



IES INDOOR REPORT
PHOTOMETRIC FILENAME : HBIA48-LED175DMVFR35.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] LLIA000974-013A
 [TESTLAB] LightLab International Allentown, LLC
 [MANUFAC] Mobern Lighting Co., 8200 Stayton Drive, Jessup, MD 20794, USA
 [LUMCAT] HBIA48-LED175DMVFR35
 [LUMINAIRE] Catalog Number: HBIA48-LED175DMVFR35
 [MORE] Pendant/surface mounted, formed steel housing, formed aluminum LED mounting plates, frosted plastic enclosures.
 [MORE] 624 white LEDs, four ULT Everline M18CC835D156N2S50C LED boards with 156 LEDs each.
 [MORE] Two ULT Everline D23CC90UNVTW-F LED drivers each set at 1190mA
 [MORE] 120.0Vac, 60.00Hz, 175W, 0.993PF, 7.6%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 LLIA00974-011A
 [DATE]This file created: Wednesday, August 29, 2018
 [ISSUE DATE] Wednesday, August 29, 2018

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	19554
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	112
Total Luminaire Watts	175
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.36
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.14 m
Luminous Width (90-270)	0.29 m
Luminous Height	0.00 m

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LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	16592	17548	18624
55	15440	16945	18659
65	13997	16790	19730
75	11473	18673	23582
85	6243	32034	46803

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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	6399.190	6399.190	6399.190	6399.190	6399.190
0.5	6442.658	6401.676	6389.261	6384.690	6397.682
1.0	6441.247	6400.473	6388.331	6383.615	6396.591
1.5	6439.194	6398.773	6386.823	6382.316	6394.971
2.0	6436.339	6396.223	6384.786	6380.423	6392.966
2.5	6432.826	6392.630	6381.979	6378.162	6390.336
3.0	6428.287	6388.748	6378.514	6375.114	6387.160
3.5	6423.025	6384.032	6374.504	6371.746	6383.503
4.0	6417.235	6378.787	6370.029	6367.607	6379.124
4.5	6410.691	6372.531	6364.463	6363.116	6374.729
5.0	6403.793	6365.795	6358.865	6358.464	6369.612
5.5	6395.629	6358.416	6352.642	6353.011	6363.950
6.0	6387.160	6350.172	6345.456	6346.819	6357.919
6.5	6377.327	6341.334	6337.805	6340.195	6351.278
7.0	6367.495	6331.998	6329.336	6333.474	6343.964
7.5	6356.443	6321.829	6320.337	6325.679	6336.249
8.0	6345.007	6311.018	6310.810	6317.771	6328.341
8.5	6331.966	6299.598	6300.656	6309.222	6319.648
9.0	6319.343	6287.407	6290.326	6300.255	6311.034
9.5	6305.789	6274.559	6279.163	6290.679	6301.121
10.0	6291.449	6261.037	6267.357	6280.173	6291.145
10.5	6276.436	6247.035	6254.846	6269.667	6280.189
11.0	6260.476	6231.925	6241.581	6258.712	6269.218
11.5	6244.067	6216.334	6228.252	6247.243	6257.573
12.0	6226.712	6200.021	6213.896	6234.812	6245.302
12.5	6208.891	6183.757	6199.364	6222.622	6232.903
13.0	6190.269	6165.888	6183.580	6209.068	6219.333
13.5	6171.053	6148.020	6167.989	6195.498	6205.956
14.0	6151.933	6129.509	6151.869	6181.720	6192.242
14.5	6131.306	6109.957	6134.642	6167.364	6177.565
15.0	6110.069	6090.163	6117.111	6152.158	6162.841
15.5	6088.271	6069.295	6098.552	6136.134	6146.817
16.0	6066.039	6048.058	6079.801	6120.302	6131.402
16.5	6042.525	6025.779	6060.297	6103.460	6114.416
17.0	6019.347	6003.676	6040.455	6086.538	6097.012
17.5	5994.260	5980.145	6019.347	6068.557	6079.336
18.0	5969.944	5956.903	5998.094	6050.609	6061.452
18.5	5944.472	5932.747	5977.129	6032.131	6043.070
19.0	5918.375	5907.404	5954.288	6012.947	6024.463
19.5	5891.444	5881.948	5931.624	5993.314	6004.221
20.0	5863.935	5855.498	5907.917	5972.959	5983.995
20.5	5836.587	5829.273	5884.258	5952.300	5963.961
21.0	5807.346	5801.620	5859.636	5930.774	5942.740
21.5	5778.971	5774.191	5834.742	5909.328	5921.503
22.0	5749.105	5745.720	5809.126	5886.953	5898.983
22.5	5718.950	5717.217	5783.382	5864.785	5876.944
23.0	5688.971	5688.393	5757.045	5841.736	5854.295
23.5	5657.693	5657.998	5729.825	5817.644	5830.588
24.0	5625.677	5627.826	5702.236	5793.552	5806.753
24.5	5592.843	5596.436	5673.845	5768.738	5781.794
25.0	5560.523	5565.126	5645.230	5743.459	5756.483
25.5	5526.999	5532.693	5615.828	5717.490	5731.461
26.0	5493.347	5500.741	5586.331	5691.377	5704.915
26.5	5458.460	5467.154	5555.727	5664.414	5677.839

