



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : GS-2-L180-850-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-L180-850-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	19284
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	166
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	38475	39665	40383
55	36826	38308	27555
65	33403	23363	7574
75	27345	7517	7614
85	11989	10305	9596

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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	7310.037	7310.037	7310.037	7310.037	7310.037
0.5	7219.733	7314.628	7330.699	7319.220	7333.761
1.0	7222.028	7315.394	7331.465	7319.220	7332.995
1.5	7225.090	7314.628	7332.230	7316.924	7330.699
2.0	7224.324	7316.159	7330.699	7317.690	7331.465
2.5	7222.794	7314.628	7331.465	7316.159	7329.169
3.0	7222.028	7311.567	7329.934	7316.924	7330.699
3.5	7219.733	7306.975	7329.169	7316.924	7330.699
4.0	7214.376	7304.680	7326.873	7319.985	7332.230
4.5	7207.488	7300.088	7323.812	7321.516	7333.761
5.0	7198.304	7294.731	7321.516	7319.985	7331.465
5.5	7191.417	7290.139	7318.455	7317.690	7328.404
6.0	7186.060	7285.547	7314.628	7312.332	7322.281
6.5	7178.407	7278.660	7310.802	7306.975	7313.863
7.0	7168.458	7271.007	7303.149	7299.323	7303.914
7.5	7160.040	7264.119	7296.261	7289.374	7293.200
8.0	7152.387	7255.701	7286.313	7278.660	7283.252
8.5	7148.561	7246.518	7277.129	7267.946	7275.599
9.0	7142.438	7236.569	7267.180	7257.232	7266.415
9.5	7134.020	7228.916	7258.762	7249.579	7259.528
10.0	7124.837	7222.028	7249.579	7240.395	7250.344
10.5	7116.419	7214.376	7238.865	7228.916	7239.630
11.0	7107.235	7206.723	7226.620	7215.906	7228.151
11.5	7099.582	7198.304	7214.376	7203.662	7210.549
12.0	7085.042	7187.590	7204.427	7187.590	7187.590
12.5	7068.971	7176.876	7190.652	7166.162	7169.224
13.0	7052.900	7164.632	7176.111	7144.734	7149.326
13.5	7036.063	7147.795	7161.571	7126.367	7127.133
14.0	7017.696	7131.724	7146.265	7105.705	7106.470
14.5	6993.207	7115.653	7127.898	7085.042	7088.868
15.0	6975.606	7099.582	7110.296	7064.379	7075.093
15.5	6965.657	7081.981	7089.634	7044.481	7061.318
16.0	6951.116	7062.083	7068.971	7026.880	7044.481
16.5	6935.811	7043.716	7044.481	7009.278	7029.176
17.0	6925.862	7024.584	7023.053	6991.677	7011.574
17.5	6909.791	7006.217	7000.095	6971.779	6994.738
18.0	6891.424	6984.789	6975.606	6953.412	6974.840
18.5	6871.526	6964.126	6954.177	6931.219	6948.820
19.0	6847.802	6944.229	6927.392	6908.260	6924.331
19.5	6821.783	6923.566	6902.138	6886.067	6904.434
20.0	6797.293	6902.903	6877.649	6862.343	6883.006
20.5	6773.569	6880.710	6855.455	6839.384	6861.578
21.0	6750.611	6856.986	6832.497	6817.956	6838.619
21.5	6723.826	6833.262	6808.773	6796.528	6813.364
22.0	6697.806	6809.538	6785.049	6773.569	6788.110
22.5	6675.612	6784.283	6759.794	6749.845	6765.151
23.0	6653.419	6758.264	6731.478	6722.295	6737.601
23.5	6631.226	6729.183	6703.928	6697.806	6713.112
24.0	6603.675	6703.163	6674.082	6673.317	6686.326
24.5	6579.951	6677.143	6643.470	6645.766	6661.072
25.0	6553.931	6645.001	6610.563	6620.512	6631.991
25.5	6524.085	6618.216	6581.482	6592.196	6604.441
26.0	6489.647	6591.431	6553.166	6563.880	6573.829
26.5	6452.148	6556.227	6525.616	6534.034	6543.983

