



IES INDOOR REPORT

PHOTOMETRIC FILENAME : GS-2-L180-840-HA-CA-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-CA-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	18002
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	155
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	35917	37029	37699
55	34378	35762	25723
65	31183	21810	7070
75	25528	7017	7107
85	11192	9620	8958

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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	6824.157	6824.157	6824.157	6824.157	6824.157
0.5	6739.855	6828.444	6843.447	6832.730	6846.304
1.0	6741.999	6829.158	6844.161	6832.730	6845.590
1.5	6744.856	6828.444	6844.875	6830.587	6843.447
2.0	6744.142	6829.872	6843.447	6831.301	6844.161
2.5	6742.713	6828.444	6844.161	6829.872	6842.018
3.0	6741.999	6825.586	6842.732	6830.587	6843.447
3.5	6739.855	6821.299	6842.018	6830.587	6843.447
4.0	6734.854	6819.156	6839.874	6833.445	6844.875
4.5	6728.425	6814.870	6837.017	6834.873	6846.304
5.0	6719.852	6809.869	6834.873	6833.445	6844.161
5.5	6713.422	6805.582	6832.016	6831.301	6841.303
6.0	6708.421	6801.296	6828.444	6826.300	6835.588
6.5	6701.277	6794.866	6824.872	6821.299	6827.729
7.0	6691.989	6787.722	6817.727	6814.155	6818.442
7.5	6684.130	6781.292	6811.298	6804.868	6808.440
8.0	6676.986	6773.433	6802.010	6794.866	6799.152
8.5	6673.414	6764.860	6793.437	6784.864	6792.008
9.0	6667.699	6755.573	6784.149	6774.862	6783.435
9.5	6659.840	6748.428	6776.291	6767.718	6777.005
10.0	6651.267	6741.999	6767.718	6759.145	6768.432
10.5	6643.408	6734.854	6757.716	6748.428	6758.430
11.0	6634.835	6727.710	6746.285	6736.283	6747.714
11.5	6627.691	6719.852	6734.854	6724.852	6731.282
12.0	6614.117	6709.850	6725.567	6709.850	6709.850
12.5	6599.114	6699.848	6712.707	6689.846	6692.704
13.0	6584.111	6688.417	6699.133	6669.842	6674.129
13.5	6568.394	6672.700	6685.559	6652.696	6653.410
14.0	6551.248	6657.697	6671.271	6633.406	6634.121
14.5	6528.386	6642.694	6654.125	6614.117	6617.689
15.0	6511.955	6627.691	6637.693	6594.828	6604.830
15.5	6502.667	6611.259	6618.404	6576.253	6591.970
16.0	6489.093	6592.684	6599.114	6559.821	6576.253
16.5	6474.805	6575.538	6576.253	6543.389	6561.964
17.0	6465.517	6557.678	6556.249	6526.958	6545.533
17.5	6450.515	6540.532	6534.816	6508.383	6529.815
18.0	6433.368	6520.528	6511.955	6491.237	6511.240
18.5	6414.793	6501.238	6491.951	6470.518	6486.950
19.0	6392.646	6482.663	6466.946	6449.086	6464.089
19.5	6368.356	6463.374	6443.370	6428.367	6445.514
20.0	6345.495	6444.085	6420.509	6406.220	6425.510
20.5	6323.347	6423.366	6399.791	6384.788	6405.506
21.0	6301.915	6401.219	6378.358	6364.784	6384.073
21.5	6276.910	6379.072	6356.211	6344.780	6360.497
22.0	6252.620	6356.925	6334.064	6323.347	6336.921
22.5	6231.901	6333.349	6310.488	6301.200	6315.489
23.0	6211.183	6309.059	6284.054	6275.481	6289.770
23.5	6190.465	6281.911	6258.335	6252.620	6266.908
24.0	6164.746	6257.621	6230.473	6229.758	6241.903
24.5	6142.599	6233.330	6201.896	6204.039	6218.327
25.0	6118.308	6203.325	6171.176	6180.463	6191.179
25.5	6090.446	6178.320	6144.028	6154.029	6165.460
26.0	6058.297	6153.315	6117.594	6127.596	6136.883
26.5	6023.290	6120.452	6091.875	6099.733	6109.021

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CANDELA TABULATION - (Cont.)

