



IES INDOOR REPORT

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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] 14629546.02
[TESTLAB] UL Verification Services Inc.
[ISSUE DATE] 2023-03-13
[TEST DATE] 1/5/2023
[MANUFAC] H E Williams Inc
[LUMCAT] GS-2-L180-840-HA-MD-DIM-UNV
[LUMINAIRE] White aluminum housing, prismatic lense enclosure
[LAMP] 448 White LEDs
[BALLAST] ULT D21CC80UNVPW-C
[OTHER] 26 C, 276.949 V, 0.623316 A, 169.009 W, 0.979045 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	17102
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	147
Total Luminaire Watts	116
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)	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	32516	31594	27628
55	24553	23027	19453
65	19077	17251	16053
75	18373	15006	16160
85	16425	11141	12378

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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	7731.623	7731.623	7731.623	7731.623	7731.623
0.5	7664.065	7724.117	7746.636	7731.623	7739.129
1.0	7664.065	7724.117	7746.636	7724.117	7739.129
1.5	7664.065	7724.117	7746.636	7724.117	7739.129
2.0	7656.559	7724.117	7739.129	7716.610	7731.623
2.5	7656.559	7716.610	7739.129	7716.610	7724.117
3.0	7649.052	7709.104	7731.623	7709.104	7716.610
3.5	7649.052	7709.104	7724.117	7701.597	7716.610
4.0	7641.546	7701.597	7716.610	7694.091	7709.104
4.5	7634.039	7694.091	7709.104	7686.584	7701.597
5.0	7634.039	7686.584	7709.104	7686.584	7694.091
5.5	7626.533	7679.078	7701.597	7679.078	7686.584
6.0	7619.027	7671.572	7694.091	7671.572	7679.078
6.5	7611.520	7671.572	7686.584	7664.065	7671.572
7.0	7604.014	7656.559	7679.078	7656.559	7664.065
7.5	7589.001	7649.052	7671.572	7649.052	7656.559
8.0	7581.494	7641.546	7664.065	7641.546	7649.052
8.5	7573.988	7634.039	7656.559	7634.039	7634.039
9.0	7558.975	7619.027	7641.546	7626.533	7626.533
9.5	7551.469	7611.520	7634.039	7611.520	7619.027
10.0	7536.456	7604.014	7626.533	7604.014	7604.014
10.5	7521.443	7589.001	7611.520	7589.001	7596.507
11.0	7513.937	7573.988	7596.507	7573.988	7581.494
11.5	7499.674	7558.975	7581.494	7558.975	7566.482
12.0	7486.163	7543.962	7566.482	7543.962	7551.469
12.5	7471.901	7528.949	7551.469	7528.949	7536.456
13.0	7456.137	7513.937	7536.456	7513.937	7521.443
13.5	7438.122	7493.669	7521.443	7495.171	7506.430
14.0	7420.106	7475.654	7498.173	7477.906	7489.165
14.5	7400.589	7456.888	7478.656	7459.890	7472.651
15.0	7380.322	7438.872	7459.140	7440.374	7455.386
15.5	7358.553	7418.605	7438.122	7420.857	7438.122
16.0	7336.785	7397.587	7415.602	7401.340	7418.605
16.5	7314.266	7375.818	7393.834	7381.073	7398.338
17.0	7290.996	7352.548	7370.564	7359.304	7376.569
17.5	7266.224	7327.777	7348.044	7337.535	7354.050
18.0	7240.703	7303.006	7325.525	7314.266	7330.780
18.5	7216.682	7277.484	7301.505	7290.245	7304.507
19.0	7191.160	7251.962	7277.484	7265.474	7279.736
19.5	7166.389	7224.939	7252.713	7239.952	7253.463
20.0	7140.116	7197.165	7224.188	7215.181	7228.692
20.5	7111.592	7167.140	7193.412	7190.409	7200.918
21.0	7082.317	7134.862	7159.633	7164.137	7173.895
21.5	7052.291	7102.584	7131.109	7135.612	7145.371
22.0	7020.764	7070.307	7101.083	7107.088	7116.846
22.5	6986.985	7035.777	7067.304	7076.312	7086.070
23.0	6952.456	7001.247	7032.024	7044.034	7053.042
23.5	6916.425	6965.967	6996.744	7010.255	7020.013
24.0	6878.142	6928.435	6959.211	6974.975	6986.235
24.5	6840.610	6890.152	6922.430	6938.193	6951.705
25.0	6801.576	6851.869	6885.648	6899.911	6915.674
25.5	6760.291	6810.584	6846.615	6860.127	6878.893
26.0	6719.756	6770.800	6807.582	6818.841	6839.109
26.5	6678.471	6728.013	6766.296	6777.556	6798.574

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CANDELA TABULATION - (Cont.)

