



IES INDOOR REPORT

PHOTOMETRIC FILENAME : GS-4-L240-850-HA-MD-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] 14629546.02
[TESTLAB] UL Verification Services Inc.
[ISSUE DATE] 2023-03-14
[TEST DATE] 1/5/2023
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMCAT] GS-4-L240-850-HA-MD-DIM-UNV
[LUMINAIRE] White aluminum housing, prismatic lense enclosure
[LAMP] 448 White LEDs
[BALLAST] ULT D21CC80UNVPW-C

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	23895
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	141
Total Luminaire Watts	169
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.28
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.36 ft
Luminous Width (90-270)	1.17 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	22540	21901	19151
55	17020	15962	13485
65	13224	11958	11128
75	12736	10402	11202
85	11386	7723	8581

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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	10802.712	10802.712	10802.712	10802.712	10802.712
0.5	10708.320	10792.224	10823.688	10802.712	10813.200
1.0	10708.320	10792.224	10823.688	10792.224	10813.200
1.5	10708.320	10792.224	10823.688	10792.224	10813.200
2.0	10697.832	10792.224	10813.200	10781.736	10802.712
2.5	10697.832	10781.736	10813.200	10781.736	10792.224
3.0	10687.344	10771.248	10802.712	10771.248	10781.736
3.5	10687.344	10771.248	10792.224	10760.760	10781.736
4.0	10676.856	10760.760	10781.736	10750.272	10771.248
4.5	10666.367	10750.272	10771.248	10739.784	10760.760
5.0	10666.367	10739.784	10771.248	10739.784	10750.272
5.5	10655.879	10729.296	10760.760	10729.296	10739.784
6.0	10645.391	10718.808	10750.272	10718.808	10729.296
6.5	10634.903	10718.808	10739.784	10708.320	10718.808
7.0	10624.415	10697.832	10729.296	10697.832	10708.320
7.5	10603.439	10687.344	10718.808	10687.344	10697.832
8.0	10592.951	10676.856	10708.320	10676.856	10687.344
8.5	10582.463	10666.367	10697.832	10666.367	10666.367
9.0	10561.487	10645.391	10676.856	10655.879	10655.879
9.5	10550.999	10634.903	10666.367	10634.903	10645.391
10.0	10530.023	10624.415	10655.879	10624.415	10624.415
10.5	10509.046	10603.439	10634.903	10603.439	10613.927
11.0	10498.558	10582.463	10613.927	10582.463	10592.951
11.5	10478.631	10561.487	10592.951	10561.487	10571.975
12.0	10459.752	10540.511	10571.975	10540.511	10550.999
12.5	10439.825	10519.534	10550.999	10519.534	10530.023
13.0	10417.800	10498.558	10530.023	10498.558	10509.046
13.5	10392.629	10470.241	10509.046	10472.338	10488.070
14.0	10367.457	10445.069	10476.533	10448.216	10463.948
14.5	10340.188	10418.849	10449.264	10423.044	10440.874
15.0	10311.871	10393.678	10421.995	10395.775	10416.751
15.5	10281.455	10365.360	10392.629	10368.506	10392.629
16.0	10251.040	10335.993	10361.165	10341.237	10365.360
16.5	10219.576	10305.578	10330.749	10312.919	10337.042
17.0	10187.063	10273.065	10298.236	10282.504	10306.627
17.5	10152.452	10238.454	10266.772	10252.089	10275.162
18.0	10116.793	10203.844	10235.308	10219.576	10242.649
18.5	10083.231	10168.184	10201.746	10186.014	10205.941
19.0	10047.571	10132.525	10168.184	10151.403	10171.331
19.5	10012.961	10094.768	10133.573	10115.744	10134.622
20.0	9976.252	10055.962	10093.719	10081.133	10100.012
20.5	9936.398	10014.009	10050.718	10046.522	10061.206
21.0	9895.494	9968.911	10003.521	10009.814	10023.449
21.5	9853.542	9923.812	9963.667	9969.960	9983.594
22.0	9809.492	9878.713	9921.714	9930.105	9943.739
22.5	9762.296	9830.468	9874.518	9887.104	9900.738
23.0	9714.051	9782.223	9825.224	9842.005	9854.591
23.5	9663.708	9732.929	9775.930	9794.809	9808.443
24.0	9610.219	9680.489	9723.490	9745.515	9761.247
24.5	9557.778	9627.000	9672.098	9694.123	9713.002
25.0	9503.240	9573.511	9620.707	9640.634	9662.659
25.5	9445.556	9515.826	9566.169	9585.047	9611.268
26.0	9388.920	9460.239	9511.631	9527.363	9555.681
26.5	9331.236	9400.457	9453.947	9469.679	9499.045

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CANDELA TABULATION - (Cont.)