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CANDELA TABULATION - (Cont.)

27.0	5423.878	5434.031	5525.315	5637.114	5651.052
27.5	5389.167	5400.475	5494.839	5609.493	5623.720
28.0	5352.708	5365.685	5462.566	5581.054	5595.714
28.5	5316.907	5330.782	5430.855	5552.422	5567.019
29.0	5279.694	5295.012	5397.540	5522.299	5537.441
29.5	5243.332	5259.468	5364.995	5492.657	5508.617
30.0	5205.589	5222.704	5330.958	5462.021	5478.189
30.5	5168.489	5186.293	5297.162	5431.545	5448.018
31.0	5129.913	5149.257	5262.211	5399.497	5416.259
31.5	5092.443	5112.445	5227.805	5368.331	5385.735
32.0	5054.573	5075.313	5192.902	5336.171	5354.312
32.5	5014.361	5036.704	5156.507	5303.145	5321.382
33.0	4973.779	4998.369	5120.225	5269.926	5289.110
33.5	4931.899	4958.974	5083.060	5235.889	5255.362
34.0	4890.981	4920.366	5046.376	5201.900	5222.496
34.5	4848.828	4879.641	5008.362	5166.997	5187.625
35.0	4807.894	4838.947	4969.994	5131.501	5153.203
35.5	4765.725	4798.109	4931.995	5096.469	5119.166
36.0	4723.700	4756.630	4893.146	5060.556	5083.429
36.5	4682.012	4715.888	4854.650	5024.530	5048.590
37.0	4638.608	4673.591	4814.695	4987.221	5012.259
37.5	4596.118	4631.823	4775.284	4950.249	4976.747
38.0	4552.312	4588.755	4734.639	4912.282	4939.293
38.5	4508.523	4546.650	4694.459	4874.636	4902.754
39.0	4464.140	4503.246	4653.461	4835.835	4865.076
39.5	4420.431	4460.708	4612.767	4797.580	4828.088
40.0	4375.407	4416.550	4570.919	4758.057	4789.512
40.5	4331.089	4373.322	4529.487	4719.112	4751.834
41.0	4286.465	4329.918	4487.880	4680.135	4713.915
41.5	4241.329	4285.150	4445.614	4639.538	4674.665
42.0	4195.567	4241.088	4403.172	4599.293	4636.169
42.5	4148.858	4195.904	4360.217	4558.536	4596.567
43.0	4103.513	4151.360	4317.904	4518.099	4557.718
43.5	4056.708	4106.208	4274.259	4476.748	4517.377
44.0	4010.754	4061.023	4231.240	4435.782	4477.855
44.5	3963.708	4014.812	4186.520	4393.757	4437.129
45.0	3917.401	3968.938	4143.020	4352.614	4397.254
45.5	3870.901	3923.432	4099.391	4311.552	4357.362
46.0	3823.134	3876.403	4054.495	4268.565	4316.220
46.5	3776.490	3830.657	4010.802	4226.684	4275.302
47.0	3728.354	3783.339	3965.842	4183.505	4234.015
47.5	3681.549	3737.111	3921.924	4141.576	4193.353
48.0	3633.525	3689.537	3876.467	4098.140	4151.296
48.5	3586.143	3643.117	3832.180	4055.505	4110.009
49.0	3537.542	3595.029	3786.964	4012.133	4068.353
49.5	3490.047	3548.192	3742.340	3969.290	4027.018
50.0	3442.264	3501.420	3697.396	3926.255	3985.186
50.5	3394.032	3453.075	3652.484	3882.129	3944.011
51.0	3345.992	3405.773	3607.364	3839.463	3902.965
51.5	3296.749	3357.364	3561.842	3795.256	3860.860
52.0	3248.709	3309.886	3517.187	3752.398	3819.910
52.5	3199.515	3261.092	3471.329	3708.288	3778.013
53.0	3151.796	3213.806	3426.577	3665.782	3737.689
53.5	3102.264	3164.692	3380.638	3621.880	3695.664
54.0	3054.433	3117.053	3335.855	3579.117	3655.067
54.5	3006.377	3069.495	3291.264	3536.724	3614.871

