



IES INDOOR REPORT
PHOTOMETRIC FILENAME : HBIA24-LED175DMV50.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] LLIA000974-003A
 [TESTLAB] LightLab International Allentown, LLC
 [MANUFAC] Mobern Lighting Co., 8200 Stayton Drive, Jessup, MD 20794, USA
 [LUMCAT] HBIA24-LED175DMV50
 [LUMINAIRE] Catalog Number: HBIA24-LED175DMV50
 [MORE] Pendant/surface mounted, formed steel housing, formed
 [MORE] aluminum LED mounting plates, no enclosure.
 [MORE] 624 white LEDs, four ULT Everline M18CC850D156N2S50C LED boards with 156 LEDs each.
 [MORE] Two ULT Everline D23CC90UNVTW-F LED drivers each set at 2040mA
 [MORE] 120.0Vac, 60.00Hz, 1.461A, 174.8W, 0.997PF, 5.8%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 3.820a.
 [DATE] This file ws extrapolated from test- LLIA000974-003A to 5000K on Feb 6,2019
 [ISSUE DATE] Thursday, April 26, 2018 2:06:17 PM

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	24419
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	140
Total Luminaire Watts	174.8
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)	0.58 m
Luminous Width (90-270)	0.48 m
Luminous Height	0.02 m

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LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	29718	29248	29499
55	28042	27546	28110
65	24981	24759	20374
75	18893	9880	1369
85	6577	518	376

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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	8664.264	8664.264	8664.264	8664.264	8664.264
0.5	8694.661	8683.522	8618.439	8657.456	8698.575
1.0	8693.287	8682.991	8617.742	8656.904	8697.784
1.5	8691.319	8681.409	8616.597	8655.707	8697.066
2.0	8688.550	8679.223	8614.827	8653.979	8695.858
2.5	8685.469	8676.527	8612.828	8652.594	8694.005
3.0	8681.555	8673.050	8609.757	8650.242	8692.631
3.5	8677.495	8669.438	8606.478	8647.233	8689.539
4.0	8672.842	8664.732	8602.439	8643.892	8686.021
4.5	8667.595	8659.340	8598.275	8640.113	8682.867
5.0	8661.682	8653.729	8593.497	8635.970	8679.025
5.5	8655.093	8647.389	8588.084	8631.108	8674.570
6.0	8647.837	8640.300	8582.441	8626.559	8670.343
6.5	8639.603	8632.222	8575.675	8621.416	8664.993
7.0	8631.108	8624.144	8568.502	8615.941	8659.840
7.5	8621.604	8615.347	8561.038	8610.569	8654.624
8.0	8612.120	8605.999	8553.168	8604.334	8649.180
8.5	8601.398	8595.724	8544.924	8597.536	8644.506
9.0	8590.374	8585.210	8536.231	8591.737	8641.289
9.5	8578.839	8574.332	8527.341	8586.095	8639.238
10.0	8566.316	8562.506	8517.878	8581.442	8636.500
10.5	8553.616	8550.462	8508.124	8577.163	8632.784
11.0	8539.802	8537.605	8498.245	8572.604	8628.724
11.5	8526.113	8524.177	8488.137	8566.837	8624.695
12.0	8511.258	8510.644	8477.852	8560.206	8620.854
12.5	8495.955	8496.496	8468.046	8554.137	8616.097
13.0	8480.111	8481.548	8457.480	8547.984	8608.893
13.5	8464.194	8466.057	8447.330	8539.896	8599.878
14.0	8447.372	8450.328	8436.524	8530.141	8590.790
14.5	8429.477	8433.245	8425.032	8518.472	8580.859
15.0	8411.270	8416.027	8413.268	8507.104	8570.616
15.5	8391.897	8397.747	8400.027	8494.675	8557.582
16.0	8372.232	8379.311	8386.785	8482.172	8542.186
16.5	8351.797	8359.948	8372.326	8467.463	8527.747
17.0	8330.998	8340.804	8357.190	8451.234	8515.016
17.5	8309.356	8320.651	8340.221	8434.442	8499.588
18.0	8287.828	8300.320	8322.920	8418.859	8483.119
18.5	8265.374	8279.479	8305.525	8402.650	8466.182
19.0	8242.326	8257.639	8286.672	8385.016	8444.852
19.5	8218.643	8235.976	8267.050	8366.101	8421.357
20.0	8194.315	8213.782	8246.573	8344.271	8394.988
20.5	8170.070	8191.421	8225.482	8320.286	8367.173
21.0	8144.087	8167.665	8203.174	8293.668	8337.879
21.5	8118.332	8144.409	8180.324	8265.686	8309.314
22.0	8091.464	8119.925	8156.266	8236.007	8279.604
22.5	8064.773	8095.441	8132.053	8206.130	8249.988
23.0	8037.519	8070.863	8107.631	8175.254	8219.070
23.5	8008.829	8044.806	8081.398	8142.411	8185.227
24.0	7980.119	8018.563	8054.987	8109.588	8150.811
24.5	7950.554	7991.320	8026.110	8075.526	8113.429
25.0	7920.917	7964.129	7996.858	8041.475	8076.578
25.5	7890.197	7934.939	7965.576	8005.144	8039.227
26.0	7858.946	7906.093	7932.857	7968.397	8000.897
26.5	7826.092	7876.144	7898.338	7929.703	7959.580