27.0	9270.405	9341.724	9395.213	9408.848	9440.312
27.5	9208.526	9280.893	9334.383	9346.968	9379.481
28.0	9143.500	9217.965	9271.454	9281.942	9315.504
28.5	9078.474	9152.939	9205.379	9215.867	9248.380
29.0	9005.057	9085.815	9138.256	9146.646	9178.110
29.5	8934.787	9016.594	9069.034	9075.327	9104.694
30.0	8862.419	8945.275	8996.667	9000.862	9028.131
30.5	8786.905	8872.907	8921.153	8922.201	8946.324
31.0	8709.294	8798.442	8844.590	8836.199	8860.322
31.5	8630.633	8722.928	8763.832	8746.002	8769.076
32.0	8551.972	8647.414	8684.122	8663.146	8687.269
32.5	8469.117	8565.607	8600.218	8573.997	8597.071
33.0	8388.359	8483.800	8514.215	8476.458	8470.166
33.5	8303.405	8397.798	8424.018	8377.871	8353.748
34.0	8217.403	8308.649	8332.772	8272.990	8235.233
34.5	8132.450	8218.452	8238.379	8161.816	8112.522
35.0	8041.203	8127.206	8140.840	8047.496	7983.519
35.5	7949.957	8033.862	8039.106	7927.932	7847.174
36.0	7854.516	7936.323	7934.225	7803.124	7707.683
36.5	7756.977	7835.637	7824.100	7672.023	7562.947
37.0	7657.340	7732.854	7711.878	7538.825	7416.114
37.5	7555.606	7627.973	7596.509	7399.334	7266.135
38.0	7449.676	7522.044	7480.092	7259.842	7111.960
38.5	7341.649	7412.968	7359.479	7116.156	6957.786
39.0	7231.524	7302.843	7236.768	6969.323	6799.416
39.5	7118.253	7191.670	7110.912	6821.441	6642.095
40.0	7003.933	7078.399	6982.957	6672.510	6483.725
40.5	6886.467	6964.079	6851.856	6521.482	6323.258
41.0	6767.952	6847.661	6720.755	6371.503	6153.351
41.5	6650.485	6729.146	6587.557	6219.426	5979.249
42.0	6530.921	6609.582	6451.212	6070.495	5834.513
42.5	6411.357	6488.969	6316.965	5932.053	5689.778
43.0	6290.745	6367.307	6182.717	5782.073	5537.701
43.5	6170.132	6243.548	6048.470	5622.654	5383.526
44.0	6049.519	6119.789	5913.174	5478.968	5231.449
44.5	5929.955	5993.932	5777.878	5334.233	5084.616
45.0	5811.440	5867.026	5646.777	5192.644	4937.783
45.5	5690.827	5742.218	5513.579	5053.152	4794.097
46.0	5570.214	5617.410	5382.478	4916.807	4655.654
46.5	5452.748	5491.554	5254.523	4784.658	4521.407
47.0	5334.233	5367.794	5125.520	4654.606	4390.306
47.5	5215.717	5245.084	4999.663	4526.651	4264.449
48.0	5099.300	5122.374	4874.855	4402.892	4142.788
48.5	4982.882	5002.810	4751.096	4282.279	4024.273
49.0	4866.465	4884.294	4630.483	4162.715	3911.001
49.5	4748.998	4765.779	4511.968	4048.395	3801.925
50.0	4633.629	4649.362	4394.501	3936.173	3697.045
50.5	4520.358	4533.993	4278.084	3826.048	3594.262
51.0	4408.136	4420.722	4165.862	3721.167	3495.674
51.5	4294.865	4309.548	4053.639	3612.091	3402.330
52.0	4185.789	4199.423	3945.612	3513.504	3310.035
52.5	4075.664	4091.396	3842.829	3420.160	3221.935
53.0	3967.637	3984.418	3744.241	3327.865	3136.982
53.5	3861.707	3878.488	3636.214	3237.667	3054.126
54.0	3758.924	3774.656	3531.333	3149.567	2974.417
54.5	3658.239	3672.922	3432.745	3064.614	2896.805