27.0	5991.141	6088.303	6064.012	6072.585	6081.158
27.5	5959.707	6054.725	6038.293	6045.437	6054.010
28.0	5929.701	6021.147	6010.431	6019.718	6026.862
28.5	5903.982	5987.569	5981.139	5991.856	5997.571
29.0	5875.405	5954.706	5951.134	5958.992	5968.994
29.5	5846.828	5921.842	5921.128	5928.987	5943.275
30.0	5818.251	5885.407	5888.979	5897.552	5913.269
30.5	5789.674	5851.829	5859.688	5865.403	5886.121
31.0	5758.954	5814.679	5830.396	5835.397	5856.116
31.5	5724.662	5778.244	5799.676	5804.677	5826.110
32.0	5688.941	5745.380	5767.527	5773.243	5794.675
32.5	5651.791	5710.374	5736.807	5745.380	5761.812
33.0	5613.212	5676.081	5708.945	5714.660	5731.806
33.5	5576.062	5639.646	5676.796	5683.225	5704.658
34.0	5538.198	5601.067	5641.789	5650.362	5673.224
34.5	5502.477	5563.203	5606.068	5617.499	5640.360
35.0	5469.613	5523.909	5566.775	5585.350	5605.354
35.5	5438.893	5484.616	5521.766	5551.772	5573.919
36.0	5401.743	5442.465	5485.331	5518.194	5541.056
36.5	5363.165	5400.314	5450.324	5483.187	5506.049
37.0	5318.870	5358.164	5411.745	5448.895	5471.757
37.5	5271.004	5316.727	5372.452	5414.603	5435.321
38.0	5225.281	5276.005	5337.445	5378.882	5397.457
38.5	5178.844	5234.569	5303.868	5341.732	5356.020
39.0	5138.122	5193.132	5264.574	5301.724	5317.442
39.5	5099.543	5148.838	5220.995	5259.573	5279.577
40.0	5059.535	5102.401	5177.415	5219.566	5240.284
40.5	5018.099	5055.963	5135.978	5178.844	5203.134
41.0	4979.520	5009.526	5093.827	5134.550	5165.270
41.5	4932.368	4962.374	5048.819	5093.827	5121.690
42.0	4880.215	4915.936	5003.096	5050.248	5077.396
42.5	4823.776	4868.785	4956.659	5006.668	5033.816
43.0	4768.766	4820.918	4912.364	4963.088	4991.665
43.5	4717.327	4770.194	4866.641	4918.794	4950.229
44.0	4671.604	4722.328	4825.205	4875.929	4911.650
44.5	4633.740	4675.176	4780.911	4837.350	4870.213
45.0	4594.447	4625.167	4736.617	4797.342	4822.347
45.5	4551.581	4576.586	4688.750	4749.476	4778.767
46.0	4500.857	4526.577	4635.169	4696.609	4731.616
46.5	4448.705	4474.424	4578.729	4653.029	4686.607
47.0	4393.694	4424.414	4530.863	4608.021	4643.027
47.5	4344.399	4376.548	4482.997	4560.869	4596.590
48.0	4299.390	4330.111	4432.273	4515.860	4548.724
48.5	4255.096	4287.960	4382.263	4471.566	4491.570
49.0	4207.944	4230.092	4335.112	4425.843	4418.699
49.5	4157.221	4168.651	4288.674	4380.120	4334.397
50.0	4093.637	4117.213	4240.093	4330.825	4232.949
50.5	4035.769	4072.204	4187.941	4277.958	4109.354
51.0	3981.473	4018.623	4135.788	4213.660	3967.184
51.5	3934.321	3966.470	4081.492	4135.073	3830.730
52.0	3889.312	3910.031	4030.053	4043.627	3720.709
52.5	3837.874	3855.735	3977.901	3925.033	3616.403
53.0	3778.577	3797.152	3924.319	3789.293	3459.945
53.5	3717.851	3742.856	3872.881	3647.838	3249.190
54.0	3661.412	3693.561	3818.585	3528.529	3008.430
54.5	3614.260	3639.265	3763.574	3425.653	2809.107

