



IES INDOOR REPORT
PHOTOMETRIC FILENAME : GS-2-L180-840-HA-HE-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] 14617179.01
[TESTLAB] UL Verification Services Inc.
[ISSUE DATE] 2023-03-13
[TEST DATE] 1/6/2023
[MANUFAC] H E Williams Inc
[LUMCAT] GS-2-L180-840-HA-HE-DIM-UNV
[LUMINAIRE] White aluminum housing, prismatic lense enclosure
[LAMP] 448 White LEDs
[BALLAST] ULT D21CC80UNVPW-C
[OTHER] 24.9 C, 120.004 V, 1.44538 A, 173.17 W, 0.998374 PF, 59.9997 H
[OTHER] This test was performed using the calibrated photodetector met
[MORE] hod of absolute photometry.
[FILEGENINFO] 1.10000

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	18722
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	161
Total Luminaire Watts	116
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	1.30
Spacing Criterion (Diagonal)	1.42
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.67 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	37354	38510	39207
55	35753	37193	26752
65	32430	22683	7353
75	26549	7298	7392
85	11640	10005	9317

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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	7097.124	7097.124	7097.124	7097.124	7097.124
0.5	7009.450	7101.582	7117.185	7106.040	7120.157
1.0	7011.679	7102.325	7117.928	7106.040	7119.414
1.5	7014.651	7101.582	7118.671	7103.811	7117.185
2.0	7013.908	7103.068	7117.185	7104.554	7117.928
2.5	7012.422	7101.582	7117.928	7103.068	7115.699
3.0	7011.679	7098.610	7116.442	7103.811	7117.185
3.5	7009.450	7094.152	7115.699	7103.811	7117.185
4.0	7004.249	7091.923	7113.470	7106.783	7118.671
4.5	6997.562	7087.465	7110.498	7108.269	7120.157
5.0	6988.646	7082.264	7108.269	7106.783	7117.928
5.5	6981.959	7077.806	7105.297	7104.554	7114.956
6.0	6976.758	7073.348	7101.582	7099.353	7109.012
6.5	6969.328	7066.661	7097.867	7094.152	7100.839
7.0	6959.669	7059.231	7090.437	7086.722	7091.180
7.5	6951.496	7052.544	7083.750	7077.063	7080.778
8.0	6944.066	7044.371	7074.091	7066.661	7071.119
8.5	6940.351	7035.455	7065.175	7056.259	7063.689
9.0	6934.407	7025.796	7055.516	7045.857	7054.773
9.5	6926.234	7018.366	7047.343	7038.427	7048.086
10.0	6917.318	7011.679	7038.427	7029.511	7039.170
10.5	6909.145	7004.249	7028.025	7018.366	7028.768
11.0	6900.229	6996.819	7016.137	7005.735	7017.623
11.5	6892.799	6988.646	7004.249	6993.847	7000.534
12.0	6878.682	6978.244	6994.590	6978.244	6978.244
12.5	6863.079	6967.842	6981.216	6957.440	6960.412
13.0	6847.476	6955.954	6967.099	6936.636	6941.094
13.5	6831.130	6939.608	6952.982	6918.804	6919.547
14.0	6813.298	6924.005	6938.122	6898.743	6899.486
14.5	6789.522	6908.402	6920.290	6878.682	6882.397
15.0	6772.433	6892.799	6903.201	6858.621	6869.023
15.5	6762.774	6875.710	6883.140	6839.303	6855.649
16.0	6748.657	6856.392	6863.079	6822.214	6839.303
16.5	6733.797	6838.560	6839.303	6805.125	6824.443
17.0	6724.138	6819.985	6818.499	6788.036	6807.354
17.5	6708.535	6802.153	6796.209	6768.718	6791.008
18.0	6690.703	6781.349	6772.433	6750.886	6771.690
18.5	6671.385	6761.288	6751.629	6729.339	6746.428
19.0	6648.353	6741.970	6725.624	6707.049	6722.652
19.5	6623.091	6721.909	6701.105	6685.502	6703.334
20.0	6599.315	6701.848	6677.329	6662.470	6682.530
20.5	6576.282	6680.301	6655.783	6640.180	6661.727
21.0	6553.992	6657.269	6633.493	6619.376	6639.437
21.5	6527.987	6634.236	6610.460	6598.572	6614.918
22.0	6502.725	6611.203	6587.427	6576.282	6590.399
22.5	6481.178	6586.684	6562.908	6553.249	6568.109
23.0	6459.631	6561.422	6535.417	6526.501	6541.361
23.5	6438.084	6533.188	6508.669	6502.725	6517.585
24.0	6411.336	6507.926	6479.692	6478.949	6491.580
24.5	6388.303	6482.664	6449.972	6452.201	6467.061
25.0	6363.041	6451.458	6418.023	6427.682	6438.827
25.5	6334.064	6425.453	6389.789	6400.191	6412.079
26.0	6300.629	6399.448	6362.298	6372.700	6382.359
26.5	6264.222	6365.270	6335.550	6343.723	6353.382

