



IES INDOOR REPORT

PHOTOMETRIC FILENAME : GS-2-L180-850-HA-CA-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] 14617179.01
[TESTLAB] UL Verification Services Inc.
[ISSUEDATE] 2023-03-13
[TESTDATE] 1/6/2023
[MANUFAC] H E Williams Inc
[LUMCAT] GS-2-L180-850-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	18542
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	160
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	36995	38140	38830
55	35410	36835	26495
65	32119	22465	7282
75	26294	7228	7321
85	11528	9908	9227

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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	7028.896	7028.896	7028.896	7028.896	7028.896
0.5	6942.065	7033.312	7048.765	7037.727	7051.708
1.0	6944.273	7034.047	7049.500	7037.727	7050.972
1.5	6947.216	7033.312	7050.236	7035.519	7048.765
2.0	6946.481	7034.783	7048.765	7036.255	7049.500
2.5	6945.009	7033.312	7049.500	7034.783	7047.293
3.0	6944.273	7030.368	7048.029	7035.519	7048.765
3.5	6942.065	7025.953	7047.293	7035.519	7048.765
4.0	6936.914	7023.745	7045.085	7038.463	7050.236
4.5	6930.292	7019.330	7042.142	7039.934	7051.708
5.0	6921.462	7014.179	7039.934	7038.463	7049.500
5.5	6914.839	7009.764	7036.991	7036.255	7046.557
6.0	6909.688	7005.349	7033.312	7031.104	7040.670
6.5	6902.329	6998.726	7029.632	7025.953	7032.576
7.0	6892.763	6991.368	7022.274	7018.594	7023.010
7.5	6884.669	6984.745	7015.651	7009.028	7012.708
8.0	6877.310	6976.651	7006.085	6998.726	7003.142
8.5	6873.631	6967.820	6997.255	6988.424	6995.783
9.0	6867.744	6958.254	6987.689	6978.122	6986.953
9.5	6859.650	6950.896	6979.594	6970.764	6980.330
10.0	6850.819	6944.273	6970.764	6961.934	6971.500
10.5	6842.725	6936.914	6960.462	6950.896	6961.198
11.0	6833.895	6929.556	6948.688	6938.386	6950.160
11.5	6826.536	6921.462	6936.914	6926.612	6933.235
12.0	6812.555	6911.160	6927.348	6911.160	6911.160
12.5	6797.102	6900.858	6914.103	6890.556	6893.499
13.0	6781.649	6889.084	6900.122	6869.952	6874.367
13.5	6765.460	6872.895	6886.140	6852.291	6853.027
14.0	6747.799	6857.442	6871.423	6832.423	6833.159
14.5	6724.252	6841.989	6853.763	6812.555	6816.234
15.0	6707.327	6826.536	6836.838	6792.687	6802.989
15.5	6697.761	6809.611	6816.970	6773.554	6789.743
16.0	6683.780	6790.479	6797.102	6756.630	6773.554
16.5	6669.063	6772.819	6773.554	6739.705	6758.837
17.0	6659.497	6754.422	6752.950	6722.780	6741.913
17.5	6644.044	6736.762	6730.875	6703.648	6725.724
18.0	6626.383	6716.158	6707.327	6685.988	6706.592
18.5	6607.251	6696.290	6686.723	6664.648	6681.572
19.0	6584.439	6677.157	6660.968	6642.572	6658.025
19.5	6559.420	6657.289	6636.685	6621.232	6638.893
20.0	6535.873	6637.421	6613.138	6598.421	6618.289
20.5	6513.061	6616.081	6591.798	6576.345	6597.685
21.0	6490.986	6593.270	6569.722	6555.741	6575.609
21.5	6465.231	6570.458	6546.911	6535.137	6551.326
22.0	6440.212	6547.647	6524.099	6513.061	6527.043
22.5	6418.872	6523.363	6499.816	6490.250	6504.967
23.0	6397.532	6498.344	6472.589	6463.759	6478.476
23.5	6376.192	6470.382	6446.099	6440.212	6454.929
24.0	6349.701	6445.363	6417.400	6416.664	6429.174
24.5	6326.890	6420.344	6387.966	6390.173	6404.891
25.0	6301.871	6389.438	6356.324	6365.890	6376.928
25.5	6273.172	6363.683	6328.362	6338.664	6350.437
26.0	6240.059	6337.928	6301.135	6311.437	6321.003
26.5	6204.002	6304.078	6274.644	6282.738	6292.305

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CANDELA TABULATION - (Cont.)

