



IES INDOOR REPORT

PHOTOMETRIC FILENAME : GS-4-L240-840-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-L240-840-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	23199
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	137
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	21883	21263	18594
55	16525	15497	13092
65	12839	11610	10804
75	12365	10099	10876
85	11054	7498	8331

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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	10488.068	10488.068	10488.068	10488.068	10488.068
0.5	10396.425	10477.886	10508.433	10488.068	10498.251
1.0	10396.425	10477.886	10508.433	10477.886	10498.251
1.5	10396.425	10477.886	10508.433	10477.886	10498.251
2.0	10386.242	10477.886	10498.251	10467.703	10488.068
2.5	10386.242	10467.703	10498.251	10467.703	10477.886
3.0	10376.060	10457.520	10488.068	10457.520	10467.703
3.5	10376.060	10457.520	10477.886	10447.338	10467.703
4.0	10365.877	10447.338	10467.703	10437.155	10457.520
4.5	10355.695	10437.155	10457.520	10426.973	10447.338
5.0	10355.695	10426.973	10457.520	10426.973	10437.155
5.5	10345.512	10416.790	10447.338	10416.790	10426.973
6.0	10335.329	10406.607	10437.155	10406.607	10416.790
6.5	10325.147	10406.607	10426.973	10396.425	10406.607
7.0	10314.964	10386.242	10416.790	10386.242	10396.425
7.5	10294.599	10376.060	10406.607	10376.060	10386.242
8.0	10284.416	10365.877	10396.425	10365.877	10376.060
8.5	10274.234	10355.695	10386.242	10355.695	10355.695
9.0	10253.869	10335.329	10365.877	10345.512	10345.512
9.5	10243.686	10325.147	10355.695	10325.147	10335.329
10.0	10223.321	10314.964	10345.512	10314.964	10314.964
10.5	10202.956	10294.599	10325.147	10294.599	10304.782
11.0	10192.773	10274.234	10304.782	10274.234	10284.416
11.5	10173.426	10253.869	10284.416	10253.869	10264.051
12.0	10155.097	10233.503	10264.051	10233.503	10243.686
12.5	10135.751	10213.138	10243.686	10213.138	10223.321
13.0	10114.367	10192.773	10223.321	10192.773	10202.956
13.5	10089.929	10165.280	10202.956	10167.317	10182.590
14.0	10065.491	10140.842	10171.390	10143.897	10159.171
14.5	10039.016	10115.385	10144.915	10119.458	10136.769
15.0	10011.523	10090.947	10118.440	10092.984	10113.349
15.5	9981.993	10063.454	10089.929	10066.509	10089.929
16.0	9952.464	10034.943	10059.381	10040.034	10063.454
16.5	9921.916	10005.413	10029.852	10012.541	10035.961
17.0	9890.350	9973.847	9998.286	9983.012	10006.432
17.5	9856.748	9940.245	9967.738	9953.482	9975.884
18.0	9822.127	9906.642	9937.190	9921.916	9944.318
18.5	9789.542	9872.021	9904.606	9889.332	9908.679
19.0	9754.922	9837.401	9872.021	9855.729	9875.076
19.5	9721.319	9800.743	9838.419	9821.109	9839.437
20.0	9685.680	9763.068	9799.725	9787.506	9805.835
20.5	9646.986	9722.337	9757.976	9753.903	9768.159
21.0	9607.274	9678.552	9712.155	9718.264	9731.502
21.5	9566.544	9634.767	9673.461	9679.571	9692.808
22.0	9523.777	9590.982	9632.731	9640.877	9654.114
22.5	9477.955	9544.142	9586.909	9599.128	9612.365
23.0	9431.115	9497.302	9539.051	9555.343	9567.562
23.5	9382.239	9449.444	9491.193	9509.521	9522.759
24.0	9330.308	9398.531	9440.280	9461.663	9476.937
24.5	9279.395	9346.600	9390.385	9411.768	9430.097
25.0	9226.445	9294.669	9340.490	9359.837	9381.221
25.5	9170.441	9238.664	9287.541	9305.869	9331.326
26.0	9115.455	9184.697	9234.591	9249.865	9277.358
26.5	9059.451	9126.656	9178.587	9193.861	9222.372

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CANDELA TABULATION - (Cont.)