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55.0	3559.651	3572.237	3338.353	2981.758	2820.242
55.5	3461.063	3472.600	3245.009	2901.000	2746.826
56.0	3367.719	3376.110	3153.763	2822.340	2675.507
56.5	3275.424	3280.668	3064.614	2746.826	2606.285
57.0	3184.178	3187.325	2977.563	2672.360	2538.113
57.5	3097.127	3096.078	2892.610	2599.993	2472.038
58.0	3013.223	3007.979	2809.754	2529.723	2408.061
58.5	2930.367	2920.928	2727.947	2461.550	2346.181
59.0	2849.609	2837.023	2648.238	2394.426	2286.399
59.5	2769.899	2754.167	2570.626	2329.400	2227.666
60.0	2694.385	2673.409	2495.112	2267.521	2172.079
60.5	2619.920	2596.846	2421.695	2205.641	2118.590
61.0	2547.552	2521.332	2349.328	2146.908	2065.101
61.5	2476.233	2447.916	2279.058	2089.224	2014.758
62.0	2408.061	2377.646	2210.885	2034.686	1966.513
62.5	2341.986	2309.473	2144.810	1981.196	1920.366
63.0	2276.960	2245.496	2079.784	1928.756	1876.316
63.5	2210.885	2184.665	2017.905	1878.413	1833.315
64.0	2135.371	2115.444	1958.123	1830.168	1792.411
64.5	2087.126	2056.711	1899.390	1784.021	1752.557
65.0	2037.832	2000.075	1842.754	1738.922	1714.799
65.5	1982.245	1944.488	1788.216	1695.921	1678.091
66.0	1930.854	1883.657	1735.776	1652.920	1642.432
66.5	1879.462	1830.168	1684.384	1612.016	1607.821
67.0	1831.217	1778.777	1634.041	1572.162	1574.259
67.5	1784.021	1728.434	1586.845	1533.356	1540.698
68.0	1738.922	1680.189	1540.698	1495.599	1508.185
68.5	1694.872	1632.993	1495.599	1458.891	1475.671
69.0	1652.920	1586.845	1451.549	1422.182	1444.207
69.5	1613.065	1541.746	1409.597	1386.523	1412.743
70.0	1573.211	1497.696	1367.644	1351.912	1382.328
70.5	1534.405	1454.695	1327.790	1316.253	1350.863
71.0	1496.648	1412.743	1286.886	1281.642	1320.448
71.5	1458.891	1370.791	1248.080	1247.032	1288.984
72.0	1423.231	1328.839	1209.274	1212.421	1257.520
72.5	1386.523	1287.935	1167.322	1176.761	1225.007
73.0	1350.863	1247.032	1129.565	1142.151	1192.494
73.5	1316.253	1206.128	1093.906	1105.443	1159.981
74.0	1281.642	1165.225	1056.149	1069.783	1126.419
74.5	1239.690	1124.321	1017.343	1033.075	1091.808
75.0	1201.933	1083.418	981.683	996.367	1057.197
75.5	1163.127	1043.563	946.024	958.610	1020.489
76.0	1123.272	1002.660	903.023	921.901	984.830
76.5	1083.418	961.756	864.217	884.144	947.073
77.0	1042.514	921.901	825.411	846.387	909.316
77.5	1001.611	880.998	786.605	808.630	870.510
78.0	958.610	841.143	748.848	769.824	830.655
78.5	914.560	800.240	710.042	732.067	790.800
79.0	871.559	760.385	672.285	694.310	749.897
79.5	828.558	719.482	632.431	655.504	708.994
80.0	784.508	679.627	594.674	617.747	668.090
80.5	740.458	639.772	556.917	579.990	626.138
81.0	696.408	599.918	519.159	542.233	585.234
81.5	653.407	561.112	481.402	505.525	543.282
82.0	610.406	523.355	444.694	468.817	502.379
82.5	567.405	484.549	407.986	433.157	462.524

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CANDELA TABULATION - (Cont.)