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CANDELA TABULATION - (Cont.)

27.0	6230.787	6331.835	6306.573	6315.489	6324.405
27.5	6198.095	6296.914	6279.825	6287.255	6296.171
28.0	6166.889	6261.993	6250.848	6260.507	6267.937
28.5	6140.141	6227.072	6220.385	6231.530	6237.474
29.0	6110.421	6192.894	6189.179	6197.352	6207.754
29.5	6080.702	6158.716	6157.973	6166.146	6181.006
30.0	6050.982	6120.823	6124.538	6133.454	6149.800
30.5	6021.262	6085.903	6094.075	6100.019	6121.566
31.0	5989.313	6047.267	6063.613	6068.814	6090.361
31.5	5953.649	6009.374	6031.664	6036.865	6059.155
32.0	5916.499	5975.196	5998.229	6004.173	6026.463
32.5	5877.863	5938.789	5966.280	5975.196	5992.285
33.0	5837.741	5903.125	5937.303	5943.247	5961.079
33.5	5799.105	5865.232	5903.868	5910.555	5932.845
34.0	5759.726	5825.110	5867.461	5876.377	5900.153
34.5	5722.576	5785.731	5830.311	5842.199	5865.975
35.0	5688.398	5744.866	5789.446	5808.764	5829.568
35.5	5656.449	5704.001	5742.637	5773.843	5796.876
36.0	5617.813	5660.164	5704.744	5738.922	5762.698
36.5	5577.691	5616.327	5668.337	5702.515	5726.291
37.0	5531.625	5572.490	5628.215	5666.851	5690.627
37.5	5481.845	5529.396	5587.350	5631.187	5652.734
38.0	5434.293	5487.046	5550.943	5594.037	5613.355
38.5	5385.998	5443.952	5516.022	5555.401	5570.261
39.0	5343.647	5400.858	5475.158	5513.793	5530.139
39.5	5303.525	5354.792	5429.835	5469.957	5490.761
40.0	5261.917	5306.497	5384.512	5428.349	5449.896
40.5	5218.823	5258.202	5341.418	5385.998	5411.260
41.0	5178.701	5209.907	5297.581	5339.932	5371.881
41.5	5129.663	5160.869	5250.772	5297.581	5326.558
42.0	5075.424	5112.574	5203.220	5252.258	5280.492
42.5	5016.727	5063.536	5154.925	5206.935	5235.169
43.0	4959.516	5013.755	5108.859	5161.612	5191.332
43.5	4906.021	4961.002	5061.307	5115.546	5148.238
44.0	4858.469	4911.222	5018.213	5070.966	5108.116
44.5	4819.090	4862.184	4972.147	5030.844	5065.022
45.0	4778.225	4810.174	4926.082	4989.236	5015.241
45.5	4733.645	4759.650	4876.301	4939.455	4969.918
46.0	4680.892	4707.640	4820.576	4884.474	4920.881
46.5	4626.653	4653.401	4761.879	4839.151	4874.072
47.0	4569.442	4601.391	4712.098	4792.342	4828.749
47.5	4518.175	4551.610	4662.317	4743.304	4780.454
48.0	4471.366	4503.315	4609.564	4696.495	4730.673
48.5	4425.300	4459.478	4557.554	4650.429	4671.233
49.0	4376.262	4399.295	4508.516	4602.877	4595.447
49.5	4323.510	4335.398	4460.221	4555.325	4507.773
50.0	4257.383	4281.902	4409.697	4504.058	4402.267
50.5	4197.200	4235.093	4355.458	4449.076	4273.729
51.0	4140.732	4179.368	4301.220	4382.206	4125.872
51.5	4091.694	4125.129	4244.752	4300.477	3983.959
52.0	4044.885	4066.432	4191.256	4205.373	3869.537
52.5	3991.389	4009.964	4137.017	4082.035	3761.060
53.0	3929.720	3949.038	4081.292	3940.865	3598.343
53.5	3866.565	3892.570	4027.796	3793.751	3379.158
54.0	3807.868	3841.303	3971.328	3669.671	3128.768
54.5	3758.831	3784.835	3914.117	3562.679	2921.471