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**CANDELA TABULATION - (Cont.)**

27.0	6417.710	6521.789	6495.770	6504.953	6514.136
27.5	6384.037	6485.821	6468.219	6475.872	6485.056
28.0	6351.895	6449.852	6438.373	6448.322	6455.975
28.5	6324.345	6413.884	6406.996	6418.475	6424.598
29.0	6293.733	6378.680	6374.854	6383.272	6393.986
29.5	6263.122	6343.477	6342.712	6351.130	6366.436
30.0	6232.510	6304.447	6308.274	6317.457	6334.294
30.5	6201.899	6268.479	6276.897	6283.019	6305.213
31.0	6168.991	6228.684	6245.520	6250.877	6273.071
31.5	6132.257	6189.654	6212.613	6217.970	6240.928
32.0	6093.993	6154.451	6178.175	6184.297	6207.256
32.5	6054.198	6116.952	6145.267	6154.451	6172.052
33.0	6012.872	6080.218	6115.421	6121.543	6139.910
33.5	5973.077	6041.188	6080.983	6087.871	6110.829
34.0	5932.517	5999.863	6043.484	6052.667	6077.157
34.5	5894.253	5959.302	6005.220	6017.464	6041.953
35.0	5859.049	5917.211	5963.129	5983.026	6004.454
35.5	5826.142	5875.121	5914.916	5947.058	5970.782
36.0	5786.347	5829.968	5875.886	5911.089	5935.578
36.5	5745.021	5784.816	5838.387	5873.590	5898.079
37.0	5697.574	5739.664	5797.061	5836.856	5861.345
37.5	5646.299	5695.278	5754.970	5800.122	5822.316
38.0	5597.321	5651.656	5717.471	5761.858	5781.755
38.5	5547.577	5607.270	5681.503	5722.063	5737.369
39.0	5503.956	5562.883	5639.412	5679.207	5696.043
39.5	5462.630	5515.435	5592.729	5634.055	5655.483
40.0	5419.774	5465.691	5546.046	5591.198	5613.392
40.5	5375.387	5415.947	5501.660	5547.577	5573.597
41.0	5334.061	5366.204	5456.508	5500.129	5533.037
41.5	5283.552	5315.695	5408.294	5456.508	5486.354
42.0	5227.686	5265.951	5359.316	5409.825	5438.906
42.5	5167.229	5215.442	5309.572	5363.142	5392.223
43.0	5108.301	5164.167	5262.124	5316.460	5347.071
43.5	5053.201	5109.832	5213.146	5269.012	5302.685
44.0	5004.222	5058.558	5168.759	5223.095	5261.359
44.5	4963.662	5008.049	5121.311	5181.769	5216.972
45.0	4921.571	4954.478	5073.863	5138.913	5165.698
45.5	4875.654	4902.439	5022.589	5087.639	5119.015
46.0	4821.318	4848.869	4965.192	5031.007	5068.506
46.5	4765.452	4793.002	4904.735	4984.325	5020.293
47.0	4706.525	4739.432	4853.460	4936.111	4973.611
47.5	4653.720	4688.158	4802.186	4885.602	4923.867
48.0	4605.507	4638.414	4747.850	4837.389	4872.592
48.5	4558.059	4593.262	4694.280	4789.941	4811.369
49.0	4507.550	4531.274	4643.771	4740.963	4733.310
49.5	4453.214	4465.459	4594.027	4691.984	4643.006
50.0	4385.104	4410.358	4541.988	4639.179	4534.335
50.5	4323.115	4362.145	4486.122	4582.548	4401.940
51.0	4264.953	4304.748	4430.256	4513.672	4249.648
51.5	4214.444	4248.882	4372.094	4429.490	4103.477
52.0	4166.231	4188.424	4316.993	4331.533	3985.623
52.5	4111.130	4130.263	4261.127	4204.496	3873.891
53.0	4047.611	4067.509	4203.730	4059.091	3706.293
53.5	3982.562	4009.347	4148.629	3907.564	3480.533
54.0	3922.104	3956.542	4090.468	3779.760	3222.630
54.5	3871.595	3898.380	4031.540	3669.559	3009.115

