
113.5	0.000	0.000	0.000	0.000	0.000
114.0	0.000	0.000	0.000	0.000	0.000
114.5	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000
115.5	0.000	0.000	0.000	0.000	0.000
116.0	0.000	0.000	0.000	0.000	0.000
116.5	0.000	0.000	0.000	0.000	0.000
117.0	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000
118.0	0.000	0.000	0.000	0.000	0.000
118.5	0.000	0.000	0.000	0.000	0.000
119.0	0.000	0.000	0.000	0.000	0.000
119.5	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000
120.5	0.000	0.000	0.000	0.000	0.000
121.0	0.000	0.000	0.000	0.000	0.000
121.5	0.000	0.000	0.000	0.000	0.000
122.0	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000
123.0	0.000	0.000	0.000	0.000	0.000
123.5	0.000	0.000	0.000	0.000	0.000
124.0	0.000	0.000	0.000	0.000	0.000
124.5	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000
125.5	0.000	0.000	0.000	0.000	0.000
126.0	0.000	0.000	0.000	0.000	0.000
126.5	0.000	0.000	0.000	0.000	0.000
127.0	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000
128.0	0.000	0.000	0.000	0.000	0.000
128.5	0.000	0.000	0.000	0.000	0.000
129.0	0.000	0.000	0.000	0.000	0.000
129.5	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000
130.5	0.000	0.000	0.000	0.000	0.000
131.0	0.000	0.000	0.000	0.000	0.000
131.5	0.000	0.000	0.000	0.000	0.000
132.0	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000
133.0	0.000	0.000	0.000	0.000	0.000
133.5	0.000	0.000	0.000	0.000	0.000
134.0	0.000	0.000	0.000	0.000	0.000
134.5	0.000	0.000	0.000	0.000	0.000
135.0	0.000	0.000	0.000	0.000	0.000
135.5	0.000	0.000	0.000	0.000	0.000
136.0	0.000	0.000	0.000	0.000	0.000
136.5	0.000	0.000	0.000	0.000	0.000
137.0	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000
138.0	0.000	0.000	0.000	0.000	0.000
138.5	0.000	0.000	0.000	0.000	0.000

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CANDELA TABULATION - (Cont.)

139.0	0.000	0.000	0.000	0.000	0.000
139.5	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000
140.5	0.000	0.000	0.000	0.000	0.000
141.0	0.000	0.000	0.000	0.000	0.000
141.5	0.000	0.000	0.000	0.000	0.000
142.0	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000
143.0	0.000	0.000	0.000	0.000	0.000
143.5	0.000	0.000	0.000	0.000	0.000
144.0	0.000	0.000	0.000	0.000	0.000
144.5	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000
145.5	0.000	0.000	0.000	0.000	0.000
146.0	0.000	0.000	0.000	0.000	0.000
146.5	0.000	0.000	0.000	0.000	0.000
147.0	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000
148.0	0.000	0.000	0.000	0.000	0.000
148.5	0.000	0.000	0.000	0.000	0.000
149.0	0.000	0.000	0.000	0.000	0.000
149.5	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000
150.5	0.000	0.000	0.000	0.000	0.000
151.0	0.000	0.000	0.000	0.000	0.000
151.5	0.000	0.000	0.000	0.000	0.000
152.0	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000
153.0	0.000	0.000	0.000	0.000	0.000
153.5	0.000	0.000	0.000	0.000	0.000
154.0	0.000	0.000	0.000	0.000	0.000
154.5	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000
155.5	0.000	0.000	0.000	0.000	0.000
156.0	0.000	0.000	0.000	0.000	0.000
156.5	0.000	0.000	0.000	0.000	0.000
157.0	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000
158.0	0.000	0.000	0.000	0.000	0.000
158.5	0.000	0.000	0.000	0.000	0.000
159.0	0.000	0.000	0.000	0.000	0.000
159.5	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000
160.5	0.000	0.000	0.000	0.000	0.000
161.0	0.000	0.000	0.000	0.000	0.000
161.5	0.000	0.000	0.000	0.000	0.000
162.0	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000
163.0	0.000	0.000	0.000	0.000	0.000
163.5	0.000	0.000	0.000	0.000	0.000
164.0	0.000	0.000	0.000	0.000	0.000
164.5	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000
165.5	0.000	0.000	0.000	0.000	0.000
166.0	0.000	0.000	0.000	0.000	0.000
166.5	0.000	0.000	0.000	0.000	0.000

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CANDELA TABULATION - (Cont.)