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55.0	2956.926	3020.460	3245.277	3493.287	3573.423
55.5	2908.838	2972.581	3200.541	3451.070	3533.211
56.0	2859.595	2923.563	3154.731	3407.730	3491.731
56.5	2811.379	2875.747	3110.156	3365.946	3451.728
57.0	2762.296	2826.906	3064.330	3323.328	3410.794
57.5	2713.519	2778.705	3019.706	3281.768	3370.918
58.0	2664.212	2729.382	2973.928	3239.422	3329.968
58.5	2615.771	2681.455	2929.546	3198.151	3290.574
59.0	2567.266	2633.271	2885.484	3156.993	3251.292
59.5	2517.783	2584.365	2840.235	3115.642	3210.679
60.0	2469.294	2536.197	2796.526	3074.964	3171.477
60.5	2419.634	2486.842	2752.095	3033.597	3131.617
61.0	2370.904	2439.058	2709.060	2993.770	3092.881
61.5	2320.876	2389.784	2664.789	2952.643	3052.909
62.0	2272.178	2341.808	2621.722	2913.153	3014.157
62.5	2222.053	2292.677	2578.687	2872.315	2975.356
63.0	2173.083	2244.862	2536.373	2833.209	2936.651
63.5	2123.937	2197.207	2494.268	2793.927	2898.412
64.0	2074.405	2148.847	2452.484	2754.726	2860.317
64.5	2024.120	2100.871	2410.940	2715.540	2821.628
65.0	1975.166	2053.200	2369.252	2676.755	2784.079
65.5	1925.409	2005.914	2328.719	2638.516	2745.904
66.0	1874.691	1958.227	2287.304	2599.458	2708.097
66.5	1825.304	1911.567	2247.396	2562.069	2670.997
67.0	1775.580	1864.313	2206.992	2523.397	2632.854
67.5	1725.872	1818.182	2167.453	2486.104	2596.347
68.0	1677.239	1773.094	2128.909	2449.372	2560.096
68.5	1626.969	1726.786	2089.579	2411.935	2522.932
69.0	1577.967	1681.714	2051.516	2375.460	2486.633
69.5	1527.714	1636.080	2012.763	2338.135	2449.613
70.0	1478.824	1591.761	1975.101	2302.253	2413.779
70.5	1428.570	1546.497	1937.022	2265.281	2376.903
71.0	1379.536	1503.060	1900.195	2229.448	2340.894
71.5	1329.668	1458.645	1862.420	2192.973	2303.456
72.0	1281.002	1416.460	1826.266	2157.300	2267.302
72.5	1233.139	1374.275	1790.465	2121.723	2230.490
73.0	1183.624	1332.908	1754.327	2084.895	2192.684
73.5	1135.664	1291.862	1719.055	2048.629	2155.215
74.0	1086.838	1251.056	1683.334	2011.929	2116.350
74.5	1039.713	1211.662	1648.992	1975.021	2077.934
75.0	991.481	1172.027	1613.720	1936.637	2037.914
75.5	944.981	1133.884	1579.828	1898.943	1998.536
76.0	897.454	1095.468	1544.925	1859.726	1957.746
76.5	851.981	1058.496	1511.225	1821.182	1918.496
77.0	807.149	1022.518	1477.476	1782.445	1880.353
77.5	761.226	986.123	1442.605	1743.099	1842.836
78.0	717.437	951.060	1408.087	1705.678	1807.804
78.5	672.702	915.884	1372.414	1668.882	1772.837
79.0	629.955	881.895	1336.790	1634.380	1739.089
79.5	586.599	847.906	1299.497	1600.054	1705.661
80.0	545.055	814.928	1262.637	1567.830	1673.694
80.5	503.303	781.709	1225.167	1535.621	1640.844
81.0	463.508	749.982	1189.671	1504.488	1609.486
81.5	425.092	718.624	1155.971	1474.044	1578.320
82.0	386.307	687.186	1122.543	1443.536	1547.170
82.5	349.255	656.453	1090.656	1413.605	1516.261