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55.0	3567.108	3575.681	3710.707	3297.057	2669.080
55.5	3507.097	3517.099	3656.411	3114.165	2562.631
56.0	3442.084	3469.947	3603.544	2886.264	2459.040
56.5	3387.788	3419.937	3549.962	2674.081	2329.730
57.0	3342.065	3364.212	3493.523	2524.052	2198.990
57.5	3290.627	3302.058	3431.368	2416.889	2090.398
58.0	3231.330	3241.332	3364.927	2329.730	2023.243
58.5	3164.889	3183.464	3283.483	2223.281	1981.092
59.0	3111.307	3127.024	3189.893	2077.539	1946.085
59.5	3059.154	3066.298	3083.445	1956.801	1896.790
60.0	2991.999	3002.715	2957.706	1885.359	1831.063
60.5	2927.701	2948.419	2844.828	1843.208	1747.476
61.0	2869.832	2889.122	2738.379	1807.487	1643.885
61.5	2819.108	2827.682	2614.784	1755.334	1534.578
62.0	2758.383	2762.669	2480.473	1688.179	1425.272
62.5	2683.368	2696.942	2306.868	1600.305	1280.244
63.0	2617.642	2640.503	2111.116	1490.998	1062.345
63.5	2565.489	2584.778	1952.515	1385.264	886.597
64.0	2501.905	2519.766	1844.637	1279.529	782.292
64.5	2441.179	2462.612	1762.479	1122.357	686.631
65.0	2384.026	2404.029	1667.461	916.603	540.532
65.5	2308.297	2337.588	1548.152	774.433	468.375
66.0	2243.999	2276.148	1448.133	687.631	452.229
66.5	2188.274	2220.423	1388.122	559.749	444.799
67.0	2127.548	2158.268	1340.970	469.089	438.298
67.5	2063.965	2096.828	1291.675	436.297	431.868
68.0	1998.238	2041.103	1228.091	427.296	425.867
68.5	1941.084	1975.376	1138.074	420.151	420.009
69.0	1885.359	1916.079	1035.197	413.507	414.150
69.5	1823.204	1855.353	947.323	407.292	408.149
70.0	1762.479	1798.914	826.586	401.362	402.219
70.5	1703.896	1734.616	671.699	395.290	396.504
71.0	1652.458	1667.461	571.895	389.646	390.789
71.5	1593.161	1597.447	496.595	384.002	384.359
72.0	1533.864	1523.147	410.435	377.643	378.143
72.5	1475.281	1428.129	367.856	371.571	371.499
73.0	1420.271	1328.825	356.782	365.427	364.284
73.5	1365.260	1243.808	349.424	358.854	356.997
74.0	1310.250	1153.791	342.208	351.781	348.995
74.5	1255.954	1055.201	335.421	344.137	341.065
75.0	1195.228	929.463	328.563	336.350	332.778
75.5	1139.503	841.589	321.990	328.348	324.133
76.0	1083.778	777.291	315.632	320.061	315.346
76.5	1024.481	706.992	308.773	311.559	306.273
77.0	965.184	632.406	301.915	302.843	297.271
77.5	905.172	583.826	294.556	294.056	287.983
78.0	838.017	524.600	286.912	284.983	278.696
78.5	782.292	450.443	278.696	275.481	269.123
79.0	732.997	393.218	270.409	266.194	259.764
79.5	681.844	310.416	261.907	256.906	250.191
80.0	630.191	266.837	253.120	247.333	240.403
80.5	578.467	226.043	244.332	237.474	230.758
81.0	525.957	212.183	235.188	227.686	222.042
81.5	474.162	203.539	225.614	218.042	213.684
82.0	427.510	194.537	215.613	208.254	202.539
82.5	385.859	185.464	205.611	198.538	192.680

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CANDELA TABULATION - (Cont.)