27.0	6634.934	6685.977	6724.260	6734.018	6756.538
27.5	6590.646	6642.440	6680.723	6689.731	6713.000
28.0	6544.106	6597.401	6635.684	6643.191	6667.211
28.5	6497.566	6550.862	6588.394	6595.900	6619.170
29.0	6445.021	6502.820	6540.353	6546.358	6568.877
29.5	6394.728	6453.278	6490.810	6495.314	6516.332
30.0	6342.933	6402.234	6439.016	6442.018	6461.535
30.5	6288.887	6350.440	6384.969	6385.720	6402.985
31.0	6233.340	6297.144	6330.173	6324.167	6341.432
31.5	6177.041	6243.098	6272.373	6259.612	6276.126
32.0	6120.743	6189.052	6215.324	6200.311	6217.576
32.5	6061.442	6130.502	6155.273	6136.507	6153.021
33.0	6003.643	6071.951	6093.720	6066.697	6062.193
33.5	5942.841	6010.399	6029.165	5996.136	5978.872
34.0	5881.288	5946.594	5963.859	5921.072	5894.049
34.5	5820.486	5882.039	5896.301	5841.504	5806.224
35.0	5755.180	5816.733	5826.491	5759.684	5713.895
35.5	5689.874	5749.925	5753.679	5674.111	5616.311
36.0	5621.566	5680.116	5678.614	5584.784	5516.476
36.5	5551.756	5608.054	5599.797	5490.954	5412.887
37.0	5480.445	5534.491	5519.478	5395.622	5307.797
37.5	5407.632	5459.427	5436.907	5295.786	5200.455
38.0	5331.817	5383.612	5353.586	5195.951	5090.110
38.5	5254.501	5305.545	5267.262	5093.113	4979.766
39.0	5175.684	5226.727	5179.437	4988.023	4866.419
39.5	5094.614	5147.159	5089.360	4882.182	4753.822
40.0	5012.794	5066.090	4997.781	4775.591	4640.475
40.5	4928.722	4984.270	4903.951	4667.498	4525.627
41.0	4843.899	4900.948	4810.120	4560.156	4404.023
41.5	4759.827	4816.126	4714.789	4451.313	4279.416
42.0	4674.254	4730.552	4617.205	4344.722	4175.827
42.5	4588.681	4644.228	4521.123	4245.637	4072.238
43.0	4502.357	4557.154	4425.041	4138.295	3963.395
43.5	4416.033	4468.578	4328.958	4024.197	3853.051
44.0	4329.709	4380.002	4232.125	3921.359	3744.207
44.5	4244.136	4289.925	4135.292	3817.770	3639.117
45.0	4159.313	4199.097	4041.462	3716.434	3534.027
45.5	4072.989	4109.771	3946.130	3616.598	3431.189
46.0	3986.665	4020.444	3852.300	3519.014	3332.104
46.5	3902.593	3930.367	3760.722	3424.433	3236.022
47.0	3817.770	3841.791	3668.392	3331.354	3142.192
47.5	3732.948	3753.966	3578.315	3239.775	3052.114
48.0	3649.626	3666.140	3488.989	3151.199	2965.040
48.5	3566.305	3580.567	3400.413	3064.875	2880.217
49.0	3482.984	3495.745	3314.089	2979.302	2799.148
49.5	3398.912	3410.922	3229.266	2897.482	2721.081
50.0	3316.341	3327.600	3145.194	2817.163	2646.017
50.5	3235.271	3245.030	3061.873	2738.346	2572.454
51.0	3154.953	3163.960	2981.554	2663.281	2501.893
51.5	3073.883	3084.392	2901.235	2585.215	2435.086
52.0	2995.816	3005.575	2823.919	2514.654	2369.029
52.5	2916.999	2928.258	2750.356	2447.847	2305.975
53.0	2839.683	2851.693	2679.796	2381.790	2245.173
53.5	2763.868	2775.878	2602.479	2317.235	2185.872
54.0	2690.305	2701.564	2527.415	2254.181	2128.824
54.5	2618.243	2628.752	2456.855	2193.379	2073.276

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CANDELA TABULATION - (Cont.)