27.0	9000.392	9069.633	9121.565	9134.802	9165.350
27.5	8940.314	9010.574	9062.506	9074.725	9106.291
28.0	8877.182	8949.479	9001.410	9011.593	9044.177
28.5	8814.050	8886.347	8937.260	8947.442	8979.008
29.0	8742.772	8821.178	8872.091	8880.237	8910.785
29.5	8674.549	8753.973	8804.886	8810.996	8839.507
30.0	8604.289	8684.731	8734.626	8738.699	8765.174
30.5	8530.974	8614.472	8661.311	8662.330	8685.750
31.0	8455.623	8542.175	8586.979	8578.832	8602.252
31.5	8379.254	8468.861	8508.573	8491.262	8513.664
32.0	8302.884	8395.546	8431.185	8410.820	8434.240
32.5	8222.442	8316.122	8349.724	8324.268	8346.669
33.0	8144.036	8236.697	8266.227	8229.570	8223.460
33.5	8061.557	8153.200	8178.657	8133.853	8110.433
34.0	7978.060	8066.648	8090.068	8032.027	7995.370
34.5	7895.581	7979.078	7998.425	7924.092	7876.234
35.0	7806.992	7890.489	7903.727	7813.102	7750.988
35.5	7718.404	7799.864	7804.956	7697.020	7618.614
36.0	7625.742	7705.166	7703.130	7575.847	7483.186
36.5	7531.044	7607.413	7596.213	7448.565	7342.666
37.0	7434.309	7507.624	7487.259	7319.246	7200.110
37.5	7335.538	7405.798	7375.250	7183.818	7054.499
38.0	7232.694	7302.954	7262.224	7048.389	6904.815
38.5	7127.813	7197.055	7145.124	6908.888	6755.131
39.0	7020.896	7090.138	7025.987	6766.331	6601.373
39.5	6910.924	6982.202	6903.796	6622.757	6448.635
40.0	6799.934	6872.230	6779.569	6478.164	6294.877
40.5	6685.889	6761.240	6652.286	6331.535	6139.084
41.0	6570.826	6648.213	6525.004	6185.924	5974.126
41.5	6456.781	6533.150	6395.685	6038.276	5805.095
42.0	6340.699	6417.069	6263.311	5893.683	5664.575
42.5	6224.618	6299.969	6132.974	5759.273	5524.055
43.0	6107.518	6181.851	6002.637	5613.662	5376.408
43.5	5990.418	6061.696	5872.300	5458.887	5226.724
44.0	5873.318	5941.542	5740.945	5319.385	5079.076
44.5	5757.237	5819.350	5609.589	5178.866	4936.520
45.0	5642.173	5696.141	5482.307	5041.401	4793.964
45.5	5525.074	5574.968	5352.988	4905.972	4654.462
46.0	5407.974	5453.795	5225.705	4773.598	4520.052
46.5	5293.929	5331.604	5101.478	4645.298	4389.715
47.0	5178.866	5211.450	4976.232	4519.034	4262.432
47.5	5063.802	5092.314	4854.041	4394.806	4140.241
48.0	4950.775	4973.177	4732.868	4274.651	4022.123
48.5	4837.749	4857.096	4612.713	4157.552	3907.060
49.0	4724.722	4742.032	4495.614	4041.470	3797.088
49.5	4610.677	4626.969	4380.550	3930.480	3691.189
50.0	4498.668	4513.942	4266.505	3821.526	3589.363
50.5	4388.696	4401.934	4153.479	3714.609	3489.574
51.0	4279.743	4291.962	4044.525	3612.783	3393.857
51.5	4169.771	4184.026	3935.571	3506.884	3303.232
52.0	4063.872	4077.109	3830.691	3411.168	3213.626
52.5	3956.955	3972.229	3730.901	3320.543	3128.092
53.0	3852.074	3868.366	3635.185	3230.936	3045.613
53.5	3749.230	3765.522	3530.304	3143.366	2965.170
54.0	3649.440	3664.714	3428.478	3057.832	2887.783
54.5	3551.688	3565.943	3332.762	2975.353	2812.431

