



IES INDOOR REPORT
PHOTOMETRIC FILENAME : FHBC48-LED97DMV40.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] LLIA000738-001A
 [TESTLAB] LightLab International Allentown, LLC
 [MANUFAC] Mobern Lighting Co., 8200 Stayton Drive, Jessup, MD 20794, USA
 [LUMCAT] FHBC48-LED97DMV40
 [LUMINAIRE] Catalog Number: FHBC48-LED97DMV40
 [MORE] White formed steel housing, silver matte aluminum reflector, no enclosure.
 [MORE] 224 White LEDs, Four boards with 56 LEDs each.
 [MORE] One Philips Advance Xitanium XI095C275V054BSS1 LED driver.
 [MORE] 120.0Vac, 60.0Hz, 0.7945A, 94.87W, 0.995PF, 5.53%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 LLIA000738-001A Monday, September 18, 2017
 [ISSUEDATE] Tuesday, February 28, 2017 2:06:09 PM

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	13391
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	141
Total Luminaire Watts	94.9
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.34
Spacing Criterion (90-270)	1.32
Spacing Criterion (Diagonal)	1.44
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	1.22 m
Luminous Width (90-270)	0.41 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	9608	8998	8688
55	9418	8539	8352
65	8596	7720	4022
75	6622	3153	440
85	2359	133	42

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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	4602.109	4602.109	4602.109	4602.109	4602.109
0.5	4659.473	4591.430	4592.729	4580.617	4625.673
1.0	4658.370	4590.729	4592.791	4580.555	4624.106
1.5	4656.958	4589.977	4592.430	4580.462	4623.426
2.0	4655.113	4588.668	4592.028	4580.679	4622.643
2.5	4653.267	4587.369	4591.152	4580.885	4621.437
3.0	4650.824	4585.812	4590.152	4581.328	4620.313
3.5	4648.495	4584.070	4589.296	4581.792	4619.932
4.0	4645.701	4582.256	4588.513	4584.039	4621.117
4.5	4642.681	4580.091	4588.307	4586.895	4626.951
5.0	4639.176	4578.112	4589.369	4595.079	4636.177
5.5	4635.156	4575.339	4590.647	4604.624	4645.547
6.0	4630.909	4572.711	4593.079	4613.706	4654.824
6.5	4626.508	4570.124	4597.873	4622.777	4660.957
7.0	4621.467	4566.846	4603.057	4628.889	4665.554
7.5	4616.427	4563.403	4607.861	4633.074	4665.297
8.0	4611.129	4560.207	4612.654	4634.280	4661.390
8.5	4605.665	4556.806	4616.499	4631.497	4655.618
9.0	4599.625	4553.672	4618.488	4626.776	4649.031
9.5	4593.481	4551.002	4618.777	4620.323	4641.764
10.0	4586.998	4548.518	4617.076	4613.355	4634.589
10.5	4580.401	4546.632	4612.809	4606.810	4627.374
11.0	4572.938	4544.508	4607.294	4600.264	4620.457
11.5	4565.454	4542.457	4600.779	4593.265	4613.376
12.0	4558.002	4539.767	4593.677	4586.369	4607.181
12.5	4549.879	4536.829	4586.091	4579.875	4602.408
13.0	4541.540	4533.283	4578.133	4574.247	4598.986
13.5	4533.077	4529.232	4570.031	4569.990	4598.903
14.0	4524.171	4524.325	4561.578	4567.784	4603.552
14.5	4515.213	4518.770	4553.023	4568.361	4614.035
15.0	4506.101	4512.585	4544.880	4572.804	4630.167
15.5	4496.339	4505.307	4536.736	4582.019	4650.000
16.0	4486.526	4497.133	4528.851	4596.409	4670.317
16.5	4476.548	4488.516	4521.996	4613.015	4687.459
17.0	4465.952	4479.125	4516.790	4629.508	4698.385
17.5	4455.458	4469.075	4513.090	4643.331	4703.034
18.0	4444.738	4458.499	4511.472	4652.268	4702.127
18.5	4434.224	4447.459	4511.904	4656.257	4697.530
19.0	4423.246	4436.131	4514.007	4655.628	4690.283
19.5	4412.371	4424.091	4517.265	4651.598	4681.202
20.0	4400.919	4411.784	4520.769	4644.763	4670.750
20.5	4389.065	4399.682	4523.985	4636.270	4659.524
21.0	4377.695	4387.601	4525.975	4626.694	4647.124
21.5	4366.027	4375.221	4526.315	4615.633	4634.394
22.0	4354.028	4362.625	4524.892	4603.882	4620.921
22.5	4341.885	4350.359	4521.017	4591.502	4606.810
23.0	4329.330	4338.453	4514.708	4578.556	4591.502
23.5	4316.229	4326.609	4506.390	4564.867	4574.556
24.0	4303.138	4314.858	4496.298	4550.539	4557.105
24.5	4289.789	4303.282	4484.619	4534.819	4537.674
25.0	4275.904	4291.603	4472.136	4518.048	4515.110
25.5	4261.783	4279.481	4459.654	4500.865	4490.948
26.0	4247.032	4267.143	4446.882	4482.321	4463.911
26.5	4232.127	4254.577	4430.410	4463.189	4433.420