27.0	6170.888	6270.965	6245.946	6254.776	6263.606
27.5	6138.511	6236.380	6219.455	6226.813	6235.644
28.0	6107.605	6201.794	6190.756	6200.323	6207.681
28.5	6081.114	6167.209	6160.586	6171.624	6177.511
29.0	6051.680	6133.360	6129.680	6137.775	6148.077
29.5	6022.245	6099.510	6098.774	6106.869	6121.586
30.0	5992.811	6061.982	6065.661	6074.491	6090.680
30.5	5963.377	6027.396	6035.491	6041.378	6062.718
31.0	5931.735	5989.132	6005.321	6010.472	6031.812
31.5	5896.414	5951.603	5973.679	5978.830	6000.906
32.0	5859.621	5917.754	5940.565	5946.452	5968.528
32.5	5821.357	5881.697	5908.924	5917.754	5934.679
33.0	5781.621	5846.376	5880.225	5886.112	5903.773
33.5	5743.356	5808.847	5847.112	5853.734	5875.810
34.0	5704.356	5769.111	5811.055	5819.885	5843.432
34.5	5667.563	5730.111	5774.262	5786.036	5809.583
35.0	5633.714	5689.639	5733.790	5752.922	5773.526
35.5	5602.072	5649.166	5687.431	5718.337	5741.148
36.0	5563.807	5605.751	5649.902	5683.752	5707.299
36.5	5524.071	5562.335	5613.845	5647.695	5671.242
37.0	5478.448	5518.920	5574.109	5612.374	5635.921
37.5	5429.146	5476.240	5533.637	5577.053	5598.392
38.0	5382.051	5434.297	5497.580	5540.260	5559.392
38.5	5334.220	5391.617	5462.995	5501.995	5516.712
39.0	5292.276	5348.937	5422.523	5460.787	5476.976
39.5	5252.540	5303.314	5377.636	5417.372	5437.976
40.0	5211.332	5255.484	5332.748	5376.164	5397.504
40.5	5168.653	5207.653	5290.069	5334.220	5359.239
41.0	5128.916	5159.822	5246.653	5288.597	5320.239
41.5	5080.350	5111.256	5200.294	5246.653	5275.352
42.0	5026.632	5063.425	5153.200	5201.766	5229.729
42.5	4968.500	5014.859	5105.369	5156.879	5184.841
43.0	4911.839	4965.556	5059.746	5111.992	5141.426
43.5	4858.857	4913.310	5012.651	5066.369	5098.746
44.0	4811.762	4864.008	4969.971	5022.217	5059.010
44.5	4772.762	4815.442	4924.348	4982.481	5016.330
45.0	4732.290	4763.932	4878.725	4941.273	4967.028
45.5	4688.139	4713.894	4829.423	4891.971	4922.141
46.0	4635.893	4662.384	4774.234	4837.517	4873.574
46.5	4582.175	4608.666	4716.101	4792.630	4827.215
47.0	4525.514	4557.156	4666.799	4746.271	4782.328
47.5	4474.740	4507.854	4617.496	4697.705	4734.497
48.0	4428.381	4460.023	4565.251	4651.346	4685.195
48.5	4382.758	4416.608	4513.741	4605.723	4626.327
49.0	4334.192	4357.003	4465.174	4558.628	4551.269
49.5	4281.946	4293.720	4417.344	4511.533	4464.438
50.0	4216.455	4240.738	4367.305	4460.759	4359.947
50.5	4156.851	4194.379	4313.588	4406.306	4232.644
51.0	4100.925	4139.190	4259.870	4340.079	4086.208
51.5	4052.359	4085.472	4203.945	4259.135	3945.660
52.0	4006.000	4027.340	4150.964	4164.945	3832.338
52.5	3953.018	3971.415	4097.246	4042.793	3724.903
53.0	3891.942	3911.075	4042.057	3902.980	3563.751
53.5	3829.395	3855.150	3989.075	3757.281	3346.673
54.0	3771.262	3804.376	3933.150	3634.393	3098.690
54.5	3722.695	3748.450	3876.489	3528.430	2893.386

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CANDELA TABULATION - (Cont.)