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CANDELA TABULATION - (Cont.)

83.0	313.101	625.239	1058.576	1383.338	1484.839
83.5	278.599	594.843	1027.426	1353.936	1454.571
84.0	244.434	563.036	995.587	1323.476	1423.101
84.5	212.867	530.956	964.453	1293.257	1392.625
85.0	181.685	497.288	932.229	1261.883	1362.021
85.5	153.230	465.898	900.181	1228.728	1317.349
86.0	126.764	435.005	867.219	1176.919	1248.955
86.5	101.261	402.893	829.845	1102.525	1165.386
87.0	78.692	370.716	777.635	1021.940	1080.422
87.5	58.273	336.279	706.402	935.982	991.609
88.0	40.918	299.210	629.426	849.815	904.079
88.5	26.177	252.454	549.129	760.553	814.062
89.0	14.548	197.677	475.955	676.920	729.387
89.5	5.325	155.412	416.270	607.018	658.618
90.0	0.433	133.725	375.625	558.336	607.547
90.5	0.289	121.760	349.752	524.027	572.387
91.0	0.369	113.932	336.423	505.950	554.102
91.5	0.529	107.003	325.147	492.412	540.869
92.0	0.722	100.394	314.063	478.842	527.331
92.5	0.866	96.641	303.862	466.427	514.659
93.0	1.107	92.775	293.805	453.836	501.491
93.5	1.508	86.953	284.357	442.463	489.412
94.0	2.117	75.693	285.897	430.530	477.286
94.5	2.775	68.571	292.906	419.221	464.855
95.0	3.016	62.203	295.393	419.831	453.884
95.5	3.112	56.669	294.944	437.555	463.588
96.0	3.128	51.633	287.774	449.794	485.643
96.5	3.208	47.045	262.414	458.038	503.030
97.0	3.320	42.731	230.832	461.487	515.846
97.5	3.256	38.624	210.108	458.953	524.460
98.0	3.304	34.935	196.923	441.132	527.379
98.5	3.561	31.358	185.855	399.653	515.862
99.0	3.481	28.134	175.798	355.751	478.505
99.5	3.737	25.151	166.287	323.254	427.322
100.0	3.785	22.280	157.208	300.894	382.538
100.5	3.962	19.649	149.012	285.111	351.228
101.0	4.090	17.259	141.184	272.070	327.441
101.5	4.106	15.046	133.966	260.698	310.502
102.0	4.491	12.912	126.636	249.454	297.253
102.5	4.603	11.052	119.963	238.980	286.426
103.0	5.069	9.480	113.210	228.698	276.145
103.5	5.277	8.196	106.971	219.363	266.232
104.0	5.614	7.170	100.811	210.509	256.736
104.5	5.790	6.352	94.861	201.976	247.128
105.0	6.143	5.855	89.134	193.811	238.066
105.5	6.288	5.261	83.600	185.952	228.875
106.0	6.560	4.956	78.227	178.140	220.390
106.5	6.865	4.956	73.030	170.441	211.696
107.0	7.026	4.860	68.074	163.079	203.548
107.5	7.298	4.924	63.262	155.732	195.239
108.0	7.394	5.053	58.690	148.867	187.251
108.5	7.619	5.021	54.199	141.954	179.472
109.0	8.020	5.149	49.900	135.025	171.644
109.5	8.084	5.165	45.730	128.416	164.185
110.0	8.501	5.229	41.752	121.840	156.582
110.5	8.630	5.293	37.983	115.440	149.429