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55.0	3709.793	3718.709	3859.135	3428.939	2775.843
55.5	3647.381	3657.783	3802.667	3238.731	2665.136
56.0	3579.768	3608.745	3747.686	3001.715	2557.402
56.5	3523.300	3556.735	3691.961	2781.044	2422.919
57.0	3475.748	3498.781	3633.264	2625.014	2286.950
57.5	3422.252	3434.140	3568.623	2513.565	2174.014
58.0	3360.583	3370.985	3499.524	2422.919	2104.172
58.5	3291.484	3310.802	3414.822	2312.212	2060.335
59.0	3235.759	3252.105	3317.489	2160.640	2023.929
59.5	3181.521	3188.951	3206.782	2035.073	1972.662
60.0	3111.679	3122.824	3076.015	1960.774	1904.306
60.5	3044.809	3066.356	2958.621	1916.937	1817.375
61.0	2984.626	3004.687	2847.914	1879.787	1709.640
61.5	2931.873	2940.789	2719.375	1825.548	1595.961
62.0	2868.718	2873.176	2579.692	1755.706	1482.282
62.5	2790.703	2804.820	2399.143	1664.317	1331.454
63.0	2722.347	2746.123	2195.561	1550.638	1104.839
63.5	2668.108	2688.169	2030.615	1440.675	922.061
64.0	2601.982	2620.556	1918.423	1330.711	813.584
64.5	2538.827	2561.117	1832.978	1167.251	714.096
65.0	2479.387	2500.191	1734.159	953.267	562.153
65.5	2400.629	2431.092	1610.078	805.411	487.110
66.0	2333.759	2367.194	1506.058	715.136	470.318
66.5	2275.805	2309.240	1443.647	582.139	462.591
67.0	2212.650	2244.599	1394.609	487.853	455.830
67.5	2146.523	2180.701	1343.342	453.749	449.143
68.0	2078.167	2122.747	1277.215	444.388	442.902
68.5	2018.728	2054.391	1183.597	436.958	436.809
69.0	1960.774	1992.723	1076.605	430.048	430.716
69.5	1896.133	1929.568	985.216	423.584	424.475
70.0	1832.978	1870.871	859.650	417.417	418.308
70.5	1772.052	1804.001	698.567	411.101	412.364
71.0	1718.556	1734.159	594.770	405.232	406.420
71.5	1656.887	1661.345	516.458	399.362	399.733
72.0	1595.218	1584.073	426.853	392.749	393.269
72.5	1534.292	1485.254	382.570	386.434	386.359
73.0	1477.081	1381.978	371.054	380.044	378.855
73.5	1419.871	1293.561	363.401	373.208	371.276
74.0	1362.660	1199.943	355.896	365.853	362.955
74.5	1306.192	1097.409	348.838	357.902	354.708
75.0	1243.037	966.641	341.705	349.804	346.089
75.5	1185.083	875.252	334.870	341.482	337.099
76.0	1127.129	808.383	328.257	332.863	327.960
76.5	1065.460	735.272	321.124	324.022	318.524
77.0	1003.791	657.702	313.991	314.957	309.162
77.5	941.379	607.179	306.338	305.818	299.503
78.0	871.537	545.584	298.388	296.382	289.844
78.5	813.584	468.461	289.844	286.500	279.888
79.0	762.317	408.946	281.225	276.841	270.154
79.5	709.118	322.833	272.383	267.182	260.198
80.0	655.399	277.510	263.244	257.226	250.019
80.5	601.606	235.085	254.106	246.973	239.989
81.0	546.996	220.671	244.595	236.794	230.924
81.5	493.128	211.680	234.639	226.763	222.231
82.0	444.610	202.319	224.237	216.584	210.640
82.5	401.294	192.882	213.835	206.479	200.387

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CANDELA TABULATION - (Cont.)