55.0	3674.129	3682.959	3822.036	3395.975	2749.158
55.5	3612.317	3622.619	3766.111	3207.596	2639.515
56.0	3545.354	3574.053	3711.658	2972.858	2532.816
56.5	3489.429	3522.543	3656.468	2754.309	2399.626
57.0	3442.334	3465.146	3598.336	2599.779	2264.965
57.5	3389.353	3401.126	3534.316	2489.401	2153.115
58.0	3328.277	3338.579	3465.882	2399.626	2083.944
58.5	3259.842	3278.974	3381.994	2289.984	2040.529
59.0	3204.653	3220.842	3285.597	2139.869	2004.472
59.5	3150.935	3158.294	3175.954	2015.510	1953.698
60.0	3081.765	3092.803	3046.444	1941.924	1885.999
60.5	3015.538	3036.878	2930.179	1898.508	1799.904
61.0	2955.934	2975.802	2820.536	1861.716	1693.205
61.5	2903.688	2912.518	2693.233	1807.998	1580.619
62.0	2841.140	2845.555	2554.892	1738.828	1468.033
62.5	2763.875	2777.856	2376.079	1648.317	1318.654
63.0	2696.176	2719.724	2174.454	1535.731	1094.218
63.5	2642.459	2662.327	2011.094	1426.825	913.197
64.0	2576.968	2595.364	1899.980	1317.918	805.762
64.5	2514.420	2536.496	1815.357	1156.030	707.231
65.0	2455.551	2476.155	1717.488	944.103	556.749
65.5	2377.551	2407.721	1594.600	797.668	482.427
66.0	2311.324	2344.437	1491.580	708.261	465.797
66.5	2253.927	2287.040	1429.768	576.543	458.144
67.0	2191.379	2223.021	1381.202	483.163	451.448
67.5	2125.888	2159.737	1330.428	449.387	444.825
68.0	2058.189	2102.341	1264.936	440.115	438.644
68.5	1999.321	2034.642	1172.219	432.757	432.610
69.0	1941.924	1973.566	1066.255	425.913	426.576
69.5	1877.905	1911.018	975.745	419.512	420.395
70.0	1815.357	1852.885	851.385	413.404	414.287
70.5	1755.017	1786.658	691.852	407.149	408.400
71.0	1702.035	1717.488	589.053	401.336	402.513
71.5	1640.959	1645.374	511.494	395.523	395.891
72.0	1579.883	1568.845	422.749	388.973	389.489
72.5	1519.543	1470.976	378.892	382.719	382.645
73.0	1462.882	1368.692	367.486	376.390	375.213
73.5	1406.221	1281.125	359.907	369.620	367.707
74.0	1349.560	1188.407	352.475	362.335	359.466
74.5	1293.635	1086.859	345.484	354.462	351.298
75.0	1231.087	957.349	338.420	346.441	342.762
75.5	1173.690	866.838	331.650	338.199	333.858
76.0	1116.294	800.611	325.101	329.663	324.807
76.5	1055.217	728.203	318.037	320.907	315.461
77.0	994.141	651.380	310.973	311.929	306.190
77.5	932.330	601.342	303.393	302.878	296.624
78.0	863.159	540.339	295.520	293.533	287.057
78.5	805.762	463.957	287.057	283.746	277.197
79.0	754.988	405.015	278.521	274.180	267.557
79.5	702.301	319.729	269.765	264.614	257.697
80.0	649.099	274.842	260.714	254.753	247.616
80.5	595.823	232.825	251.663	244.599	237.681
81.0	541.737	218.549	242.244	234.517	228.704
81.5	488.388	209.645	232.383	224.583	220.095
82.0	440.336	200.374	222.081	214.502	208.615
82.5	397.436	191.028	211.779	204.494	198.460

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CANDELA TABULATION - (Cont.)