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CANDELA TABULATION - (Cont.)

111.0	8.950	5.373	34.358	109.120	142.082
111.5	9.079	5.518	30.973	103.121	135.249
112.0	9.383	5.550	27.669	97.154	128.352
112.5	9.528	5.694	24.653	91.428	121.776
113.0	9.881	5.806	21.927	85.910	115.376
113.5	10.105	5.919	19.328	80.328	108.767
114.0	10.346	6.015	16.970	75.067	102.688
114.5	10.554	6.304	14.949	69.870	96.545
115.0	11.003	6.496	13.249	64.962	90.786
115.5	11.260	6.528	11.918	60.086	84.996
116.0	11.501	6.721	10.795	55.643	79.671
116.5	11.773	7.090	9.800	51.119	74.249
117.0	11.998	7.250	9.014	46.885	69.084
117.5	12.303	7.459	8.613	42.875	64.272
118.0	12.736	7.779	8.277	38.913	59.524
118.5	12.960	7.988	8.116	35.144	54.793
119.0	13.121	8.116	8.164	31.711	50.317
119.5	13.586	8.357	8.116	28.455	46.067
120.0	13.955	8.742	8.357	25.279	42.073
120.5	14.340	8.950	8.453	22.568	38.207
121.0	14.693	9.191	8.646	20.339	34.454
121.5	15.062	9.496	8.854	18.382	31.069
122.0	15.447	9.816	9.111	16.714	28.102
122.5	15.864	10.073	9.399	15.302	24.990
123.0	16.056	10.314	9.688	14.195	22.488
123.5	16.617	10.635	9.881	13.329	20.339
124.0	17.018	10.971	10.314	12.495	18.462
124.5	17.548	11.292	10.458	12.078	17.131
125.0	17.788	11.661	10.891	11.789	15.864
125.5	18.334	11.870	11.132	11.741	14.949
126.0	18.783	12.255	11.501	11.789	14.051
126.5	19.120	12.495	11.773	11.854	13.490
127.0	19.633	12.800	12.158	12.030	13.233
127.5	19.922	13.057	12.527	12.222	13.153
128.0	20.194	13.233	12.752	12.640	13.089
128.5	20.676	13.522	13.105	12.960	13.121
129.0	21.157	13.762	13.570	13.393	13.297
129.5	21.526	13.875	13.778	13.554	13.409
130.0	21.895	14.195	14.195	13.891	13.794
130.5	22.167	14.420	14.452	14.292	14.195
131.0	22.472	14.548	14.725	14.564	14.532
131.5	22.889	14.949	15.094	14.901	14.821
132.0	23.066	15.302	15.350	15.142	15.222
132.5	23.322	15.591	15.639	15.479	15.414
133.0	23.627	16.024	15.928	15.687	15.799
133.5	23.916	16.409	16.152	15.831	15.992
134.0	24.076	16.682	16.473	16.120	16.329
134.5	24.220	17.291	16.714	16.216	16.521
135.0	24.381	17.628	16.778	16.345	16.730
135.5	24.557	18.173	17.067	16.537	16.601
136.0	24.878	18.687	17.131	16.650	16.778
136.5	24.942	19.264	17.307	16.810	16.746
137.0	25.199	19.633	17.468	16.778	16.938
137.5	25.391	20.323	17.532	16.938	16.826
138.0	25.391	20.900	17.580	17.067	17.018
138.5	25.568	21.397	17.756	17.018	17.002