83.0	354.708	183.669	202.764	196.077	190.431
83.5	309.236	174.085	191.768	185.824	180.251
84.0	265.325	164.277	180.400	175.125	169.775
84.5	224.311	153.875	169.255	163.980	158.853
85.0	183.521	143.399	157.739	151.943	146.891
85.5	162.345	132.254	145.405	139.015	134.631
86.0	139.089	120.737	132.402	125.418	121.332
86.5	105.283	108.701	117.840	110.707	107.883
87.0	87.600	96.144	102.385	95.327	93.246
87.5	76.455	83.067	85.891	79.724	77.495
88.0	65.384	68.727	69.396	62.560	59.811
88.5	53.273	53.273	52.604	43.986	40.568
89.0	38.933	38.413	35.813	28.531	26.228
89.5	24.370	25.782	23.033	19.541	18.946
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-2-L180-840-HA-HE-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-2-L180-840-HA-HE-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-2-L180-840-HA-HE-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2614.05	N.A.	14.00
0-30	5575.33	N.A.	29.80
0-40	9186.99	N.A.	49.10
0-60	16133.00	N.A.	86.20
0-80	18553.58	N.A.	99.10
0-90	18722.11	N.A.	100.00
10-90	18048.03	N.A.	96.40
20-40	6572.94	N.A.	35.10
20-50	10352.32	N.A.	55.30
40-70	8693.19	N.A.	46.40
60-80	2420.57	N.A.	12.90
70-80	673.39	N.A.	3.60
80-90	168.54	N.A.	0.90
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	18722.11	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	674.08
10-20	1939.97
20-30	2961.28
30-40	3611.67
40-50	3779.37
50-60	3166.64
60-70	1747.19
70-80	673.39
80-90	168.54
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-2-L180-840-HA-HE-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	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	63
4	85	73	65	59	82	72	64	58	70	63	57	67	61	57	65	60	56	54
5	78	66	57	51	76	65	57	50	62	55	50	61	54	49	59	53	49	47
6	72	59	51	44	70	58	50	44	57	49	44	55	48	43	53	48	43	41
7	67	54	45	39	65	53	45	39	51	44	39	50	43	39	49	43	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	35	45	39	34	32
9	58	45	37	32	57	44	37	31	43	36	31	42	36	31	41	35	31	29
10	54	41	34	29	53	41	34	29	40	33	28	39	33	28	38	32	28	26

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GS-2-L180-840-HA-HE-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	25.0	26.6	25.4	26.9	27.2	22.6	24.2	23.0	24.5	24.8
	3H	26.7	28.1	27.1	28.4	28.8	22.7	24.1	23.1	24.5	24.8
	4H	27.2	28.6	27.6	28.9	29.3	22.8	24.1	23.2	24.5	24.9
	6H	27.5	28.7	27.9	29.1	29.5	22.9	24.2	23.4	24.5	24.9
	8H	27.6	28.7	28.0	29.1	29.5	23.0	24.2	23.4	24.6	25.0
	12H	27.6	28.7	28.0	29.1	29.5	23.1	24.2	23.5	24.6	25.0