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55.0	3455.971	3468.190	3241.119	2894.910	2738.099
55.5	3360.255	3371.456	3150.493	2816.505	2666.820
56.0	3269.630	3277.776	3061.905	2740.135	2597.579
56.5	3180.023	3185.114	2975.353	2666.820	2530.374
57.0	3091.434	3094.489	2890.837	2594.524	2464.187
57.5	3006.919	3005.901	2808.358	2524.264	2400.037
58.0	2925.458	2920.367	2727.916	2456.041	2337.923
58.5	2845.016	2835.851	2648.492	2389.854	2277.845
59.0	2766.610	2754.391	2571.104	2324.685	2219.805
59.5	2689.222	2673.948	2495.753	2261.553	2162.782
60.0	2615.907	2595.542	2422.438	2201.476	2108.814
60.5	2543.611	2521.209	2351.160	2141.399	2056.883
61.0	2473.351	2447.895	2280.900	2084.376	2004.952
61.5	2404.110	2376.617	2212.677	2028.372	1956.076
62.0	2337.923	2308.393	2146.490	1975.423	1909.236
62.5	2273.772	2242.206	2082.340	1923.491	1864.432
63.0	2210.640	2180.093	2019.208	1872.578	1821.665
63.5	2146.490	2121.034	1959.130	1823.702	1779.917
64.0	2073.175	2053.829	1901.090	1776.862	1740.205
64.5	2026.336	1996.806	1844.067	1732.059	1701.511
65.0	1978.477	1941.820	1789.081	1688.274	1664.854
65.5	1924.510	1887.852	1736.132	1646.525	1629.214
66.0	1874.615	1828.793	1685.219	1604.776	1594.594
66.5	1824.720	1776.862	1635.324	1565.064	1560.991
67.0	1777.880	1726.967	1586.448	1526.370	1528.407
67.5	1732.059	1678.091	1540.626	1488.695	1495.823
68.0	1688.274	1631.251	1495.823	1452.037	1464.257
68.5	1645.507	1585.429	1452.037	1416.398	1432.690
69.0	1604.776	1540.626	1409.271	1380.759	1402.143
69.5	1566.082	1496.841	1368.540	1346.138	1371.595
70.0	1527.389	1454.074	1327.810	1312.536	1342.065
70.5	1489.713	1412.325	1289.116	1277.915	1311.518
71.0	1453.056	1371.595	1249.404	1244.313	1281.988
71.5	1416.398	1330.865	1211.728	1210.710	1251.440
72.0	1381.778	1290.134	1174.053	1177.107	1220.893
72.5	1346.138	1250.422	1133.322	1142.487	1189.327
73.0	1311.518	1210.710	1096.665	1108.884	1157.761
73.5	1277.915	1170.998	1062.044	1073.245	1126.195
74.0	1244.313	1131.286	1025.387	1038.624	1093.610
74.5	1203.582	1091.574	987.711	1002.985	1060.008
75.0	1166.925	1051.862	953.090	967.346	1026.405
75.5	1129.249	1013.168	918.470	930.689	990.766
76.0	1090.555	973.456	876.721	895.050	956.145
76.5	1051.862	933.744	839.045	858.392	919.488
77.0	1012.149	895.050	801.370	821.735	882.831
77.5	972.437	855.338	763.694	785.078	845.155
78.0	930.689	816.644	727.037	747.402	806.461
78.5	887.922	776.932	689.361	710.745	767.767
79.0	846.173	738.238	652.704	674.087	728.055
79.5	804.425	698.526	614.010	636.412	688.343
80.0	761.658	659.832	577.353	599.755	648.631
80.5	718.891	621.138	540.696	563.097	607.901
81.0	676.124	582.444	504.038	526.440	568.189
81.5	634.375	544.769	467.381	490.801	527.458
82.0	592.627	508.111	431.742	455.162	487.746
82.5	550.878	470.436	396.103	420.541	449.052

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CANDELA TABULATION - (Cont.)