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CANDELA TABULATION - (Cont.)

27.0	7792.322	7845.798	7863.777	7891.332	7917.128
27.5	7756.054	7814.735	7827.956	7852.471	7872.209
28.0	7716.912	7782.329	7790.990	7811.674	7826.207
28.5	7675.418	7749.350	7753.233	7770.399	7780.361
29.0	7630.384	7714.247	7713.935	7725.823	7733.641
29.5	7584.174	7677.583	7674.981	7680.810	7687.473
30.0	7534.727	7638.431	7635.048	7633.497	7639.212
30.5	7486.268	7598.134	7594.970	7587.016	7590.347
31.0	7438.757	7554.454	7552.924	7538.610	7540.379
31.5	7393.338	7509.712	7511.742	7491.067	7491.099
32.0	7350.033	7463.481	7469.654	7443.088	7441.901
32.5	7307.341	7414.991	7425.734	7392.849	7391.027
33.0	7266.794	7367.490	7381.804	7342.787	7340.893
33.5	7225.352	7318.594	7336.208	7291.403	7288.510
34.0	7184.305	7270.937	7291.164	7240.124	7237.032
34.5	7142.291	7223.499	7244.423	7188.605	7184.274
35.0	7100.432	7176.446	7196.246	7137.159	7131.485
35.5	7058.740	7130.798	7148.037	7085.806	7080.289
36.0	7014.404	7085.067	7098.756	7033.537	7027.770
36.5	6970.265	7039.898	7048.975	6982.050	6975.116
37.0	6923.025	6993.292	6996.363	6928.240	6921.786
37.5	6874.046	6947.447	6943.647	6875.347	6869.684
38.0	6820.101	6899.748	6888.099	6820.736	6815.854
38.5	6764.595	6852.206	6832.978	6766.656	6762.045
39.0	6705.341	6802.290	6775.526	6711.275	6708.017
39.5	6645.005	6751.978	6717.386	6657.101	6654.603
40.0	6583.107	6698.065	6656.393	6601.522	6599.118
40.5	6523.770	6643.485	6596.494	6547.130	6545.079
41.0	6467.681	6587.542	6536.491	6492.852	6490.760
41.5	6413.049	6528.527	6475.291	6436.212	6435.972
42.0	6359.625	6469.190	6414.902	6381.299	6380.143
42.5	6305.806	6408.812	6353.025	6324.283	6322.097
43.0	6253.891	6349.975	6292.824	6268.506	6266.497
43.5	6200.102	6288.879	6231.947	6210.637	6208.670
44.0	6147.157	6228.824	6170.600	6153.955	6151.227
44.5	6091.058	6166.894	6107.734	6095.086	6091.016
45.0	6034.032	6105.611	6046.149	6037.758	6032.470
45.5	5973.935	6044.223	5984.157	5979.723	5973.550
46.0	5907.415	5980.503	5920.188	5919.813	5912.297
46.5	5839.354	5918.751	5856.604	5860.310	5852.471
47.0	5768.087	5855.552	5791.093	5798.984	5789.699
47.5	5698.486	5793.196	5726.822	5739.168	5728.155
48.0	5629.291	5727.436	5661.010	5677.125	5665.132
48.5	5565.571	5661.760	5596.999	5615.654	5602.974
49.0	5503.101	5593.199	5531.093	5552.809	5538.380
49.5	5443.004	5524.847	5465.760	5490.567	5474.765
50.0	5382.012	5456.985	5400.489	5427.524	5411.462
50.5	5320.593	5387.966	5333.751	5362.618	5346.847
51.0	5257.113	5321.561	5267.627	5299.658	5281.836
51.5	5188.344	5253.146	5199.858	5235.959	5215.691
52.0	5116.536	5186.200	5132.703	5173.770	5150.420
52.5	5039.856	5116.296	5063.216	5107.927	5083.224
53.0	4964.279	5046.404	4994.583	5042.084	5016.787
53.5	4887.204	4973.180	4923.618	4975.241	4948.227
54.0	4816.030	4899.956	4854.527	4907.461	4880.801
54.5	4748.678	4824.785	4785.727	4839.942	4812.116