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CANDELA TABULATION - (Cont.)

139.0	25.552	22.087	17.756	17.115	16.890
139.5	25.696	22.648	17.901	17.147	17.099
140.0	25.744	23.338	17.885	17.195	16.954
140.5	25.840	23.835	17.853	17.355	17.227
141.0	25.905	24.461	17.772	17.403	17.163
141.5	25.889	25.119	17.788	17.419	17.243
142.0	26.049	25.616	17.740	17.516	17.307
142.5	25.985	25.889	17.644	17.452	17.211
143.0	26.065	26.017	17.676	17.532	17.419
143.5	26.097	26.322	17.532	17.580	17.387
144.0	26.097	26.530	17.403	17.708	17.516
144.5	25.969	26.755	17.227	17.788	17.676
145.0	26.145	26.819	17.051	17.740	17.660
145.5	26.225	27.027	16.954	17.901	17.644
146.0	26.161	27.156	16.938	17.917	17.804
146.5	26.257	27.477	16.666	17.885	17.820
147.0	26.306	27.701	16.698	18.045	17.901
147.5	26.402	28.166	16.601	18.029	18.045
148.0	26.466	28.327	16.601	18.045	17.949
148.5	26.498	28.567	16.698	17.981	18.029
149.0	26.450	28.808	16.954	17.869	18.013
149.5	26.402	29.097	17.243	17.836	18.093
150.0	26.274	29.081	17.435	17.644	17.917
150.5	26.113	29.209	17.804	17.452	17.836
151.0	26.017	29.209	18.286	17.259	17.885
151.5	25.840	29.353	18.783	17.018	17.644
152.0	25.680	29.257	19.344	16.858	17.532
152.5	25.439	29.289	19.906	16.537	17.163
153.0	25.472	29.369	20.611	16.377	17.018
153.5	25.391	29.417	21.333	16.104	16.762
154.0	25.151	29.401	22.039	16.072	16.441
154.5	24.958	29.337	22.857	15.992	16.072
155.0	24.830	29.241	23.675	16.168	15.831
155.5	24.653	29.048	24.493	16.345	15.735
156.0	24.493	28.487	25.391	16.762	15.607
156.5	24.124	28.214	26.001	17.227	15.735
157.0	24.108	27.733	26.434	17.949	16.184
157.5	23.884	27.268	26.819	18.622	16.585
158.0	23.900	27.124	27.076	19.633	17.195
158.5	23.595	26.867	27.284	20.483	17.853
159.0	23.338	26.578	27.444	21.349	18.831
159.5	23.178	26.306	27.573	22.392	19.505
160.0	22.953	26.129	27.685	23.579	20.515
160.5	22.777	25.840	28.070	24.798	21.429
161.0	22.584	25.616	28.262	26.081	22.665
161.5	22.520	25.504	28.343	26.947	23.900
162.0	22.440	25.504	28.551	27.733	25.295
162.5	22.376	25.231	28.760	28.166	26.562
163.0	22.183	25.087	29.000	28.631	27.573
163.5	22.328	24.990	29.129	29.081	28.262
164.0	22.215	24.814	29.016	29.514	28.696
164.5	22.183	24.734	29.305	29.947	29.145
165.0	22.151	24.621	29.610	30.556	29.786
165.5	22.280	24.573	29.674	31.005	30.284
166.0	22.167	24.541	29.562	31.470	30.909
166.5	22.231	24.541	29.145	31.358	31.374

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CANDELA TABULATION - (Cont.)

