



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : GS-2-L120-835-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-L120-835-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	11370
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	134
Total Luminaire Watts	85
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	20514	20193	20328
55	18897	18697	18349
65	16874	16719	15336
75	14103	13439	10939
85	10400	8270	6735

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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	5003.154	5003.154	5003.154	5003.154	5003.154
0.5	4958.704	5003.154	5013.032	5003.154	5013.032
1.0	4953.765	4998.215	5013.032	4998.215	5013.032
1.5	4953.765	4998.215	5008.093	4998.215	5008.093
2.0	4948.826	4993.276	5003.154	4993.276	5003.154
2.5	4948.826	4988.337	5003.154	4988.337	4998.215
3.0	4943.887	4983.398	4998.215	4983.398	4993.276
3.5	4935.984	4978.459	4988.337	4973.520	4978.459
4.0	4930.552	4973.520	4983.398	4968.582	4978.459
4.5	4924.625	4968.582	4978.459	4958.704	4968.582
5.0	4917.710	4958.704	4973.520	4953.765	4958.704
5.5	4909.314	4953.765	4963.643	4943.887	4948.826
6.0	4899.930	4943.887	4953.765	4933.021	4943.887
6.5	4890.052	4932.033	4943.887	4921.662	4930.552
7.0	4878.199	4920.180	4930.552	4910.302	4918.698
7.5	4863.876	4906.845	4916.229	4896.473	4906.351
8.0	4851.035	4892.522	4901.412	4882.150	4892.028
8.5	4836.712	4876.717	4885.607	4867.333	4877.211
9.0	4820.413	4859.925	4868.321	4851.528	4861.406
9.5	4803.127	4841.651	4851.528	4834.736	4844.120
10.0	4783.371	4822.883	4832.267	4817.450	4826.340
10.5	4763.615	4802.139	4813.005	4798.682	4806.584
11.0	4742.378	4781.395	4792.261	4778.926	4785.347
11.5	4720.646	4759.664	4771.518	4758.182	4765.097
12.0	4697.927	4736.945	4748.304	4735.957	4741.884
12.5	4675.702	4712.744	4724.598	4713.732	4718.671
13.0	4652.983	4688.543	4699.409	4689.037	4694.470
13.5	4628.782	4663.355	4673.726	4661.873	4668.294
14.0	4603.099	4636.190	4647.550	4633.227	4642.611
14.5	4576.923	4608.532	4620.386	4608.038	4614.953
15.0	4549.265	4581.368	4592.234	4580.874	4587.295
15.5	4520.619	4553.216	4563.588	4551.240	4559.143
16.0	4491.973	4524.076	4532.966	4521.113	4529.015
16.5	4461.352	4495.430	4502.839	4491.479	4497.406
17.0	4429.742	4465.303	4475.181	4460.364	4465.303
17.5	4398.133	4434.681	4443.077	4428.755	4432.706
18.0	4367.018	4403.072	4409.987	4396.651	4400.109
18.5	4334.421	4371.957	4378.377	4364.054	4366.524
19.0	4302.317	4340.347	4345.780	4330.963	4332.445
19.5	4269.720	4308.244	4313.677	4296.885	4299.354
20.0	4237.617	4275.153	4280.586	4263.300	4266.263
20.5	4205.020	4242.556	4247.495	4229.221	4232.184
21.0	4171.435	4209.959	4214.898	4195.142	4198.600
21.5	4139.826	4176.374	4181.313	4161.064	4164.027
22.0	4106.241	4143.777	4147.728	4126.985	4130.442
22.5	4074.138	4111.180	4113.650	4092.906	4096.363
23.0	4041.541	4077.595	4079.077	4057.840	4060.803
23.5	4008.944	4044.504	4043.517	4021.785	4025.243
24.0	3976.841	4012.401	4007.956	3985.731	3990.176
24.5	3946.713	3978.322	3970.914	3949.677	3954.122
25.0	3914.610	3944.738	3934.366	3913.622	3919.549
25.5	3881.519	3910.659	3897.818	3878.556	3884.482
26.0	3849.416	3876.580	3861.269	3843.489	3850.898
26.5	3817.313	3842.008	3824.721	3807.929	3816.819

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**CANDELA TABULATION - (Cont.)**

