



IES INDOOR REPORT

PHOTOMETRIC FILENAME : GS-2-L180-840-HA-ND-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] 14629546.01
[TESTLAB] UL Verification Services Inc.
[ISSUE DATE] 2023-03-13
[TEST DATE] 1/5/2023
[MANUFAC] H E Williams Inc
[LUMCAT] GS-2-L180-840-HA-ND-DIM-UNV
[LUMINAIRE] White aluminum housing, prismatic lense enclosure
[LAMP] 448 White LEDs
[BALLAST] ULT D21CC80UNVPW-C
[OTHER] 25.5 C, 276.967 V, 0.622888 A, 168.916 W, 0.979112 PF, 59.9997
[MORE] Hz
[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	17282
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	149
Total Luminaire Watts	116
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.10
Spacing Criterion (90-270)	1.10
Spacing Criterion (Diagonal)	1.22
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	31180	30693	30899
55	28723	28419	27891
65	25648	25412	23311
75	21437	20427	16627
85	15808	12570	10237

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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	7604.615	7604.615	7604.615	7604.615	7604.615
0.5	7537.052	7604.615	7619.629	7604.615	7619.629
1.0	7529.545	7597.108	7619.629	7597.108	7619.629
1.5	7529.545	7597.108	7612.122	7597.108	7612.122
2.0	7522.038	7589.601	7604.615	7589.601	7604.615
2.5	7522.038	7582.094	7604.615	7582.094	7597.108
3.0	7514.531	7574.587	7597.108	7574.587	7589.601
3.5	7502.520	7567.080	7582.094	7559.573	7567.080
4.0	7494.262	7559.573	7574.587	7552.066	7567.080
4.5	7485.253	7552.066	7567.080	7537.052	7552.066
5.0	7474.744	7537.052	7559.573	7529.545	7537.052
5.5	7461.982	7529.545	7544.559	7514.531	7522.038
6.0	7447.718	7514.531	7529.545	7498.015	7514.531
6.5	7432.704	7496.514	7514.531	7480.749	7494.262
7.0	7414.687	7478.497	7494.262	7463.483	7476.245
7.5	7392.917	7458.228	7472.492	7442.463	7457.477
8.0	7373.399	7436.458	7449.970	7420.693	7435.707
8.5	7351.628	7412.435	7425.948	7398.172	7413.186
9.0	7326.855	7386.911	7399.673	7374.149	7389.164
9.5	7300.581	7359.135	7374.149	7348.626	7362.889
10.0	7270.553	7330.609	7344.872	7322.351	7335.864
10.5	7240.524	7299.079	7315.595	7293.824	7305.836
11.0	7208.244	7267.550	7284.065	7263.796	7273.555
11.5	7175.213	7234.519	7252.536	7232.267	7242.777
12.0	7140.681	7199.987	7217.253	7198.485	7207.494
12.5	7106.899	7163.202	7181.219	7164.704	7172.211
13.0	7072.367	7126.418	7142.933	7127.168	7135.426
13.5	7035.583	7088.132	7103.897	7085.880	7095.639
14.0	6996.546	7046.843	7064.109	7042.339	7056.602
14.5	6956.759	7004.804	7022.821	7004.053	7014.563
15.0	6914.720	6963.515	6980.031	6962.765	6972.524
15.5	6871.179	6920.725	6936.490	6917.722	6929.734
16.0	6827.638	6876.434	6889.946	6871.930	6883.941
16.5	6781.095	6832.893	6844.154	6826.887	6835.896
17.0	6733.050	6787.100	6802.114	6779.593	6787.100
17.5	6685.005	6740.557	6753.319	6731.548	6737.554
18.0	6637.710	6692.512	6703.022	6682.753	6688.008
18.5	6588.164	6645.217	6654.977	6633.206	6636.960
19.0	6539.368	6597.173	6605.430	6582.909	6585.161
19.5	6489.822	6548.377	6556.635	6531.111	6534.864
20.0	6441.026	6498.080	6506.338	6480.063	6484.567
20.5	6391.480	6448.533	6456.040	6428.264	6432.769
21.0	6340.432	6398.987	6406.494	6376.466	6381.721
21.5	6292.387	6347.939	6355.446	6324.668	6329.172
22.0	6241.340	6298.393	6304.399	6272.869	6278.124
22.5	6192.544	6248.847	6252.600	6221.071	6226.326
23.0	6142.998	6197.799	6200.051	6167.771	6172.275
23.5	6093.451	6147.502	6146.000	6112.969	6118.224
24.0	6044.656	6098.706	6091.950	6058.168	6064.925
24.5	5998.863	6046.908	6035.647	6003.367	6010.123
25.0	5950.067	5995.860	5980.095	5948.566	5957.574
25.5	5899.770	5944.061	5924.543	5895.266	5904.274
26.0	5850.974	5892.263	5868.991	5841.966	5853.226
26.5	5802.179	5839.714	5813.439	5787.915	5801.428