167.0	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000
168.0	0.000	0.000	0.000	0.000	0.000
168.5	0.000	0.000	0.000	0.000	0.000
169.0	0.000	0.000	0.000	0.000	0.000
169.5	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000
170.5	0.000	0.000	0.000	0.000	0.000
171.0	0.000	0.000	0.000	0.000	0.000
171.5	0.000	0.000	0.000	0.000	0.000
172.0	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000
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

IES INDOOR REPORT
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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2591.69	N.A.	12.50
0-30	5544.57	N.A.	26.80
0-40	9169.22	N.A.	44.30
0-60	16564.09	N.A.	80.10
0-80	20557.87	N.A.	99.40
0-90	20683.46	N.A.	100.00
10-90	20016.76	N.A.	96.80
20-40	6577.54	N.A.	31.80
20-50	10420.27	N.A.	50.40
40-70	10113.9	N.A.	48.90
60-80	3993.77	N.A.	19.30
70-80	1274.74	N.A.	6.20
80-90	125.60	N.A.	0.60
90-110	1.49	N.A.	0.00
90-120	1.49	N.A.	0.00
90-130	1.49	N.A.	0.00
90-150	1.49	N.A.	0.00
90-180	1.49	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	20684.96	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	666.70
10-20	1924.98
20-30	2952.88
30-40	3624.65
40-50	3842.74
50-60	3552.13
60-70	2719.03
70-80	1274.74
80-90	125.60
90-100	1.49
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

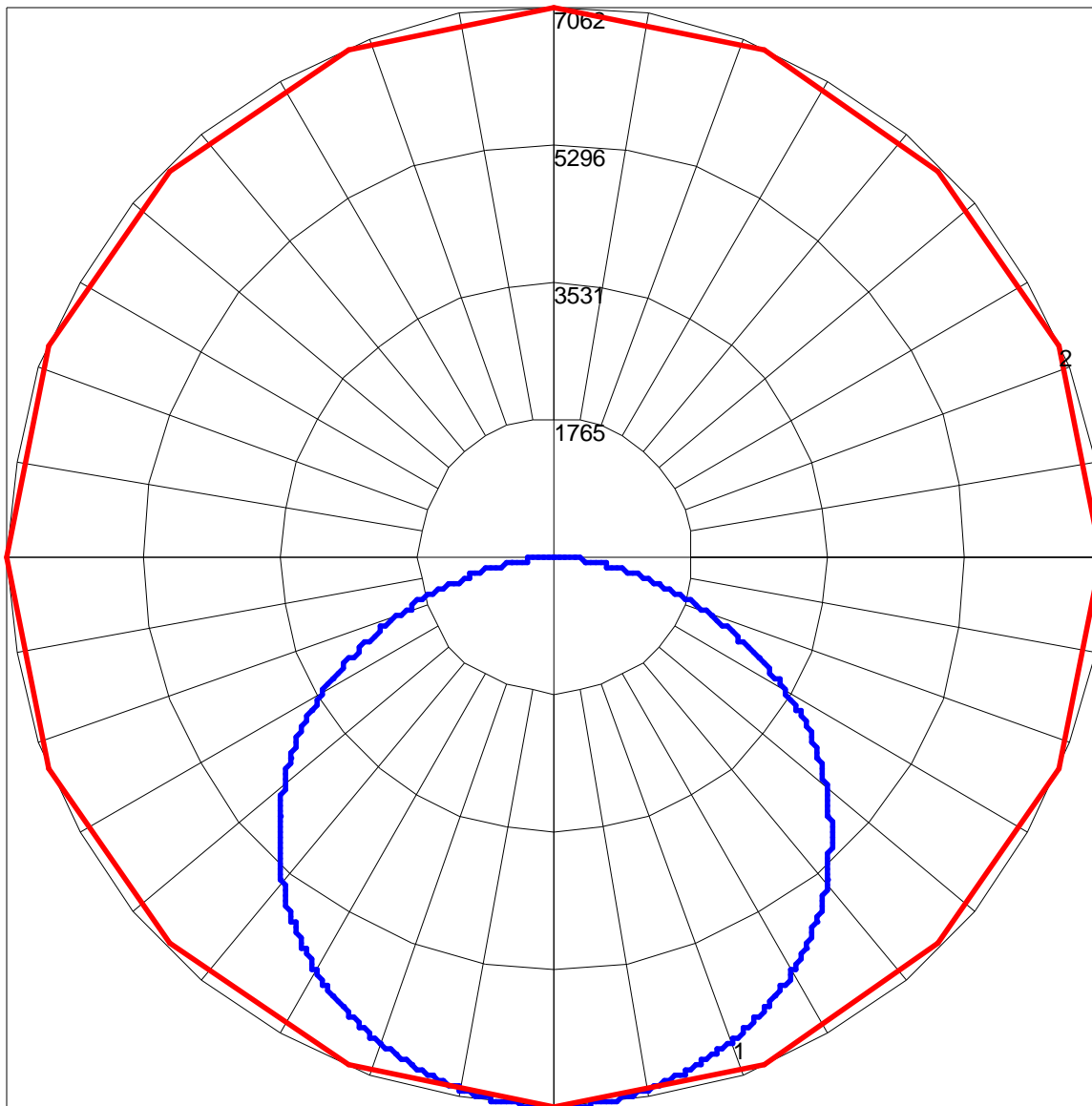
IES INDOOR REPORT
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85
2	99	91	84	79	97	89	83	78	86	81	76	82	78	74	79	76	73	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	59
4	83	71	62	55	80	69	61	55	67	60	54	64	58	53	62	57	52	50
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	51	45	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	30
9	56	43	34	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

POLAR GRAPH



Maximum Candela = 7061.963 Located At Horizontal Angle = 0, Vertical Angle = .5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (.5) (Through Max. Cd.)