55.0	2547.682	2556.690	2389.297	2134.078	2018.479
55.5	2477.122	2485.379	2322.489	2076.279	1965.934
56.0	2410.315	2416.320	2257.184	2019.980	1914.890
56.5	2344.258	2348.011	2193.379	1965.934	1865.348
57.0	2278.952	2281.204	2131.076	1912.638	1816.556
57.5	2216.649	2215.898	2070.273	1860.844	1769.266
58.0	2156.597	2152.844	2010.973	1810.551	1723.476
58.5	2097.297	2090.541	1952.422	1761.759	1679.188
59.0	2039.497	2030.489	1895.374	1713.718	1636.402
59.5	1982.448	1971.189	1839.826	1667.178	1594.366
60.0	1928.402	1913.389	1785.780	1622.890	1554.582
60.5	1875.106	1858.592	1733.235	1578.602	1516.299
61.0	1823.312	1804.546	1681.440	1536.566	1478.016
61.5	1772.268	1752.001	1631.147	1495.281	1441.985
62.0	1723.476	1701.708	1582.355	1456.247	1407.456
62.5	1676.186	1652.916	1535.065	1417.965	1374.427
63.0	1629.646	1607.127	1488.525	1380.433	1342.900
63.5	1582.355	1563.589	1444.237	1344.402	1312.124
64.0	1528.309	1514.047	1401.451	1309.872	1282.849
64.5	1493.780	1472.011	1359.414	1276.844	1254.324
65.0	1458.499	1431.476	1318.880	1244.566	1227.301
65.5	1418.715	1391.692	1279.846	1213.790	1201.029
66.0	1381.934	1348.155	1242.314	1183.013	1175.507
66.5	1345.152	1309.872	1205.533	1153.738	1150.736
67.0	1310.623	1273.091	1169.502	1125.214	1126.715
67.5	1276.844	1237.060	1135.723	1097.440	1102.695
68.0	1244.566	1202.530	1102.695	1070.417	1079.425
68.5	1213.039	1168.751	1070.417	1044.144	1056.155
69.0	1183.013	1135.723	1038.890	1017.872	1033.635
69.5	1154.489	1103.445	1008.864	992.350	1011.116
70.0	1125.965	1071.918	978.838	967.579	989.347
70.5	1098.191	1041.142	950.314	942.057	966.828
71.0	1071.168	1011.116	921.039	917.286	945.060
71.5	1044.144	981.090	893.265	892.515	922.540
72.0	1018.623	951.065	865.491	867.743	900.021
72.5	992.350	921.790	835.466	842.221	876.751
73.0	966.828	892.515	808.443	817.450	853.481
73.5	942.057	863.239	782.921	791.178	830.211
74.0	917.286	833.964	755.898	765.656	806.191
74.5	887.260	804.689	728.124	739.383	781.419
75.0	860.237	775.414	702.602	713.111	756.648
75.5	832.463	746.890	677.080	686.088	730.376
76.0	803.939	717.615	646.304	659.815	704.854
76.5	775.414	688.340	618.530	632.792	677.831
77.0	746.139	659.815	590.756	605.769	650.807
77.5	716.864	630.540	562.982	578.746	623.034
78.0	686.088	602.016	535.959	550.972	594.509
78.5	654.561	572.741	508.185	523.949	565.985
79.0	623.784	544.216	481.162	496.926	536.710
79.5	593.008	514.941	452.638	469.152	507.435
80.0	561.481	486.417	425.615	442.129	478.160
80.5	529.954	457.892	398.591	415.106	448.134
81.0	498.427	429.368	371.568	388.082	418.859
81.5	467.651	401.594	344.545	361.810	388.833
82.0	436.874	374.571	318.273	335.537	359.558
82.5	406.098	346.797	292.000	310.016	331.034

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CANDELA TABULATION - (Cont.)