83.0	351.298	181.904	200.815	194.192	188.600
83.5	306.263	172.411	189.924	184.038	178.519
84.0	262.774	162.698	178.666	173.441	168.143
84.5	222.155	152.396	167.628	162.403	157.326
85.0	181.756	142.020	156.222	150.483	145.479
85.5	160.785	130.982	144.007	137.679	133.337
86.0	137.752	119.577	131.130	124.212	120.165
86.5	104.271	107.656	116.707	109.643	106.846
87.0	86.757	95.220	101.401	94.410	92.350
87.5	75.720	82.269	85.065	78.957	76.750
88.0	64.755	68.067	68.729	61.959	59.236
88.5	52.761	52.761	52.099	43.563	40.178
89.0	38.559	38.044	35.468	28.257	25.976
89.5	24.136	25.534	22.812	19.353	18.764
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-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-L180-850-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-L180-850-HA-CA-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2588.92	N.A.	14.00
0-30	5521.73	N.A.	29.80
0-40	9098.68	N.A.	49.10
0-60	15977.91	N.A.	86.20
0-80	18375.21	N.A.	99.10
0-90	18542.13	N.A.	100.00
10-90	17874.53	N.A.	96.40
20-40	6509.75	N.A.	35.10
20-50	10252.79	N.A.	55.30
40-70	8609.62	N.A.	46.40
60-80	2397.3	N.A.	12.90
70-80	666.91	N.A.	3.60
80-90	166.92	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	18542.13	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	667.60
10-20	1921.32
20-30	2932.81
30-40	3576.95
40-50	3743.04
50-60	3136.19
60-70	1730.39
70-80	666.91
80-90	166.92
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-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-L180-850-HA-CA-DIM-UNV_.IES