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CANDELA TABULATION - (Cont.)

27.0	4217.345	4241.713	4414.505	4441.759	4398.991
27.5	4201.491	4228.560	4397.115	4416.711	4360.986
28.0	4185.308	4214.634	4378.128	4387.117	4319.445
28.5	4169.259	4200.791	4360.151	4353.059	4278.564
29.0	4152.158	4186.164	4341.349	4318.074	4236.270
29.5	4135.201	4171.135	4319.754	4281.409	4195.729
30.0	4118.038	4155.642	4298.036	4244.043	4158.672
30.5	4100.185	4139.974	4274.090	4205.965	4124.852
31.0	4082.311	4123.265	4248.557	4166.826	4092.330
31.5	4064.540	4106.669	4222.066	4130.707	4061.438
32.0	4046.130	4089.918	4194.297	4097.227	4030.143
32.5	4027.153	4072.137	4164.847	4064.674	3996.797
33.0	4008.702	4054.305	4134.232	4033.184	3963.358
33.5	3989.045	4036.338	4102.834	4001.992	3929.713
34.0	3969.697	4017.330	4070.199	3970.491	3893.625
34.5	3949.628	3998.415	4037.595	3939.371	3854.465
35.0	3929.125	3979.222	4004.486	3907.808	3814.511
35.5	3908.602	3959.358	3970.594	3875.524	3777.330
36.0	3887.440	3938.433	3936.227	3842.889	3744.087
36.5	3866.329	3917.209	3902.407	3809.904	3712.555
37.0	3843.982	3894.614	3867.813	3775.454	3682.858
37.5	3821.459	3871.545	3833.715	3742.026	3654.759
38.0	3798.637	3847.383	3800.214	3708.577	3626.783
38.5	3774.238	3822.191	3766.095	3675.282	3598.632
39.0	3750.633	3796.782	3732.481	3642.513	3571.028
39.5	3726.141	3770.682	3699.433	3610.156	3543.165
40.0	3701.155	3743.057	3665.830	3578.326	3514.478
40.5	3675.983	3715.802	3633.586	3547.536	3486.884
41.0	3650.687	3687.889	3600.951	3517.107	3459.248
41.5	3624.649	3659.305	3567.492	3486.719	3431.242
42.0	3598.302	3630.597	3534.898	3457.259	3402.926
42.5	3571.729	3601.549	3502.408	3429.479	3374.373
43.0	3544.856	3571.584	3469.185	3404.122	3345.645
43.5	3517.591	3541.279	3435.983	3368.178	3317.463
44.0	3489.543	3511.056	3402.534	3336.800	3288.106
44.5	3460.846	3479.493	3367.848	3306.773	3257.584
45.0	3432.654	3447.879	3333.059	3278.921	3228.907
45.5	3403.307	3415.965	3298.001	3243.988	3199.798
46.0	3373.291	3382.599	3263.181	3211.394	3169.802
46.5	3343.057	3349.933	3228.928	3179.883	3139.249
47.0	3312.556	3316.576	3194.118	3148.629	3107.841
47.5	3280.859	3282.406	3158.803	3116.602	3076.350
48.0	3249.616	3248.358	3123.921	3084.586	3045.261
48.5	3218.156	3213.487	3089.194	3052.260	3014.265
49.0	3184.862	3178.131	3053.786	3019.409	2981.878
49.5	3153.072	3142.764	3019.296	2989.372	2950.243
50.0	3120.210	3106.913	2984.434	2956.015	2918.402
50.5	3086.493	3069.619	2948.872	2924.123	2885.571
51.0	3053.219	3032.789	2913.969	2889.581	2853.060
51.5	3019.759	2995.392	2879.180	2855.729	2820.270
52.0	2984.723	2957.139	2842.824	2820.507	2786.965
52.5	2947.656	2918.876	2807.839	2784.368	2754.423
53.0	2905.671	2878.190	2772.276	2747.950	2720.726
53.5	2865.058	2835.691	2735.694	2711.037	2685.834
54.0	2828.011	2795.376	2699.482	2675.196	2650.921
54.5	2791.676	2755.681	2663.033	2639.242	2615.977