83.0	510.148	430.724	362.500	385.920	410.358
83.5	469.417	398.139	329.916	352.318	373.701
84.0	429.705	366.573	297.332	318.715	336.025
84.5	389.993	330.934	266.784	287.149	300.386
85.0	351.299	299.368	238.273	255.583	264.747
85.5	313.624	268.820	209.761	226.054	232.163
86.0	274.930	237.254	183.287	197.542	198.561
86.5	238.273	206.707	158.848	166.994	169.031
87.0	201.615	176.159	134.410	138.483	139.501
87.5	165.976	145.611	110.990	112.008	112.008
88.0	130.337	118.118	89.607	87.570	87.570
88.5	95.716	93.680	70.260	67.205	64.150
89.0	67.205	72.296	53.968	49.895	46.840
89.5	45.822	53.968	38.694	35.639	35.639
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-L240-840-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-L240-840-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-L240-840-HA-MD-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	3839.11	N.A.	16.50
0-30	8127.52	N.A.	35.00
0-40	12995.38	N.A.	56.00
0-60	19996.23	N.A.	86.20
0-80	22881.36	N.A.	98.60
0-90	23198.95	N.A.	100.00
10-90	22207.38	N.A.	95.70
20-40	9156.27	N.A.	39.50
20-50	13293.64	N.A.	57.30
40-70	8816.88	N.A.	38.00
60-80	2885.13	N.A.	12.40
70-80	1069.1	N.A.	4.60
80-90	317.59	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	23198.95	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	991.57
10-20	2847.54
20-30	4288.4
30-40	4867.86
40-50	4137.38
50-60	2863.47
60-70	1816.04
70-80	1069.1
80-90	317.59
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-L240-840-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-L240-840-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	20.9	22.4	21.3	22.7	23.1	19.7	21.2	20.0	21.5	21.8
	3H	22.4	23.7	22.7	24.0	24.4	21.2	22.6	21.6	22.9	23.3
	4H	23.0	24.3	23.4	24.6	25.0	21.9	23.2	22.3	23.6	23.9
	6H	23.6	24.7	24.0	25.1	25.5	22.5	23.7	22.9	24.0	24.4
	8H	23.7	24.9	24.2	25.2	25.6	22.7	23.8	23.1	24.2	24.6
	12H	23.9	24.9	24.3	25.3	25.8	22.8	23.9	23.3	24.3	24.7