UGR Viewed Endwise

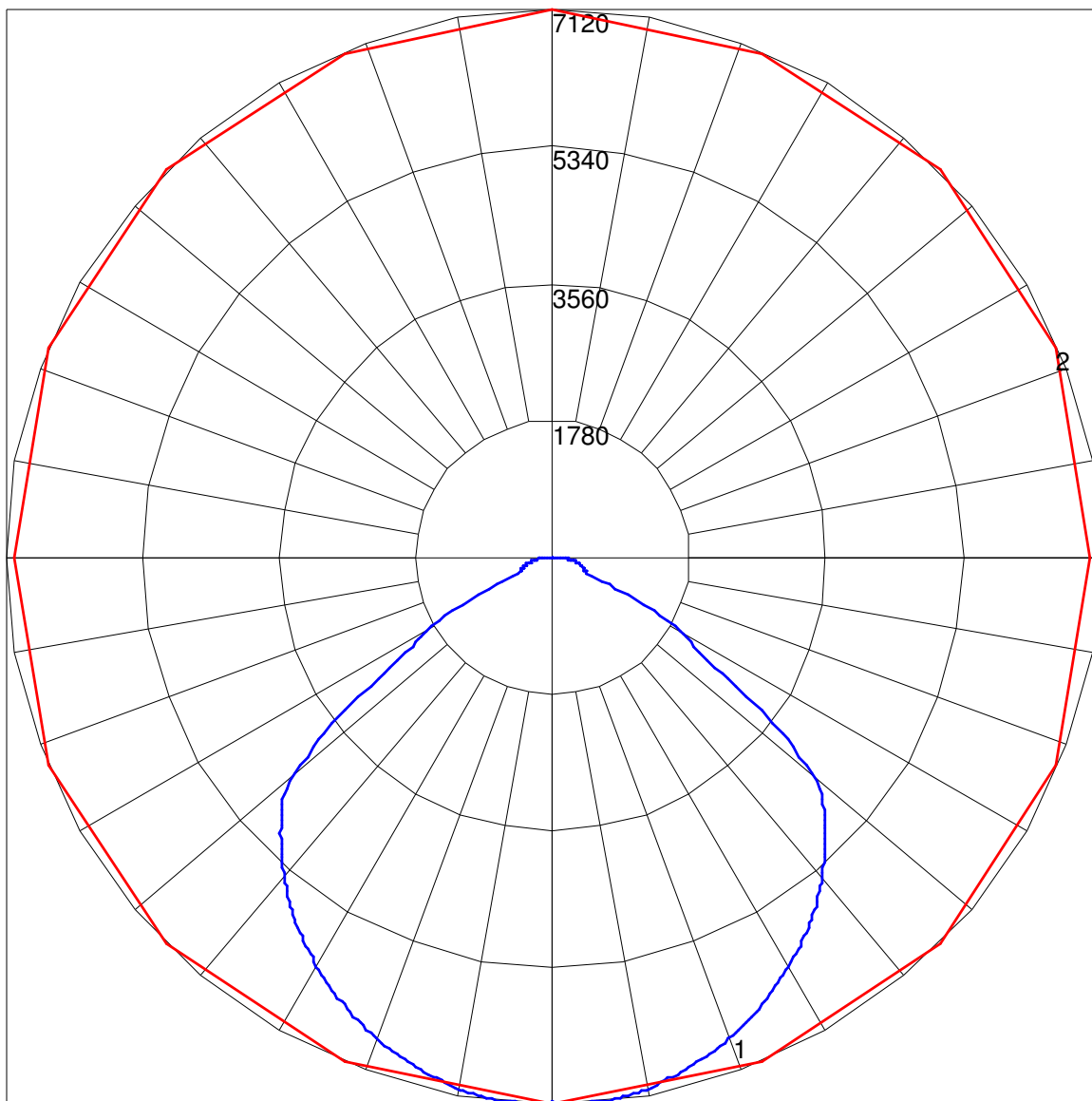
4H	2H	25.3	26.6	25.7	26.9	27.3	23.2	24.6	23.6	24.9	25.3
	3H	27.1	28.2	27.5	28.6	29.0	23.4	24.5	23.8	24.9	25.3
	4H	27.7	28.7	28.1	29.1	29.5	23.6	24.5	24.0	24.9	25.4
	6H	28.1	28.9	28.5	29.3	29.8	23.8	24.6	24.2	25.0	25.5
	8H	28.1	28.9	28.6	29.4	29.8	23.8	24.6	24.3	25.1	25.5
	12H	28.2	28.9	28.7	29.4	29.8	23.9	24.6	24.4	25.1	25.6

8H	4H	27.7	28.5	28.1	28.9	29.4	23.7	24.5	24.2	25.0	25.4
	6H	28.0	28.7	28.5	29.2	29.6	24.0	24.7	24.5	25.1	25.6
	8H	28.1	28.7	28.6	29.2	29.7	24.1	24.7	24.6	25.2	25.7
	12H	28.2	28.7	28.7	29.2	29.8	24.3	24.8	24.8	25.3	25.9

12H	4H	27.6	28.4	28.1	28.8	29.3	23.8	24.5	24.2	24.9	25.4
	6H	28.0	28.6	28.5	29.1	29.6	24.0	24.6	24.5	25.1	25.6
	8H	28.1	28.6	28.6	29.1	29.7	24.2	24.7	24.7	25.2	25.8

Maximum UGR = 29.8

POLAR GRAPH



Maximum Candela = 7120.157 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.)