83.0	341.065	176.605	194.966	188.536	183.106
83.5	297.342	167.389	184.392	178.677	173.319
84.0	255.120	157.959	173.462	168.389	163.245
84.5	215.684	147.957	162.745	157.673	152.743
85.0	176.462	137.883	151.672	146.099	141.241
85.5	156.101	127.167	139.812	133.668	129.453
86.0	133.740	116.094	127.310	120.594	116.665
86.5	101.234	104.520	113.307	106.449	103.734
87.0	84.230	92.446	98.447	91.660	89.660
87.5	73.514	79.872	82.587	76.657	74.514
88.0	62.869	66.084	66.727	60.154	57.511
88.5	51.224	51.224	50.581	42.294	39.007
89.0	37.436	36.936	34.435	27.434	25.219
89.5	23.433	24.790	22.147	18.789	18.218
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-CA-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-CA-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-CA-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2513.51	N.A.	14.00
0-30	5360.89	N.A.	29.80
0-40	8833.65	N.A.	49.10
0-60	15512.5	N.A.	86.20
0-80	17839.98	N.A.	99.10
0-90	18002.03	N.A.	100.00
10-90	17353.87	N.A.	96.40
20-40	6320.14	N.A.	35.10
20-50	9954.15	N.A.	55.30
40-70	8358.84	N.A.	46.40
60-80	2327.47	N.A.	12.90
70-80	647.49	N.A.	3.60
80-90	162.05	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	18002.03	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	648.16
10-20	1865.35
20-30	2847.38
30-40	3472.76
40-50	3634.01
50-60	3044.84
60-70	1679.99
70-80	647.49
80-90	162.05
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-CA-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-CA-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	24.8	26.4	25.2	26.7	27.0	22.4	24.0	22.8	24.3	24.6
	3H	26.5	27.9	26.9	28.2	28.6	22.5	23.9	22.9	24.3	24.6
	4H	27.0	28.4	27.4	28.7	29.1	22.6	23.9	23.0	24.3	24.7
	6H	27.3	28.5	27.7	28.9	29.3	22.7	24.0	23.2	24.3	24.7
	8H	27.4	28.5	27.8	28.9	29.3	22.8	24.0	23.2	24.4	24.8
	12H	27.4	28.5	27.8	28.9	29.3	22.9	24.0	23.3	24.4	24.8