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55.0	3821.086	3830.269	3974.909	3531.807	2859.118
55.5	3756.802	3767.516	3916.747	3335.893	2745.090
56.0	3687.160	3717.007	3860.116	3091.766	2634.123
56.5	3628.999	3663.436	3802.719	2864.475	2495.606
57.0	3580.020	3603.744	3742.261	2703.765	2355.558
57.5	3524.919	3537.164	3675.681	2588.971	2239.234
58.0	3461.400	3472.114	3604.509	2495.606	2167.297
58.5	3390.228	3410.126	3517.266	2381.578	2122.145
59.0	3332.832	3349.668	3417.014	2225.459	2084.646
59.5	3276.966	3284.619	3302.986	2096.125	2031.841
60.0	3205.029	3216.508	3168.295	2019.597	1961.435
60.5	3136.153	3158.346	3047.379	1974.445	1871.896
61.0	3074.164	3094.827	2933.351	1936.180	1760.929
61.5	3019.829	3029.012	2800.956	1880.314	1643.840
62.0	2954.779	2959.371	2657.082	1808.377	1526.751
62.5	2874.424	2888.964	2471.117	1714.246	1371.397
63.0	2804.017	2828.507	2261.428	1597.157	1137.984
63.5	2748.151	2768.814	2091.534	1483.895	949.723
64.0	2680.041	2699.173	1975.975	1370.632	837.991
64.5	2614.991	2637.950	1887.967	1202.268	735.519
65.0	2553.768	2575.196	1786.184	981.865	579.017
65.5	2472.647	2504.024	1658.380	829.573	501.723
66.0	2403.771	2438.209	1551.240	736.590	484.428
66.5	2344.079	2378.517	1486.956	599.604	476.469
67.0	2279.029	2311.937	1436.447	502.488	469.505
67.5	2210.919	2246.122	1383.642	467.362	462.617
68.0	2140.512	2186.430	1315.531	457.719	456.189
68.5	2079.289	2116.023	1219.105	450.066	449.913
69.0	2019.597	2052.504	1108.903	442.949	443.638
69.5	1953.016	1987.454	1014.773	436.291	437.209
70.0	1887.967	1926.997	885.439	429.939	430.857
70.5	1825.213	1858.121	719.524	423.434	424.735
71.0	1770.113	1786.184	612.614	417.388	418.613
71.5	1706.594	1711.185	531.952	411.343	411.725
72.0	1643.075	1631.595	439.658	404.532	405.067
72.5	1580.321	1529.812	394.047	398.027	397.950
73.0	1521.394	1423.437	382.185	391.445	390.221
73.5	1462.466	1332.367	374.303	384.404	382.415
74.0	1403.539	1235.941	366.573	376.828	373.843
74.5	1345.377	1130.331	359.303	368.640	365.349
75.0	1280.328	995.640	351.956	360.298	356.471
75.5	1220.635	901.510	344.916	351.727	347.211
76.0	1160.943	832.634	338.104	342.849	337.798
76.5	1097.424	757.330	330.758	333.742	328.079
77.0	1033.905	677.433	323.411	324.406	318.437
77.5	969.621	625.394	315.528	314.993	308.488
78.0	897.684	561.951	307.340	305.274	298.539
78.5	837.991	482.514	298.539	295.095	288.284
79.0	785.186	421.215	289.662	285.147	278.259
79.5	730.391	332.518	280.555	275.198	268.004
80.0	675.061	285.835	271.142	264.943	257.520
80.5	619.654	242.137	261.729	254.382	247.188
81.0	563.405	227.291	251.933	243.897	237.852
81.5	507.922	218.031	241.678	233.566	228.898
82.0	457.949	208.388	230.964	223.082	216.959
82.5	413.332	198.669	220.250	212.674	206.398