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CANDELA TABULATION - (Cont.)

27.0	5753.383	5792.420	5757.887	5734.615	5750.380
27.5	5703.837	5747.377	5703.086	5680.565	5699.332
28.0	5654.290	5687.321	5649.035	5627.265	5648.285
28.5	5605.495	5635.523	5594.985	5574.716	5597.988
29.0	5551.444	5588.979	5541.685	5522.167	5547.691
29.5	5501.898	5535.679	5489.136	5471.119	5497.394
30.0	5452.351	5482.379	5437.337	5420.071	5444.844
30.5	5404.306	5432.082	5386.290	5370.525	5393.797
31.0	5355.511	5381.785	5334.491	5320.978	5342.749
31.5	5308.217	5331.488	5282.693	5270.681	5290.950
32.0	5261.673	5281.191	5231.645	5221.135	5239.903
32.5	5214.379	5232.396	5180.597	5172.339	5190.356
33.0	5167.835	5182.849	5129.549	5122.042	5140.810
33.5	5122.042	5134.804	5078.502	5072.496	5092.765
34.0	5075.499	5085.258	5028.205	5022.199	5044.720
34.5	5028.955	5035.712	4971.902	4971.151	4995.924
35.0	4981.661	4986.916	4923.106	4920.103	4947.129
35.5	4935.117	4938.120	4875.061	4869.056	4898.333
36.0	4887.823	4889.325	4824.014	4818.759	4848.787
36.5	4840.529	4839.028	4773.716	4767.711	4799.991
37.0	4793.985	4789.481	4723.419	4716.663	4749.694
37.5	4753.447	4738.433	4671.621	4665.615	4700.148
38.0	4708.405	4688.136	4621.324	4614.568	4650.601
38.5	4647.598	4637.089	4571.027	4564.270	4601.806
39.0	4597.301	4585.290	4522.982	4513.973	4552.259
39.5	4547.004	4534.242	4475.688	4463.676	4501.962
40.0	4495.206	4482.444	4421.637	4413.379	4451.665
40.5	4444.158	4431.396	4369.088	4363.082	4401.368
41.0	4393.110	4381.099	4319.542	4312.785	4351.071
41.5	4342.063	4329.301	4269.995	4261.737	4300.023
42.0	4290.264	4278.253	4219.698	4210.690	4248.975
42.5	4239.967	4227.205	4170.902	4159.642	4199.429
43.0	4188.919	4176.157	4122.107	4109.345	4150.633
43.5	4138.622	4125.110	4072.560	4057.546	4101.087
44.0	4088.325	4074.813	4024.515	4006.499	4050.790
44.5	4038.028	4021.513	3974.969	3956.202	4001.994
45.0	3988.482	3967.462	3926.173	3905.154	3952.448
45.5	3938.935	3919.417	3877.378	3854.106	3900.650
46.0	3888.638	3869.120	3828.582	3803.058	3850.353
46.5	3840.593	3813.568	3779.036	3752.011	3798.554
47.0	3791.047	3767.025	3730.240	3700.963	3746.756
47.5	3740.750	3719.730	3680.694	3650.666	3694.957
48.0	3691.204	3669.433	3631.898	3599.618	3641.657
48.5	3641.657	3618.385	3582.352	3549.321	3589.108
49.0	3592.111	3568.088	3533.556	3498.273	3537.310
49.5	3542.565	3517.791	3484.760	3449.477	3484.010
50.0	3492.267	3466.744	3435.965	3399.931	3431.461
50.5	3441.970	3415.696	3387.920	3348.133	3378.911
51.0	3390.923	3365.399	3339.124	3297.085	3325.612
51.5	3340.626	3315.102	3291.079	3248.289	3273.062
52.0	3289.578	3265.555	3242.284	3197.992	3219.012
52.5	3237.029	3215.258	3194.239	3147.695	3164.961
53.0	3185.230	3164.961	3145.443	3098.149	3110.911
53.5	3134.182	3114.664	3096.647	3048.602	3056.860
54.0	3083.135	3065.118	3047.852	2999.056	3002.810
54.5	3032.087	3015.571	2998.305	2948.008	2948.759