83.0	525.452	443.645	373.375	397.498	422.669
83.5	483.500	410.084	339.813	362.887	384.912
84.0	442.597	377.571	306.252	328.277	346.106
84.5	401.693	340.862	274.787	295.764	309.398
85.0	361.838	308.349	245.421	263.251	272.690
85.5	323.033	276.885	216.054	232.835	239.128
86.0	283.178	244.372	188.785	203.469	204.517
86.5	245.421	212.908	163.614	172.004	174.102
87.0	207.664	181.444	138.443	142.638	143.687
87.5	170.956	149.979	114.320	115.369	115.369
88.0	134.247	121.662	92.295	90.197	90.197
88.5	98.588	96.490	72.368	69.221	66.075
89.0	69.221	74.465	55.587	51.392	48.245
89.5	47.196	55.587	39.855	36.708	36.708
90.0	0.000	0.000	0.000	0.000	0.000
90.5	0.000	0.000	0.000	0.000	0.000
91.0	0.000	0.000	0.000	0.000	0.000
91.5	0.000	0.000	0.000	0.000	0.000
92.0	0.000	0.000	0.000	0.000	0.000
92.5	0.000	0.000	0.000	0.000	0.000
93.0	0.000	0.000	0.000	0.000	0.000
93.5	0.000	0.000	0.000	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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GS-4-L240-850-HA-MD-DIM-UNV_.IES

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
PHOTOMETRIC FILENAME : GS-4-L240-850-HA-MD-DIM-UNV_.IES

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
PHOTOMETRIC FILENAME : GS-4-L240-850-HA-MD-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	3954.29	N.A.	16.50
0-30	8371.34	N.A.	35.00
0-40	13385.24	N.A.	56.00
0-60	20596.12	N.A.	86.20
0-80	23567.81	N.A.	98.60
0-90	23894.93	N.A.	100.00
10-90	22873.61	N.A.	95.70
20-40	9430.96	N.A.	39.50
20-50	13692.45	N.A.	57.30
40-70	9081.39	N.A.	38.00
60-80	2971.69	N.A.	12.40
70-80	1101.17	N.A.	4.60
80-90	327.12	N.A.	1.40
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	23894.93	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1021.32
10-20	2932.97
20-30	4417.06
30-40	5013.9
40-50	4261.5
50-60	2949.38
60-70	1870.52
70-80	1101.17
80-90	327.12
90-100	0.00
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
PHOTOMETRIC FILENAME : GS-4-L240-850-HA-MD-DIM-UNV_.IES

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	106	102	99	107	104	100	97	99	97	94	95	93	91	92	90	88	86
2	101	94	88	83	99	92	86	82	89	84	80	85	81	78	82	79	76	74
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64
4	86	75	67	61	84	74	66	61	71	65	60	69	64	59	67	62	58	56
5	80	68	60	53	78	67	59	53	65	58	53	63	57	52	61	56	52	50
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44
7	69	56	48	42	67	56	48	42	54	47	42	53	46	42	51	46	41	40
8	64	52	44	38	63	51	43	38	50	43	38	49	42	38	47	42	37	36
9	60	48	40	35	59	47	40	35	46	39	34	45	39	34	44	38	34	32
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	30

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GS-4-L240-850-HA-MD-DIM-UNV_.IES

UGR TABLE - CORRECTED

Reflectances

Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

Room Size UGR Viewed Crosswise

X=2H	Y=2H	21.0	22.5	21.4	22.8	23.2	19.8	21.3	20.1	21.6	21.9
	3H	22.5	23.8	22.8	24.1	24.5	21.3	22.7	21.7	23.0	23.4
	4H	23.1	24.4	23.5	24.7	25.1	22.0	23.3	22.4	23.7	24.0
	6H	23.7	24.8	24.1	25.2	25.6	22.6	23.8	23.0	24.1	24.5
	8H	23.8	25.0	24.3	25.3	25.7	22.8	23.9	23.2	24.3	24.7
	12H	24.0	25.0	24.4	25.4	25.9	22.9	24.0	23.4	24.4	24.8