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**CANDELA TABULATION - (Cont.)**

83.0	365.349	189.179	208.847	201.960	196.143
83.5	318.513	179.307	197.521	191.399	185.659
84.0	273.285	169.205	185.812	180.379	174.868
84.5	231.041	158.491	174.333	168.899	163.619
85.0	189.026	147.701	162.471	156.502	151.298
85.5	167.216	136.221	149.767	143.185	138.670
86.0	143.262	124.359	136.374	129.181	124.972
86.5	108.441	111.962	121.375	114.028	111.120
87.0	90.228	99.028	105.457	98.187	96.044
87.5	78.748	85.559	88.467	82.115	79.820
88.0	67.345	70.789	71.478	64.437	61.606
88.5	54.871	54.871	54.182	45.305	41.785
89.0	40.101	39.565	36.887	29.387	27.015
89.5	25.101	26.556	23.724	20.127	19.515
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-L180-850-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-L180-850-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-L180-850-HE-DIM-UNV\_.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	2692.47	N.A.	14.00
0-30	5742.59	N.A.	29.80
0-40	9462.6	N.A.	49.10
0-60	16616.99	N.A.	86.20
0-80	19110.18	N.A.	99.10
0-90	19283.77	N.A.	100.00
10-90	18589.47	N.A.	96.40
20-40	6770.13	N.A.	35.10
20-50	10662.88	N.A.	55.30
40-70	8953.99	N.A.	46.40
60-80	2493.19	N.A.	12.90
70-80	693.59	N.A.	3.60
80-90	173.59	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	19283.77	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	694.31
10-20	1998.17
20-30	3050.11
30-40	3720.02
40-50	3892.75
50-60	3261.63
60-70	1799.6
70-80	693.59
80-90	173.59
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-2-L180-850-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

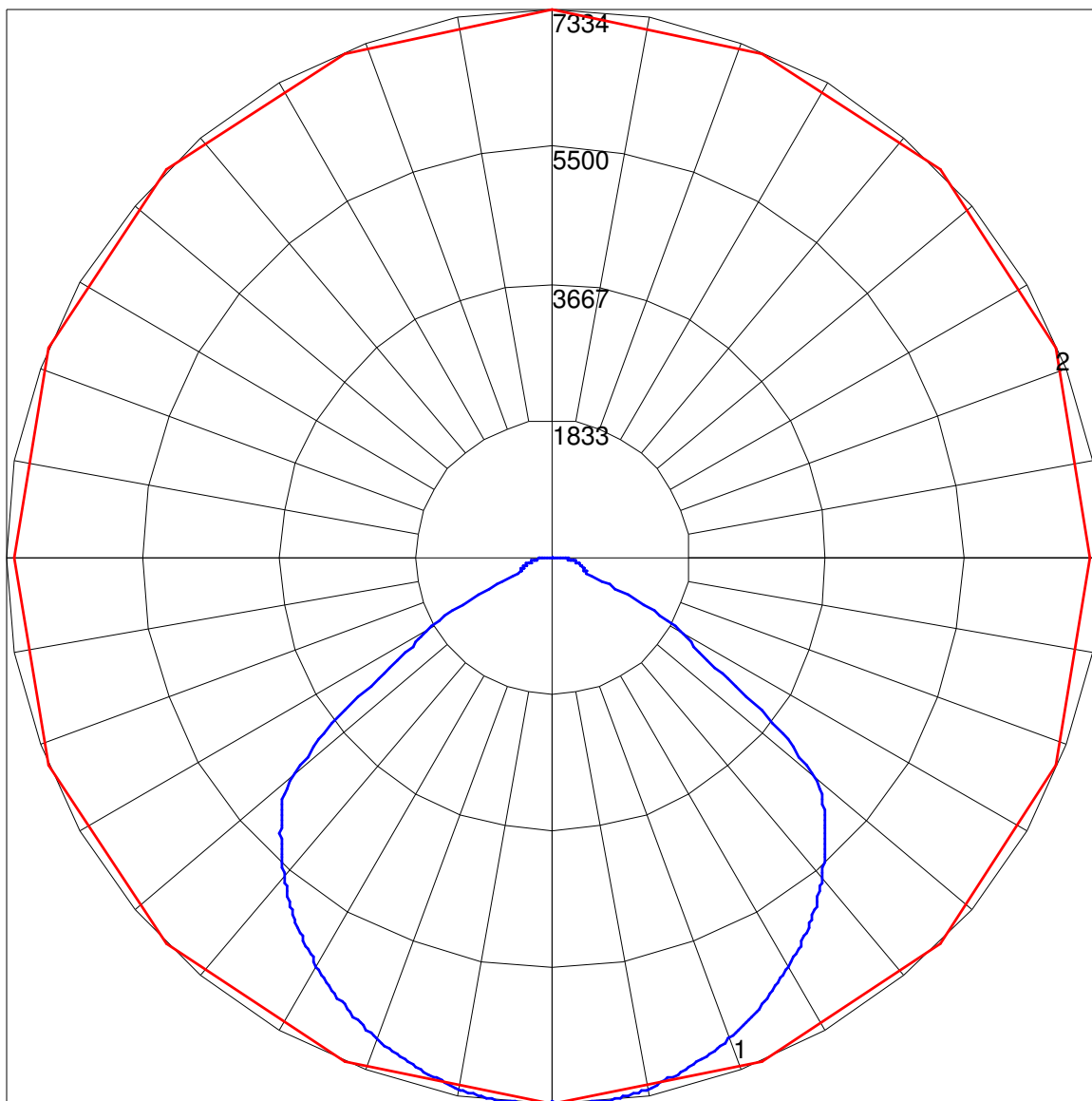
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : GS-2-L180-850-HE-DIM-UNV\_.IES**