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55.0	2752.970	2714.975	2626.007	2602.556	2580.384
55.5	2710.985	2673.764	2589.496	2566.973	2544.595
56.0	2667.043	2629.666	2552.439	2531.772	2508.826
56.5	2626.399	2586.497	2514.279	2497.117	2472.027
57.0	2582.291	2542.358	2476.511	2463.781	2435.063
57.5	2539.132	2496.117	2438.330	2419.951	2397.831
58.0	2498.714	2451.576	2399.717	2379.101	2359.547
58.5	2460.008	2409.736	2361.031	2339.962	2321.727
59.0	2419.797	2367.773	2319.944	2300.864	2283.268
59.5	2373.978	2321.222	2277.331	2261.106	2241.799
60.0	2329.427	2275.269	2236.821	2222.019	2201.083
60.5	2283.588	2226.915	2196.733	2182.065	2148.368
61.0	2235.512	2181.106	2155.099	2141.081	2067.894
61.5	2193.259	2137.442	2111.497	2100.416	1939.354
62.0	2153.481	2091.984	2069.894	2057.927	1746.442
62.5	2110.023	2044.908	2027.106	1999.254	1404.662
63.0	2060.060	1997.532	1984.709	1908.431	1190.298
63.5	2010.407	1951.642	1943.756	1770.140	1076.014
64.0	1963.403	1906.854	1902.638	1511.988	1009.023
64.5	1920.635	1861.622	1859.932	1209.790	976.584
65.0	1877.899	1814.835	1816.474	1055.841	952.721
65.5	1828.565	1762.419	1772.016	966.925	928.507
66.0	1775.417	1716.445	1728.980	922.539	904.181
66.5	1728.155	1673.688	1687.521	896.501	879.534
67.0	1684.615	1628.931	1643.898	871.463	855.362
67.5	1640.342	1577.629	1596.327	846.745	831.850
68.0	1585.514	1531.562	1544.334	821.573	808.832
68.5	1535.376	1485.806	1476.044	796.184	785.949
69.0	1492.650	1438.554	1357.544	771.549	756.509
69.5	1447.831	1392.539	1131.615	747.212	724.400
70.0	1390.746	1349.741	876.617	722.153	692.765
70.5	1345.659	1300.892	758.241	693.775	652.379
71.0	1302.355	1253.351	697.692	661.718	607.735
71.5	1247.600	1209.873	668.191	625.619	553.371
72.0	1201.461	1162.786	643.761	587.047	500.605
72.5	1155.210	1119.544	618.661	539.960	450.508
73.0	1101.969	1069.468	592.603	489.080	394.670
73.5	1058.604	1025.515	568.152	437.376	326.277
74.0	1008.497	980.707	542.259	385.960	224.383
74.5	961.338	936.589	517.520	327.823	141.703
75.0	913.478	890.038	491.565	237.794	69.341
75.5	867.361	847.611	461.641	155.773	25.182
76.0	819.161	803.565	425.058	80.443	8.535
76.5	772.559	758.189	384.785	31.573	7.659
77.0	729.162	715.164	341.646	11.895	6.783
77.5	682.364	668.356	293.013	10.916	5.731
78.0	637.350	608.415	236.371	9.906	5.309
78.5	594.695	463.589	172.833	9.143	5.206
79.0	551.856	337.080	94.565	8.834	5.010
79.5	509.789	289.715	41.005	8.576	4.834
80.0	468.011	268.326	14.441	8.411	4.659
80.5	428.645	246.050	13.112	8.288	4.525
81.0	389.867	227.589	11.957	8.092	4.463
81.5	353.201	208.004	11.473	7.844	4.247
82.0	316.845	189.212	11.174	7.638	4.206
82.5	282.149	165.700	10.947	7.535	4.041