167.0	22.392	24.541	28.615	30.155	31.823
167.5	22.424	24.493	28.022	29.401	32.673
168.0	22.536	24.525	27.477	29.257	33.347
168.5	22.600	24.413	26.803	29.145	33.620
169.0	22.632	24.413	26.354	29.016	33.876
169.5	22.841	24.413	26.065	28.840	33.636
170.0	22.809	24.429	25.889	28.519	32.962
170.5	22.681	24.285	25.568	28.214	32.369
171.0	22.953	24.156	25.183	27.621	31.599
171.5	23.001	24.156	24.846	27.172	30.893
172.0	22.937	23.980	24.333	26.578	30.284
172.5	23.017	23.932	23.996	26.065	29.866
173.0	22.969	23.900	23.515	25.455	28.904
173.5	23.098	23.851	23.210	24.878	28.150
174.0	23.001	23.803	22.745	24.397	27.300
174.5	23.098	23.643	22.424	23.964	26.530
175.0	23.194	23.627	22.199	23.851	25.680
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	2332.49	N.A.	11.90
0-30	4936.81	N.A.	25.20
0-40	8051.64	N.A.	41.20
0-60	14171.21	N.A.	72.50
0-80	18171.27	N.A.	92.90
0-90	19064.65	N.A.	97.50
10-90	18459.79	N.A.	94.40
20-40	5719.14	N.A.	29.20
20-50	8925.07	N.A.	45.60
40-70	8469.49	N.A.	43.30
60-80	4000.06	N.A.	20.50
70-80	1650.15	N.A.	8.40
80-90	893.38	N.A.	4.60
90-110	394.11	N.A.	2.00
90-120	430.22	N.A.	2.20
90-130	442.77	N.A.	2.30
90-150	469.56	N.A.	2.40
90-180	489.46	N.A.	2.50
110-180	95.35	N.A.	0.50
0-180	19554.11	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	604.87
10-20	1727.63
20-30	2604.32
30-40	3114.82
40-50	3205.93
50-60	2913.65
60-70	2349.92
70-80	1650.14
80-90	893.38
90-100	281.22
100-110	112.89
110-120	36.11
120-130	12.55
130-140	13.67
140-150	13.12
150-160	10.43
160-170	7.61
170-180	1.86