UGR TABLE - CORRECTED

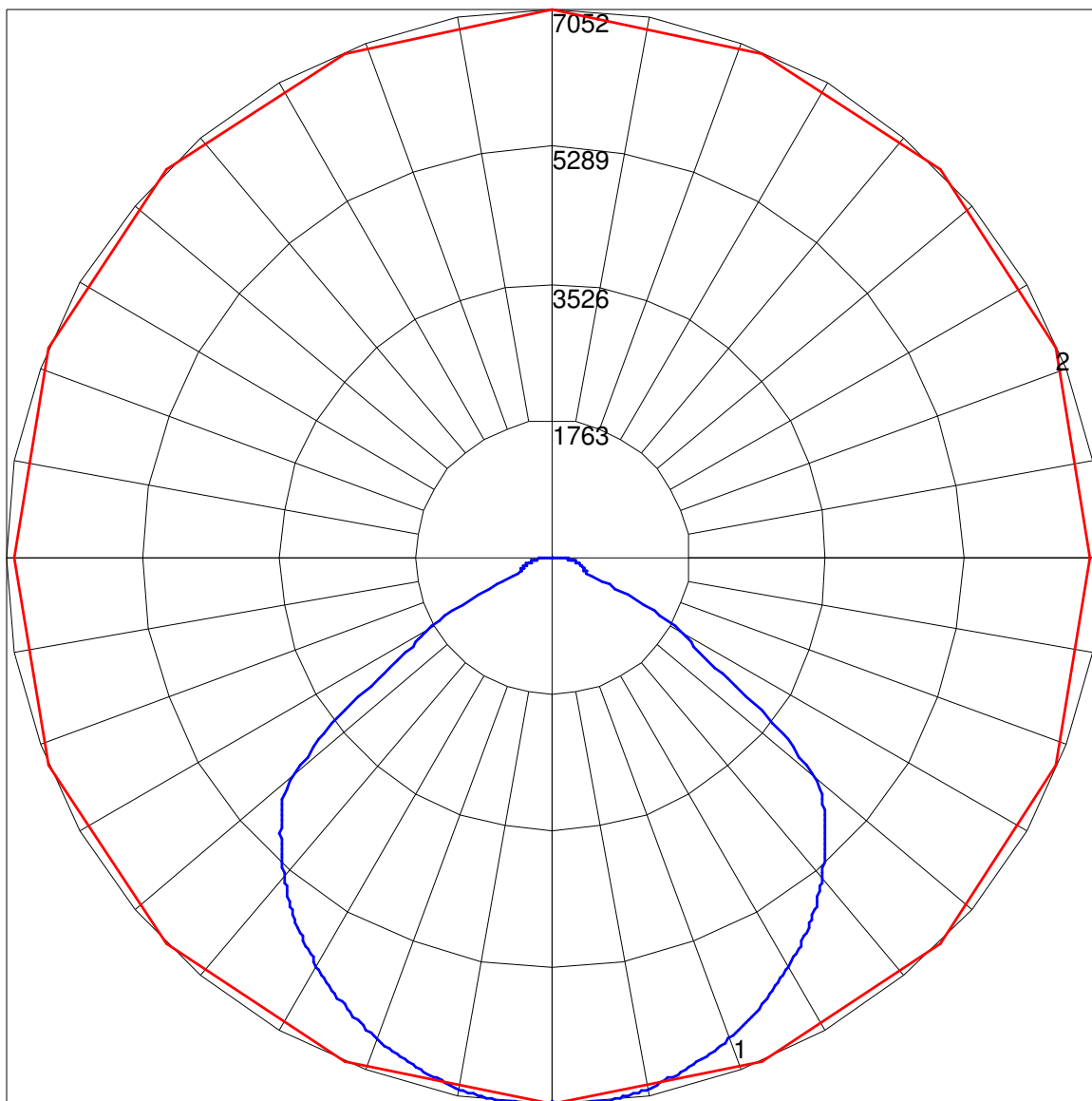
Reflectances

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					UGR Viewed Endwise				
X=2H	Y=2H	24.9	26.5	25.3	26.8	27.1	22.5	24.1	22.9	24.4	24.7
	3H	26.6	28.0	27.0	28.3	28.7	22.6	24.0	23.0	24.4	24.7
	4H	27.1	28.5	27.5	28.8	29.2	22.7	24.0	23.1	24.4	24.8
	6H	27.4	28.6	27.8	29.0	29.4	22.8	24.1	23.3	24.4	24.8
	8H	27.5	28.6	27.9	29.0	29.4	22.9	24.1	23.3	24.5	24.9
	12H	27.5	28.6	27.9	29.0	29.4	23.0	24.1	23.4	24.5	24.9
4H	2H	25.2	26.5	25.6	26.8	27.2	23.1	24.5	23.5	24.8	25.2
	3H	27.0	28.1	27.4	28.5	28.9	23.3	24.4	23.7	24.8	25.2
	4H	27.6	28.6	28.0	29.0	29.4	23.5	24.4	23.9	24.8	25.3
	6H	28.0	28.8	28.4	29.2	29.7	23.7	24.5	24.1	24.9	25.4
	8H	28.0	28.8	28.5	29.3	29.7	23.7	24.5	24.2	25.0	25.4
	12H	28.1	28.8	28.6	29.3	29.7	23.8	24.5	24.3	25.0	25.5
8H	4H	27.6	28.4	28.0	28.8	29.3	23.6	24.4	24.1	24.9	25.3
	6H	27.9	28.6	28.4	29.1	29.5	23.9	24.6	24.4	25.0	25.5
	8H	28.0	28.6	28.5	29.1	29.6	24.0	24.6	24.5	25.1	25.6
	12H	28.1	28.6	28.6	29.1	29.7	24.2	24.7	24.7	25.2	25.8
12H	4H	27.5	28.3	28.0	28.7	29.2	23.7	24.4	24.1	24.8	25.3
	6H	27.9	28.5	28.4	29.0	29.5	23.9	24.5	24.4	25.0	25.5
	8H	28.0	28.5	28.5	29.0	29.6	24.1	24.6	24.6	25.1	25.7

Maximum UGR = 29.7

POLAR GRAPH



Maximum Candela = 7051.708 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.)