**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					UGR Viewed Endwise				
X=2H	Y=2H	25.1	26.7	25.5	27.0	27.3	22.7	24.3	23.1	24.6	24.9
	3H	26.8	28.2	27.2	28.5	28.9	22.8	24.2	23.2	24.6	24.9
	4H	27.3	28.7	27.7	29.0	29.4	22.9	24.2	23.3	24.6	25.0
	6H	27.6	28.8	28.0	29.2	29.6	23.0	24.3	23.5	24.6	25.0
	8H	27.7	28.8	28.1	29.2	29.6	23.1	24.3	23.5	24.7	25.1
	12H	27.7	28.8	28.1	29.2	29.6	23.2	24.3	23.6	24.7	25.1
4H	2H	25.4	26.7	25.8	27.0	27.4	23.3	24.7	23.7	25.0	25.4
	3H	27.2	28.3	27.6	28.7	29.1	23.5	24.6	23.9	25.0	25.4
	4H	27.8	28.8	28.2	29.2	29.6	23.7	24.6	24.1	25.0	25.5
	6H	28.2	29.0	28.6	29.4	29.9	23.9	24.7	24.3	25.1	25.6
	8H	28.2	29.0	28.7	29.5	29.9	23.9	24.7	24.4	25.2	25.6
	12H	28.3	29.0	28.8	29.5	29.9	24.0	24.7	24.5	25.2	25.7
8H	4H	27.8	28.6	28.2	29.0	29.5	23.8	24.6	24.3	25.1	25.5
	6H	28.1	28.8	28.6	29.3	29.7	24.1	24.8	24.6	25.2	25.7
	8H	28.2	28.8	28.7	29.3	29.8	24.2	24.8	24.7	25.3	25.8
	12H	28.3	28.8	28.8	29.3	29.9	24.4	24.9	24.9	25.4	26.0
12H	4H	27.7	28.5	28.2	28.9	29.4	23.9	24.6	24.3	25.0	25.5
	6H	28.1	28.7	28.6	29.2	29.7	24.1	24.7	24.6	25.2	25.7
	8H	28.2	28.7	28.7	29.2	29.8	24.3	24.8	24.8	25.3	25.9

Maximum UGR = 29.9

POLAR GRAPH



Maximum Candela = 7333.761 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.)