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55.0	2980.288	2966.025	2948.759	2897.711	2893.958
55.5	2929.991	2915.728	2899.963	2845.913	2839.907
56.0	2878.944	2865.431	2849.666	2794.865	2785.857
56.5	2827.896	2815.134	2796.366	2743.067	2731.806
57.0	2776.848	2765.588	2743.817	2691.268	2677.005
57.5	2726.551	2715.291	2698.024	2638.719	2622.203
58.0	2675.503	2664.993	2649.229	2586.170	2568.153
58.5	2624.456	2614.696	2598.932	2532.870	2512.601
59.0	2573.408	2563.649	2548.635	2478.819	2457.800
59.5	2522.360	2513.352	2498.338	2425.519	2403.749
60.0	2472.063	2462.304	2447.290	2371.469	2356.455
60.5	2421.015	2411.256	2397.743	2318.169	2297.149
61.0	2369.967	2360.208	2348.197	2264.869	2234.090
61.5	2318.920	2309.911	2297.149	2210.819	2177.037
62.0	2268.623	2258.113	2246.102	2156.768	2120.734
62.5	2216.824	2207.065	2195.054	2103.468	2063.681
63.0	2165.776	2156.768	2144.757	2049.418	2007.378
63.5	2113.978	2105.720	2095.210	1996.868	1950.325
64.0	2062.179	2055.423	2044.913	1943.568	1894.022
64.5	2011.132	2005.126	1993.866	1891.019	1837.719
65.0	1960.835	1954.829	1942.818	1837.719	1782.167
65.5	1910.538	1904.532	1893.271	1785.170	1727.366
66.0	1860.241	1854.235	1842.974	1732.621	1672.565
66.5	1809.943	1805.439	1792.677	1680.072	1617.764
67.0	1759.646	1755.893	1742.380	1623.019	1563.713
67.5	1710.100	1706.347	1692.083	1572.721	1510.413
68.0	1660.554	1656.800	1641.035	1522.424	1457.113
68.5	1611.758	1608.005	1590.738	1470.626	1404.564
69.0	1562.962	1558.458	1539.691	1418.077	1352.015
69.5	1514.917	1510.413	1489.394	1366.278	1300.967
70.0	1466.872	1461.618	1439.096	1314.480	1249.919
70.5	1419.578	1412.822	1388.799	1263.432	1199.622
71.0	1372.284	1364.026	1339.253	1212.384	1150.076
71.5	1324.990	1316.732	1289.707	1162.838	1100.530
72.0	1278.446	1268.687	1240.160	1113.292	1052.485
72.5	1231.903	1221.393	1191.365	1064.496	1005.190
73.0	1186.110	1174.099	1144.070	1016.451	957.896
73.5	1140.317	1127.555	1096.025	969.157	912.103
74.0	1093.773	1081.011	1048.731	923.364	866.311
74.5	1049.482	1035.219	1002.188	877.571	822.019
75.0	1003.689	990.176	956.395	832.529	778.478
75.5	959.398	945.134	909.851	788.238	735.688
76.0	915.857	901.594	864.809	745.447	695.150
76.5	872.316	858.053	820.518	703.408	654.612
77.0	829.526	815.263	776.226	662.870	613.324
77.5	787.487	773.974	733.436	623.083	573.537
78.0	746.198	732.686	690.646	584.046	539.004
78.5	705.660	692.148	648.607	546.511	505.223
79.0	665.873	652.360	608.069	509.727	471.441
79.5	626.836	613.324	567.531	473.693	438.410
80.0	588.551	575.038	527.744	439.161	406.881
80.5	551.016	538.254	489.458	408.382	376.102
81.0	514.982	501.469	451.172	379.105	347.575
81.5	479.699	465.435	414.388	344.572	320.550
82.0	444.416	430.903	379.855	314.544	294.275
82.5	409.884	396.371	346.074	286.768	268.751

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CANDELA TABULATION - (Cont.)