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55.0	4680.846	4747.137	4715.439	4771.798	4739.559
55.5	4614.888	4670.624	4646.472	4704.560	4668.927
56.0	4544.808	4592.549	4576.184	4633.075	4596.463
56.5	4470.606	4518.013	4507.436	4560.860	4523.770
57.0	4390.824	4443.425	4436.575	4486.596	4448.287
57.5	4311.447	4371.919	4367.755	4414.454	4374.469
58.0	4230.062	4299.434	4296.623	4338.263	4297.675
58.5	4154.517	4226.481	4226.876	4262.062	4221.984
59.0	4082.729	4152.487	4156.317	4185.747	4144.721
59.5	4012.472	4076.306	4083.323	4107.380	4067.603
60.0	3938.707	3998.221	4009.818	4029.867	3991.059
60.5	3858.446	3916.669	3933.543	3950.210	3913.067
61.0	3778.008	3835.596	3858.706	3872.635	3835.898
61.5	3694.447	3752.264	3780.745	3792.675	3750.098
62.0	3615.487	3672.638	3702.577	3714.278	3656.169
62.5	3539.598	3592.252	3622.420	3633.892	3549.227
63.0	3464.969	3516.800	3545.698	3554.057	3428.648
63.5	3385.613	3440.359	3468.945	3465.343	3279.681
64.0	3303.645	3363.887	3390.370	3364.970	3093.852
64.5	3220.209	3282.648	3310.151	3253.125	2860.200
65.0	3140.874	3199.805	3229.598	3118.388	2599.585
65.5	3062.789	3116.150	3148.983	2955.097	2325.178
66.0	2982.257	3030.112	3066.151	2747.636	2067.967
66.5	2901.236	2950.756	2986.109	2505.468	1845.662
67.0	2817.893	2870.651	2904.369	2240.732	1684.161
67.5	2736.904	2790.942	2823.182	1987.727	1573.971
68.0	2658.381	2711.316	2743.483	1764.162	1499.540
68.5	2575.715	2626.724	2659.151	1585.172	1432.603
69.0	2495.985	2546.671	2566.648	1467.435	1372.871
69.5	2411.830	2463.558	2459.290	1385.217	1316.761
70.0	2331.434	2382.651	2343.406	1318.645	1268.688
70.5	2250.986	2299.402	2204.994	1255.779	1210.173
71.0	2168.601	2219.433	2040.225	1200.960	1152.970
71.5	2085.373	2135.039	1835.502	1148.379	1085.898
72.0	2007.714	2051.467	1614.310	1088.553	1006.949
72.5	1926.371	1971.019	1399.250	1027.488	905.909
73.0	1844.673	1887.854	1202.594	953.265	729.647
73.5	1766.598	1805.604	1058.988	869.651	506.113
74.0	1683.349	1724.104	970.233	727.232	285.713
74.5	1607.210	1643.718	907.762	541.893	166.956
75.0	1524.961	1562.593	847.093	330.465	113.219
75.5	1449.655	1484.966	797.167	177.282	84.529
76.0	1368.145	1405.912	741.463	111.741	64.334
76.5	1293.109	1329.149	678.732	82.010	45.637
77.0	1219.001	1255.269	607.871	62.616	32.469
77.5	1142.050	1178.443	504.895	43.035	27.181
78.0	1068.795	1100.524	380.246	30.803	25.765
78.5	995.540	1005.054	234.246	27.451	24.713
79.0	925.345	898.810	118.768	26.171	23.568
79.5	854.671	793.679	76.045	24.932	22.194
80.0	787.048	676.119	55.194	23.714	21.018
80.5	719.196	542.757	38.923	22.444	19.977
81.0	655.164	434.024	33.062	21.351	19.196
81.5	593.079	362.528	30.949	20.414	18.551
82.0	532.919	315.819	29.106	19.685	18.103
82.5	474.696	263.717	27.170	19.019	17.520