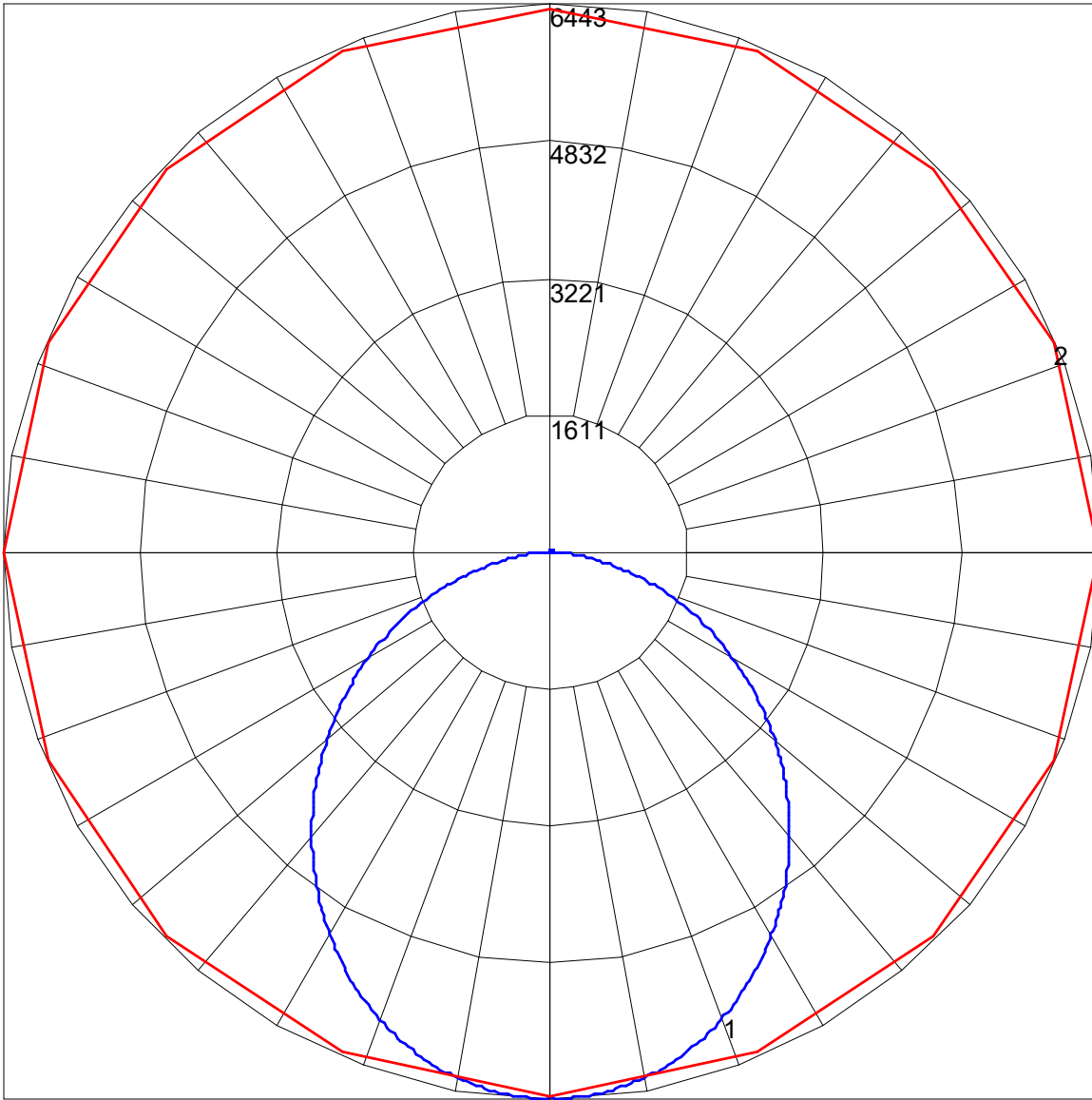
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	118	118	118	118	115	115	115	115	110	110	110	105	105	105	100	100	100	97
1	107	101	97	92	104	99	95	91	94	91	87	90	87	84	86	83	81	79
2	97	88	81	74	94	86	79	73	82	76	71	78	73	69	75	71	67	65
3	88	77	68	61	85	75	67	61	72	65	59	69	63	58	66	61	57	54
4	80	68	59	52	78	66	58	51	64	56	50	61	55	49	58	53	48	46
5	74	61	51	45	72	59	51	44	57	49	43	55	48	43	53	47	42	40
6	68	55	45	39	66	53	45	39	51	44	38	49	43	37	48	42	37	35
7	63	49	41	34	61	49	40	34	47	39	34	45	38	33	43	37	33	31
8	59	45	36	31	57	44	36	30	43	35	30	41	35	30	40	34	29	27
9	55	41	33	27	53	41	33	27	39	32	27	38	31	27	37	31	26	25
10	52	38	30	25	50	38	30	25	36	29	25	35	29	24	34	28	24	22

POLAR GRAPH



Maximum Candela = 6442.658 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.)