83.0	376.072	317.522	267.229	284.494	302.509
83.5	346.046	293.501	243.208	259.722	275.486
84.0	316.771	270.231	219.188	234.951	247.712
84.5	287.496	243.959	196.668	211.681	221.440
85.0	258.972	220.689	175.650	188.411	195.167
85.5	231.198	198.170	154.632	166.643	171.147
86.0	202.674	174.900	135.116	145.625	146.375
86.5	175.650	152.381	117.100	123.105	124.607
87.0	148.627	129.861	99.085	102.087	102.838
87.5	122.355	107.342	81.820	82.571	82.571
88.0	96.082	87.075	66.057	64.555	64.555
88.5	70.560	69.059	51.794	49.542	47.291
89.0	49.542	53.296	39.784	36.782	34.530
89.5	33.779	39.784	28.524	26.273	26.273
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-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-2-L180-840-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-2-L180-840-HA-MD-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2830.13	N.A.	16.50
0-30	5991.47	N.A.	35.00
0-40	9579.97	N.A.	56.00
0-60	14740.87	N.A.	86.20
0-80	16867.74	N.A.	98.60
0-90	17101.87	N.A.	100.00
10-90	16370.9	N.A.	95.70
20-40	6749.84	N.A.	39.50
20-50	9799.84	N.A.	57.30
40-70	6499.66	N.A.	38.00
60-80	2126.87	N.A.	12.40
70-80	788.12	N.A.	4.60
80-90	234.12	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	17101.87	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	730.97
10-20	2099.16
20-30	3161.34
30-40	3588.51
40-50	3050.00
50-60	2110.9
60-70	1338.75
70-80	788.12
80-90	234.12
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-2-L180-840-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-2-L180-840-HA-MD-DIM-UNV_.IES