UGR Viewed Endwise

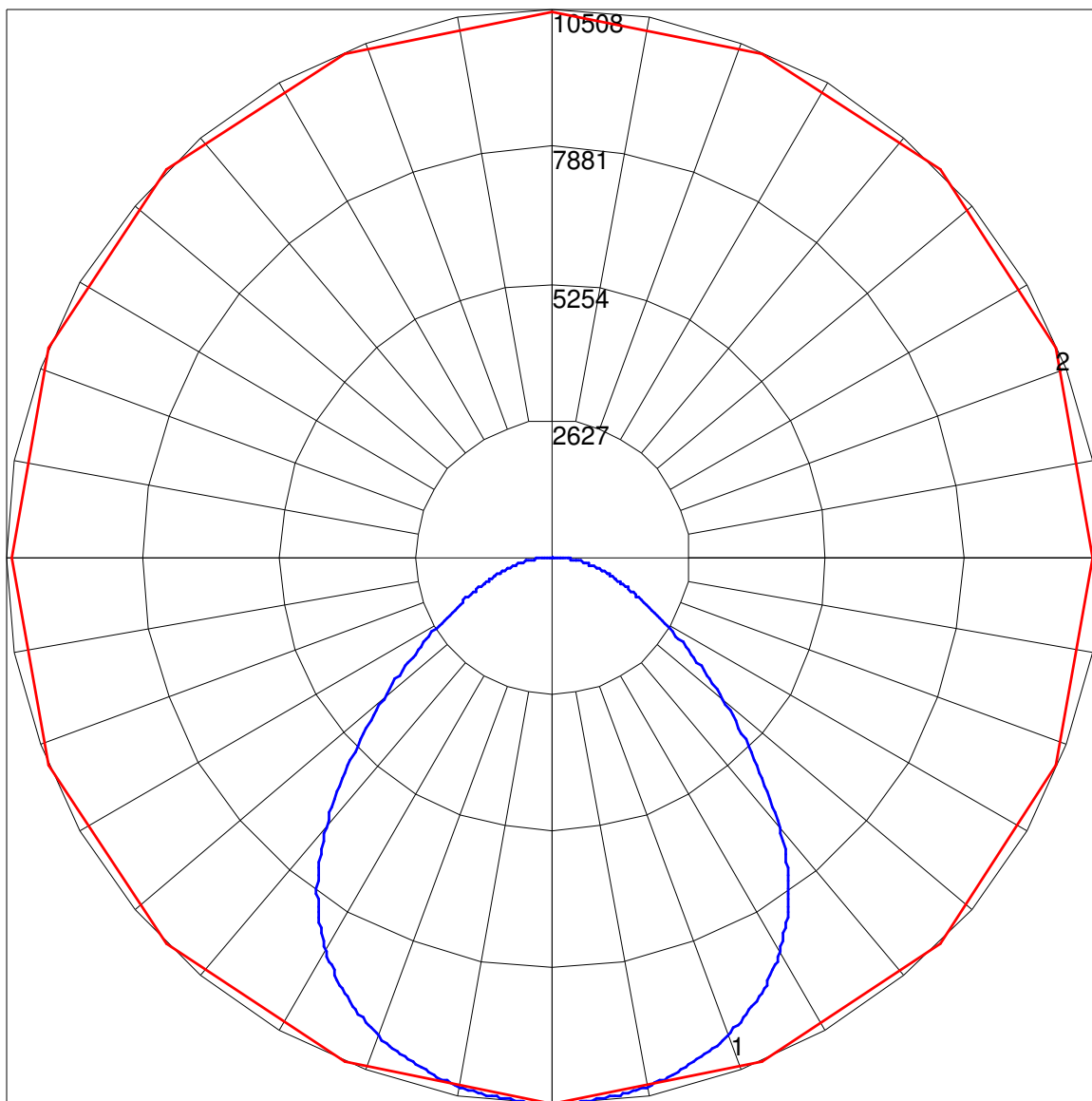
4H	2H	21.3	22.5	21.7	22.9	23.3	20.2	21.5	20.6	21.8	22.2
	3H	23.0	24.0	23.4	24.4	24.8	22.0	23.1	22.4	23.5	23.9
	4H	23.8	24.7	24.2	25.1	25.5	22.9	23.8	23.3	24.2	24.7
	6H	24.4	25.3	24.9	25.7	26.2	23.6	24.4	24.0	24.8	25.3
	8H	24.7	25.5	25.2	25.9	26.4	23.8	24.6	24.3	25.0	25.5
	12H	24.9	25.6	25.4	26.1	26.5	24.0	24.6	24.4	25.1	25.6

8H	4H	23.9	24.7	24.4	25.2	25.6	23.2	23.9	23.6	24.4	24.8
	6H	24.8	25.4	25.3	25.9	26.4	24.0	24.6	24.5	25.1	25.6
	8H	25.1	25.7	25.6	26.2	26.7	24.3	24.9	24.8	25.4	25.9
	12H	25.4	25.9	25.9	26.4	26.9	24.5	25.0	25.0	25.5	26.1

12H	4H	24.0	24.7	24.5	25.1	25.6	23.2	23.9	23.7	24.4	24.8
	6H	24.8	25.4	25.3	25.8	26.4	24.0	24.6	24.6	25.1	25.6
	8H	25.2	25.7	25.7	26.2	26.7	24.4	24.9	24.9	25.4	26.0

Maximum UGR = 26.9

POLAR GRAPH



Maximum Candela = 10508.433 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.)