UGR Viewed Endwise

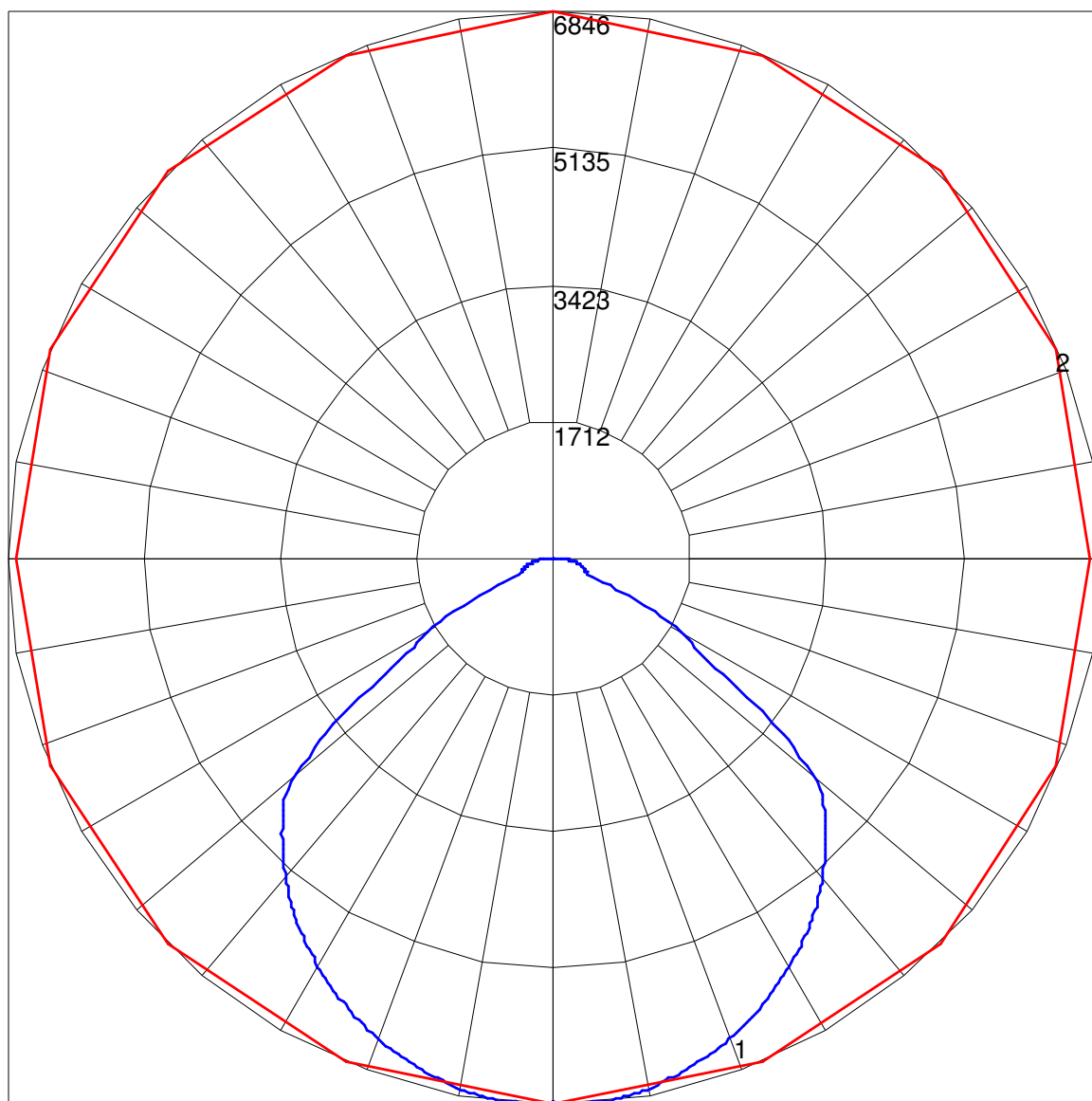
4H	2H	25.1	26.4	25.5	26.7	27.1	23.0	24.4	23.4	24.7	25.1
	3H	26.9	28.0	27.3	28.4	28.8	23.2	24.3	23.6	24.7	25.1
	4H	27.5	28.5	27.9	28.9	29.3	23.4	24.3	23.8	24.7	25.2
	6H	27.9	28.7	28.3	29.1	29.6	23.5	24.4	24.0	24.8	25.3
	8H	27.9	28.7	28.4	29.2	29.6	23.6	24.4	24.1	24.9	25.3
	12H	28.0	28.7	28.5	29.2	29.6	23.7	24.4	24.2	24.9	25.4

8H	4H	27.5	28.3	27.9	28.7	29.2	23.5	24.3	24.0	24.8	25.2
	6H	27.8	28.5	28.3	29.0	29.4	23.8	24.5	24.3	24.9	25.4
	8H	27.9	28.5	28.4	29.0	29.5	23.9	24.5	24.4	25.0	25.5
	12H	28.0	28.5	28.5	29.0	29.6	24.1	24.6	24.6	25.1	25.7

12H	4H	27.4	28.2	27.9	28.6	29.1	23.6	24.3	24.0	24.7	25.2
	6H	27.8	28.4	28.3	28.9	29.4	23.8	24.4	24.3	24.9	25.4
	8H	27.9	28.4	28.4	28.9	29.5	24.0	24.5	24.5	25.0	25.6

Maximum UGR = 29.6

POLAR GRAPH



Maximum Candela = 6846.304 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.)