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CANDELA TABULATION - (Cont.)

83.0	417.785	212.166	25.452	18.332	16.979
83.5	365.152	161.084	23.922	17.666	16.417
84.0	313.341	104.797	22.454	16.958	15.740
84.5	265.268	62.137	21.226	16.177	14.730
85.0	218.683	47.178	19.894	14.928	13.262
85.5	176.304	42.858	18.644	13.606	12.242
86.0	137.370	38.777	17.229	12.711	11.805
86.5	101.456	34.998	15.771	11.878	10.941
87.0	75.212	31.521	14.324	10.951	10.014
87.5	58.369	28.242	12.981	9.744	8.869
88.0	45.596	25.286	11.576	8.588	7.558
88.5	32.937	21.445	10.171	7.016	5.882
89.0	20.591	16.927	8.953	5.413	4.039
89.5	9.619	12.846	7.412	3.498	1.967
90.0	3.008	10.191	6.173	2.363	0.874
90.5	0.687	8.495	4.716	1.645	0.364
91.0	0.489	7.245	3.987	1.385	0.239
91.5	0.489	6.079	3.185	1.249	0.291
92.0	0.583	5.111	2.623	1.145	0.187
92.5	0.583	4.351	2.342	0.999	0.229
93.0	0.604	3.852	2.092	0.968	0.281
93.5	0.677	3.477	2.092	0.926	0.312
94.0	0.781	3.144	2.155	1.010	0.448
94.5	0.874	2.977	2.249	0.989	0.427
95.0	0.937	2.790	2.363	1.062	0.489
95.5	1.093	2.696	2.363	1.103	0.479
96.0	1.187	2.540	2.259	1.135	0.583
96.5	1.301	2.550	2.249	1.218	0.625
97.0	1.457	2.561	2.165	1.270	0.645
97.5	1.603	2.550	2.103	1.385	0.812
98.0	1.926	2.623	2.072	1.405	0.926
98.5	2.186	2.727	1.999	1.478	0.916
99.0	2.519	2.769	1.988	1.468	1.010
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	3211.43	N.A.	13.20
0-30	6897.27	N.A.	28.20
0-40	11375.74	N.A.	46.60
0-60	20272.81	N.A.	83.00
0-80	24325.46	N.A.	99.60
0-90	24416.96	N.A.	100.00
10-90	23594.77	N.A.	96.60
20-40	8164.31	N.A.	33.40
20-50	12832.42	N.A.	52.60
40-70	11891.71	N.A.	48.70
60-80	4052.65	N.A.	16.60
70-80	1058.01	N.A.	4.30
80-90	91.50	N.A.	0.40
90-110	2.19	N.A.	0.00
90-120	2.19	N.A.	0.00
90-130	2.19	N.A.	0.00
90-150	2.19	N.A.	0.00
90-180	2.19	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	24419.15	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	822.20
10-20	2389.23
20-30	3685.84
30-40	4478.47
40-50	4668.1
50-60	4228.97
60-70	2994.65
70-80	1058.01
80-90	91.50
90-100	2.19
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