83.0	376.102	362.589	313.794	260.494	244.729
83.5	343.822	330.309	282.264	235.721	222.208
84.0	311.541	298.780	252.236	212.449	201.188
84.5	280.012	267.250	224.460	189.928	180.919
85.0	249.233	237.222	198.185	169.659	161.401
85.5	218.454	207.945	173.412	149.390	141.883
86.0	189.177	180.169	150.891	129.872	122.364
86.5	159.149	152.393	128.370	111.104	105.849
87.0	130.622	126.118	107.350	96.090	92.336
87.5	103.597	102.096	88.583	82.577	80.325
88.0	78.824	79.574	73.569	68.314	67.563
88.5	56.303	60.056	58.555	57.804	57.053
89.0	35.283	43.541	47.294	50.297	50.297
89.5	21.020	30.779	38.286	43.541	43.541
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-ND-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-ND-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-ND-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2667.7	N.A.	15.40
0-30	5415.5	N.A.	31.30
0-40	8511.2	N.A.	49.20
0-60	14177.88	N.A.	82.00
0-80	17040.09	N.A.	98.60
0-90	17282.22	N.A.	100.00
10-90	16569.66	N.A.	95.90
20-40	5843.5	N.A.	33.80
20-50	8886.04	N.A.	51.40
40-70	7549.85	N.A.	43.70
60-80	2862.2	N.A.	16.60
70-80	979.03	N.A.	5.70
80-90	242.13	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	17282.22	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	712.56
10-20	1955.14
20-30	2747.8
30-40	3095.71
40-50	3042.53
50-60	2624.15
60-70	1883.17
70-80	979.03
80-90	242.13
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-ND-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	109	105	101	97	107	103	99	96	98	95	93	94	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74	72
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61
4	84	73	64	58	82	71	63	57	69	62	56	66	60	56	64	59	55	53
5	78	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	46
6	72	59	50	44	70	58	50	44	56	49	43	55	48	43	53	47	43	41
7	67	54	45	39	65	53	45	39	51	44	39	50	43	38	49	43	38	36
8	62	49	41	35	61	48	41	35	47	40	35	46	39	35	45	39	34	33
9	58	45	37	32	57	45	37	32	43	36	32	42	36	31	41	36	31	29
10	55	42	34	29	53	41	34	29	40	34	29	39	33	29	39	33	29	27

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GS-2-L180-840-HA-ND-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