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CANDELA TABULATION - (Cont.)

83.0	248.102	134.756	10.627	7.277	3.865
83.5	215.941	101.080	10.339	7.102	3.608
84.0	184.027	55.168	10.061	6.803	3.443
84.5	154.258	18.626	9.793	6.680	3.257
85.0	125.664	13.101	9.525	6.442	3.103
85.5	100.502	12.215	9.287	6.144	2.855
86.0	77.619	11.792	8.865	5.906	2.639
86.5	56.333	11.328	8.566	5.566	2.412
87.0	37.181	11.019	8.236	5.267	2.134
87.5	22.348	10.504	7.813	5.061	2.134
88.0	14.194	9.937	7.411	4.700	0.000
88.5	12.452	9.257	7.040	4.484	0.000
89.0	9.205	8.617	6.649	4.267	0.000
89.5	4.206	7.927	6.226	3.927	0.000
90.0	0.000	6.989	5.721	3.690	0.000
90.5	0.000	5.711	5.092	3.319	0.000
91.0	0.000	4.525	4.546	2.979	0.000
91.5	0.000	3.587	3.907	2.670	0.000
92.0	0.000	2.804	3.412	2.371	0.000
92.5	0.000	2.340	2.907	0.000	0.000
93.0	0.000	0.000	2.536	0.000	0.000
93.5	0.000	0.000	2.227	0.000	0.000
94.0	0.000	0.000	0.000	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

IES INDOOR REPORT
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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	1730.89	N.A.	12.90
0-30	3764.2	N.A.	28.10
0-40	6229.81	N.A.	46.50
0-60	11178.00	N.A.	83.50
0-80	13342.12	N.A.	99.60
0-90	13390.52	N.A.	100.00
10-90	12951.00	N.A.	96.70
20-40	4498.92	N.A.	33.60
20-50	7079.86	N.A.	52.90
40-70	6543.49	N.A.	48.90
60-80	2164.12	N.A.	16.20
70-80	568.82	N.A.	4.20
80-90	48.40	N.A.	0.40
90-110	0.87	N.A.	0.00
90-120	0.87	N.A.	0.00
90-130	0.87	N.A.	0.00
90-150	0.87	N.A.	0.00
90-180	0.87	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	13391.39	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	439.52
10-20	1291.36
20-30	2033.31
30-40	2465.61
40-50	2580.94
50-60	2367.25
60-70	1595.3
70-80	568.82
80-90	48.40
90-100	0.87
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