UGR TABLE - CORRECTED

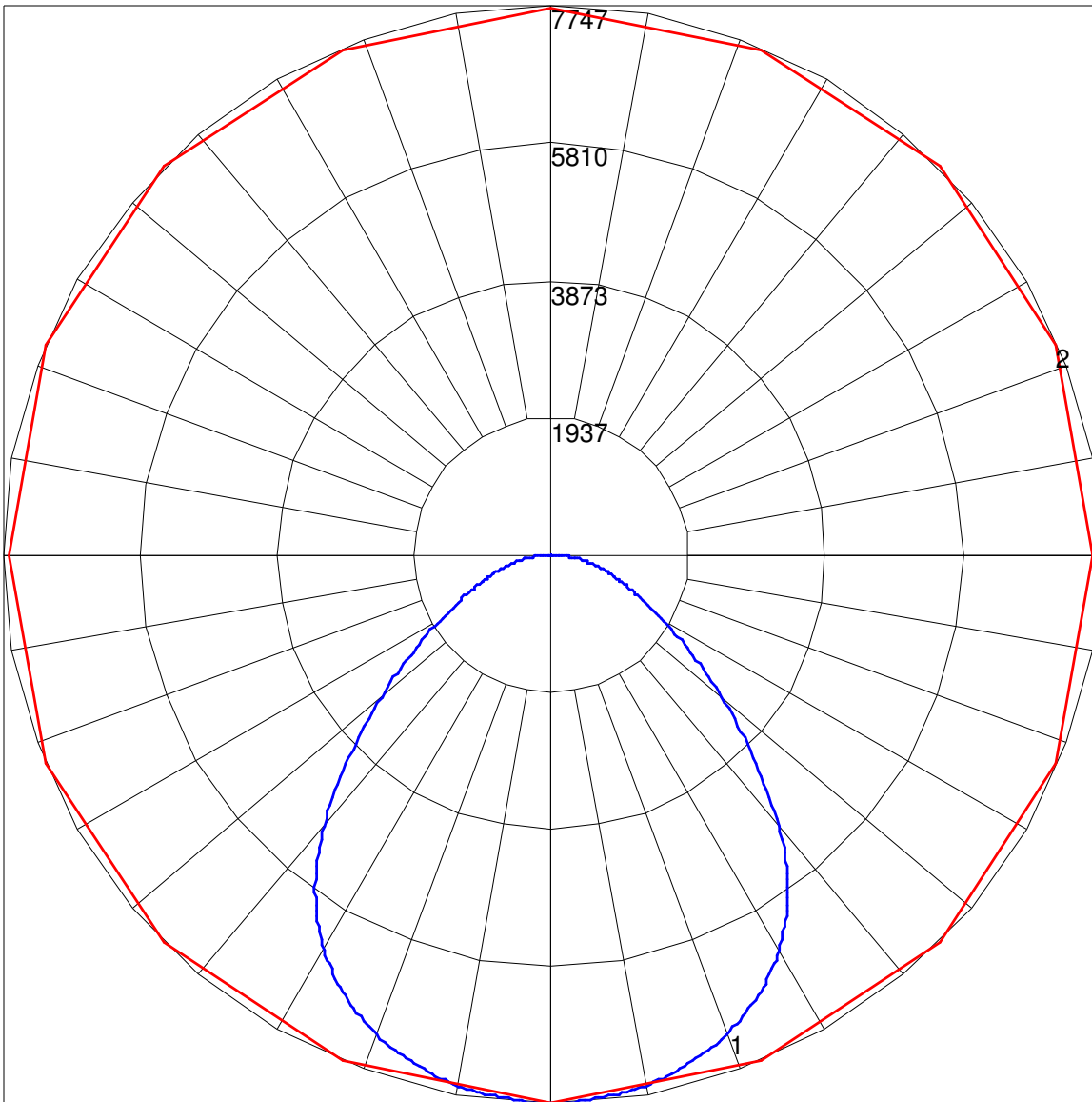
Reflectances

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					UGR Viewed Endwise				
X=2H	Y=2H	22.4	23.9	22.7	24.2	24.5	21.1	22.6	21.5	22.9	23.2
	3H	23.8	25.1	24.2	25.5	25.8	22.7	24.0	23.0	24.3	24.7
	4H	24.4	25.7	24.8	26.0	26.4	23.4	24.6	23.8	25.0	25.4
	6H	25.0	26.2	25.4	26.5	26.9	24.0	25.1	24.4	25.5	25.9
	8H	25.2	26.3	25.6	26.7	27.1	24.1	25.2	24.6	25.6	26.0
	12H	25.3	26.4	25.8	26.8	27.2	24.3	25.3	24.7	25.7	26.1
4H	2H	22.7	24.0	23.1	24.3	24.7	21.7	22.9	22.1	23.3	23.7
	3H	24.4	25.4	24.8	25.8	26.2	23.5	24.5	23.9	24.9	25.3
	4H	25.2	26.1	25.6	26.5	27.0	24.3	25.2	24.7	25.7	26.1
	6H	25.9	26.7	26.3	27.1	27.6	25.0	25.8	25.5	26.3	26.7
	8H	26.1	26.9	26.6	27.3	27.8	25.2	26.0	25.7	26.5	26.9
	12H	26.3	27.0	26.8	27.5	28.0	25.4	26.1	25.9	26.6	27.0
8H	4H	25.4	26.2	25.8	26.6	27.1	24.6	25.4	25.1	25.8	26.3
	6H	26.2	26.8	26.7	27.3	27.8	25.4	26.1	25.9	26.5	27.0
	8H	26.5	27.1	27.0	27.6	28.1	25.7	26.3	26.2	26.8	27.3
	12H	26.8	27.3	27.3	27.8	28.4	25.9	26.5	26.5	27.0	27.5
12H	4H	25.4	26.1	25.9	26.6	27.0	24.6	25.3	25.1	25.8	26.3
	6H	26.2	26.8	26.8	27.3	27.8	25.5	26.1	26.0	26.5	27.1
	8H	26.6	27.1	27.1	27.6	28.2	25.8	26.3	26.3	26.8	27.4

Maximum UGR = 28.4

POLAR GRAPH



Maximum Candela = 7746.636 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.)