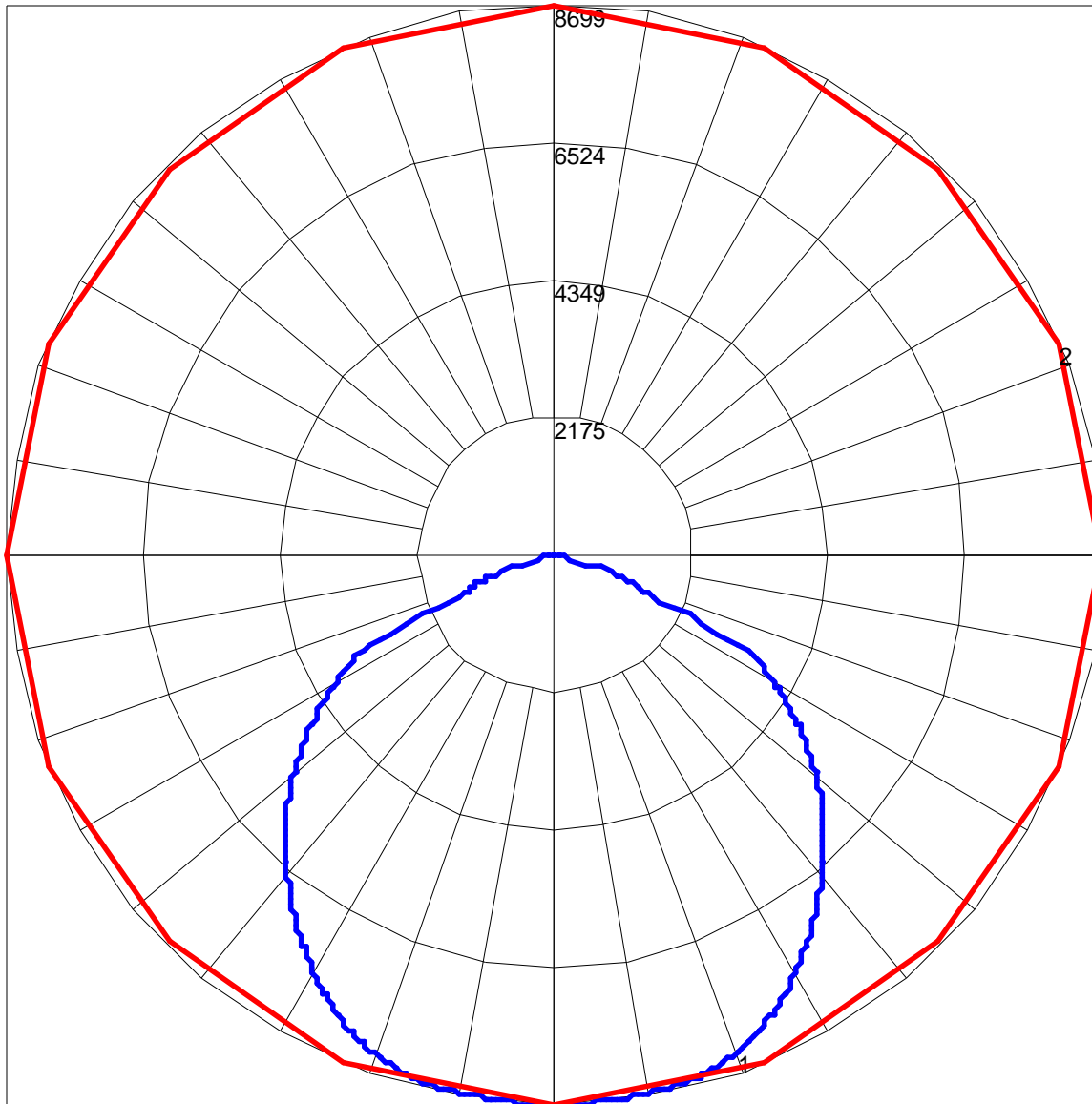
IES INDOOR REPORT
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	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	80	98	90	85	79	87	82	78	84	80	76	81	77	74	72
3	91	81	73	67	89	80	72	67	77	70	65	74	69	64	71	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	34	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	30	28
10	54	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

POLAR GRAPH



Maximum Candela = 8698.575 Located At Horizontal Angle = 90, Vertical Angle = .5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (.5) (Through Max. Cd.)