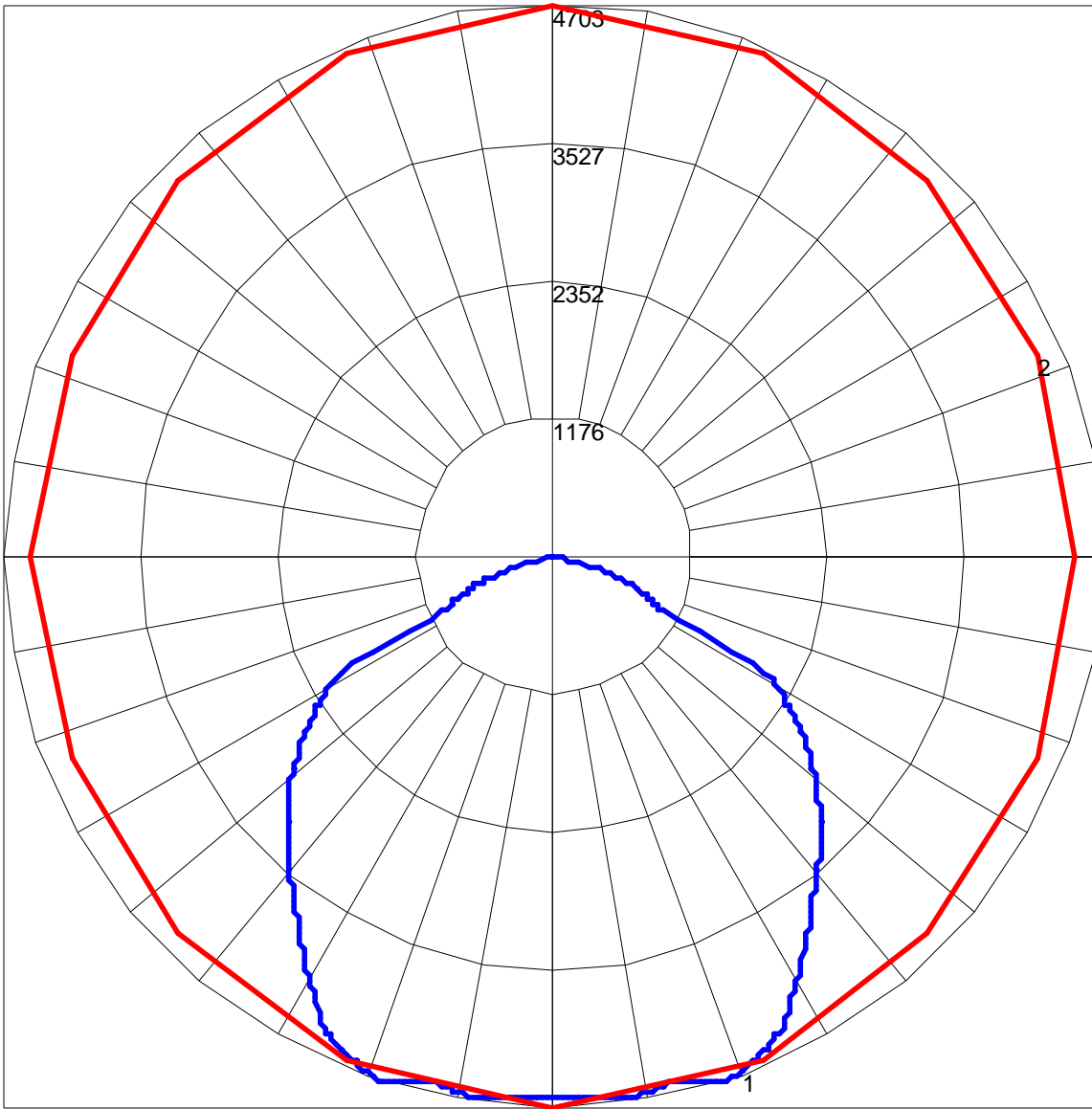
IES INDOOR REPORT
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86
2	100	92	86	81	98	90	85	80	87	82	78	84	80	76	81	77	74	72
3	91	81	73	67	89	80	72	67	77	71	65	74	69	64	72	67	63	61
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	42	55	48	42	53	47	42	52	46	41	39
7	66	52	44	38	64	52	43	37	50	43	37	49	42	37	47	41	37	35
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

POLAR GRAPH



Maximum Candela = 4703.034 Located At Horizontal Angle = 90, Vertical Angle = 17.5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (17.5) (Through Max. Cd.)