UGR Viewed Endwise

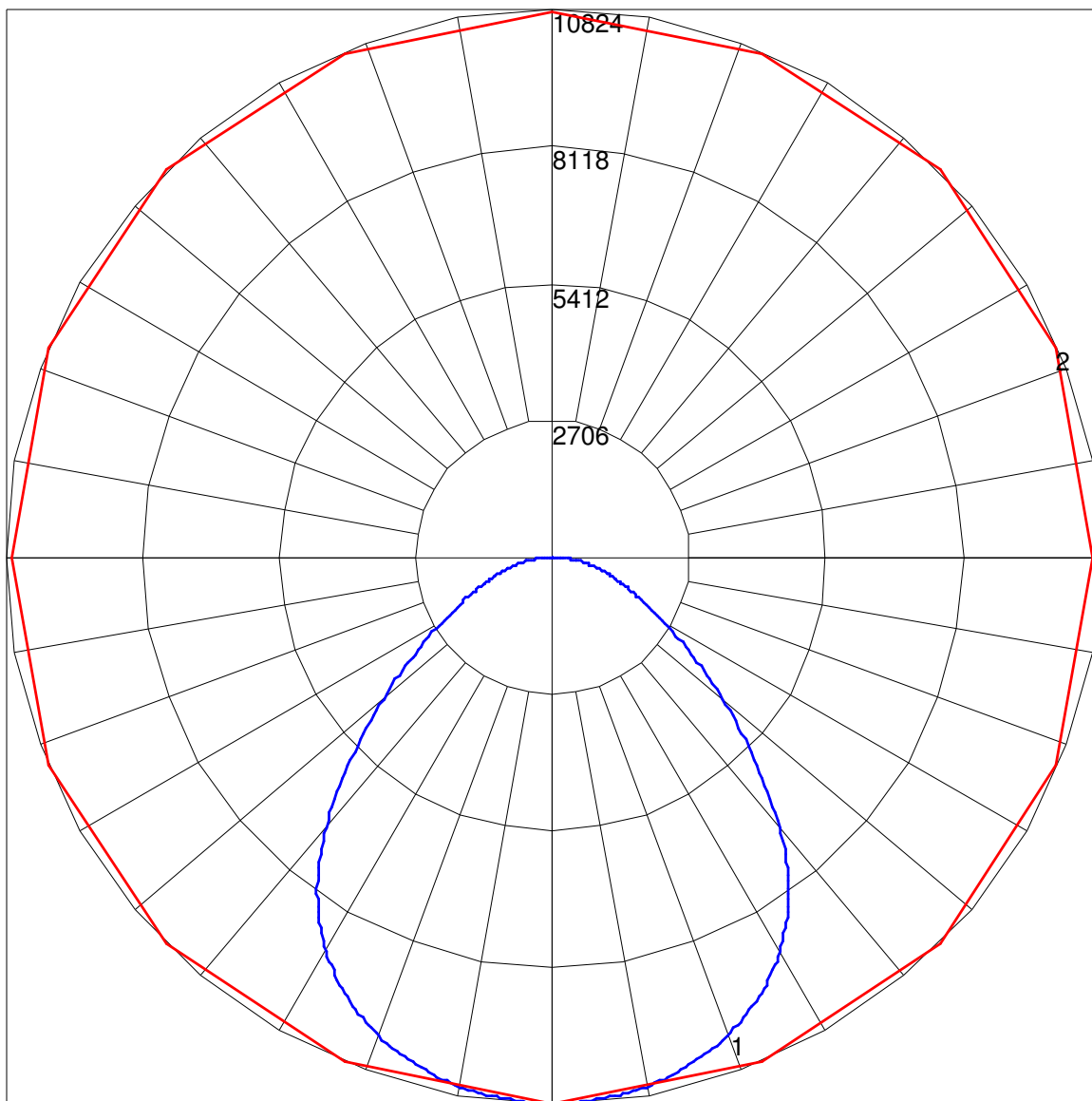
4H	2H	21.4	22.6	21.8	23.0	23.4	20.3	21.6	20.7	21.9	22.3
	3H	23.1	24.1	23.5	24.5	24.9	22.1	23.2	22.5	23.6	24.0
	4H	23.9	24.8	24.3	25.2	25.6	23.0	23.9	23.4	24.3	24.8
	6H	24.5	25.4	25.0	25.8	26.3	23.7	24.5	24.1	24.9	25.4
	8H	24.8	25.6	25.3	26.0	26.5	23.9	24.7	24.4	25.1	25.6
	12H	25.0	25.7	25.5	26.2	26.6	24.1	24.7	24.5	25.2	25.7

8H	4H	24.0	24.8	24.5	25.3	25.7	23.3	24.0	23.7	24.5	24.9
	6H	24.9	25.5	25.4	26.0	26.5	24.1	24.7	24.6	25.2	25.7
	8H	25.2	25.8	25.7	26.3	26.8	24.4	25.0	24.9	25.5	26.0
	12H	25.5	26.0	26.0	26.5	27.0	24.6	25.1	25.1	25.6	26.2

12H	4H	24.1	24.8	24.6	25.2	25.7	23.3	24.0	23.8	24.5	24.9
	6H	24.9	25.5	25.4	25.9	26.5	24.1	24.7	24.7	25.2	25.7
	8H	25.3	25.8	25.8	26.3	26.8	24.5	25.0	25.0	25.5	26.1

Maximum UGR = 27.0

POLAR GRAPH



Maximum Candela = 10823.688 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.)