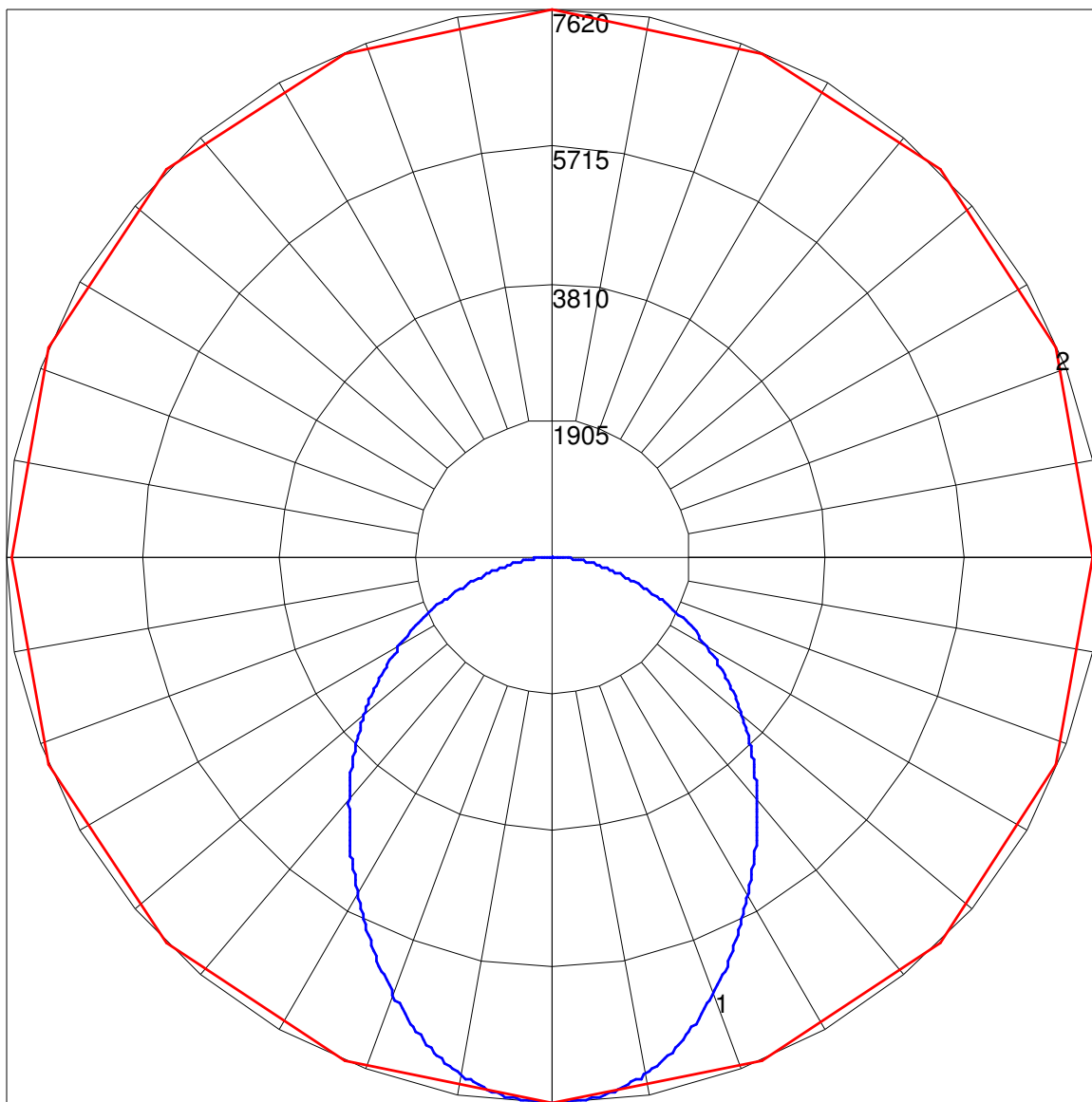
X=2H	Y=2H	23.6	25.2	24.0	25.5	25.8	23.4	25.0	23.8	25.3	25.6
	3H	25.3	26.7	25.7	27.1	27.4	24.9	26.3	25.2	26.6	27.0
	4H	25.9	27.2	26.3	27.6	28.0	25.3	26.7	25.7	27.0	27.4
	6H	26.3	27.6	26.7	27.9	28.3	25.6	26.8	26.0	27.2	27.6
	8H	26.5	27.6	26.9	28.0	28.4	25.6	26.8	26.1	27.2	27.6
	12H	26.5	27.7	27.0	28.1	28.5	25.7	26.8	26.1	27.2	27.6

UGR Viewed Endwise

4H	2H	24.2	25.5	24.6	25.9	26.3	24.0	25.4	24.4	25.7	26.1
	3H	26.1	27.2	26.5	27.6	28.0	25.7	26.8	26.1	27.2	27.6
	4H	26.8	27.8	27.2	28.2	28.7	26.2	27.3	26.7	27.7	28.1
	6H	27.4	28.2	27.8	28.7	29.1	26.6	27.5	27.0	27.9	28.4
	8H	27.5	28.4	28.0	28.8	29.3	26.7	27.5	27.1	28.0	28.4
	12H	27.6	28.4	28.1	28.9	29.3	26.7	27.5	27.2	28.0	28.4
8H	4H	27.0	27.9	27.5	28.3	28.8	26.5	27.4	27.0	27.8	28.3
	6H	27.7	28.4	28.2	28.9	29.3	27.0	27.7	27.5	28.1	28.6
	8H	27.9	28.5	28.4	29.1	29.5	27.1	27.7	27.6	28.2	28.7
	12H	28.1	28.7	28.6	29.2	29.7	27.2	27.8	27.7	28.2	28.8
12H	4H	27.0	27.8	27.5	28.3	28.7	26.6	27.3	27.0	27.8	28.2
	6H	27.7	28.3	28.2	28.8	29.3	27.0	27.7	27.5	28.1	28.6
	8H	28.0	28.5	28.5	29.0	29.6	27.2	27.7	27.7	28.2	28.8

Maximum UGR = 29.7

POLAR GRAPH



Maximum Candela = 7619.629 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.)