27.0	3785.210	3810.892	3788.173	3772.862	3783.234
27.5	3752.613	3781.258	3752.119	3737.302	3749.649
28.0	3720.016	3741.747	3716.558	3702.235	3716.064
28.5	3687.912	3707.668	3680.998	3667.663	3682.973
29.0	3652.352	3677.047	3645.931	3633.090	3649.882
29.5	3619.755	3641.980	3611.359	3599.505	3616.792
30.0	3587.158	3606.914	3577.280	3565.920	3582.219
30.5	3555.549	3573.823	3543.695	3533.323	3548.634
31.0	3523.445	3540.732	3509.616	3500.726	3515.049
31.5	3492.330	3507.641	3475.538	3467.635	3480.970
32.0	3461.709	3474.550	3441.953	3435.038	3447.386
32.5	3430.593	3442.447	3408.368	3402.935	3414.789
33.0	3399.972	3409.850	3374.783	3369.844	3382.191
33.5	3369.844	3378.240	3341.198	3337.247	3350.582
34.0	3339.223	3345.643	3308.107	3304.156	3318.973
34.5	3308.601	3313.046	3271.065	3270.571	3286.870
35.0	3277.486	3280.943	3238.962	3236.986	3254.767
35.5	3246.864	3248.840	3207.353	3203.402	3222.663
36.0	3215.749	3216.737	3173.768	3170.311	3190.066
36.5	3184.634	3183.646	3140.677	3136.726	3157.963
37.0	3154.012	3151.049	3107.586	3103.141	3124.872
37.5	3127.342	3117.464	3073.507	3069.556	3092.275
38.0	3097.708	3084.373	3040.416	3035.971	3059.678
38.5	3057.703	3050.788	3007.325	3002.880	3027.575
39.0	3024.612	3016.709	2975.716	2969.789	2994.978
39.5	2991.521	2983.125	2944.601	2936.698	2961.887
40.0	2957.442	2949.046	2909.040	2903.607	2928.796
40.5	2923.857	2915.461	2874.468	2870.516	2895.705
41.0	2890.272	2882.370	2841.871	2837.426	2862.614
41.5	2856.687	2848.291	2809.274	2803.841	2829.029
42.0	2822.609	2814.706	2776.183	2770.256	2795.444
42.5	2789.518	2781.122	2744.079	2736.671	2762.847
43.0	2755.933	2747.537	2711.976	2703.580	2730.744
43.5	2722.842	2713.952	2679.379	2669.501	2698.147
44.0	2689.751	2680.861	2647.770	2635.916	2665.056
44.5	2656.660	2645.794	2615.173	2602.826	2632.953
45.0	2624.063	2610.234	2583.070	2569.241	2600.356
45.5	2591.466	2578.625	2550.967	2535.656	2566.277
46.0	2558.375	2545.534	2518.863	2502.071	2533.186
46.5	2526.766	2508.986	2486.266	2468.486	2499.108
47.0	2494.169	2478.364	2454.163	2434.901	2465.029
47.5	2461.078	2447.249	2421.566	2401.810	2430.950
48.0	2428.481	2414.158	2389.463	2368.225	2395.884
48.5	2395.884	2380.573	2356.866	2335.135	2361.311
49.0	2363.287	2347.482	2324.763	2301.550	2327.232
49.5	2330.689	2314.391	2292.660	2269.447	2292.166
50.0	2297.599	2280.806	2260.556	2236.849	2257.593
50.5	2264.508	2247.221	2228.947	2202.771	2223.020
51.0	2230.923	2214.130	2196.844	2169.186	2187.954
51.5	2197.832	2181.039	2165.235	2137.083	2153.381
52.0	2164.247	2148.442	2133.132	2103.992	2117.821
52.5	2129.674	2115.351	2101.522	2070.901	2082.260
53.0	2095.596	2082.260	2069.419	2038.304	2046.700
53.5	2062.011	2049.169	2037.316	2005.707	2011.140
54.0	2028.426	2016.572	2005.213	1973.110	1975.579
54.5	1994.841	1983.975	1972.616	1939.525	1940.019

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**CANDELA TABULATION - (Cont.)**

55.0	1960.762	1951.378	1940.019	1906.434	1903.964
55.5	1927.671	1918.287	1907.916	1872.355	1868.404
56.0	1894.087	1885.196	1874.825	1838.770	1832.844
56.5	1860.502	1852.105	1839.758	1804.692	1797.283
57.0	1826.917	1819.508	1805.185	1770.613	1761.229
57.5	1793.826	1786.417	1775.058	1736.040	1725.174
58.0	1760.241	1753.326	1742.955	1701.468	1689.614
58.5	1726.656	1720.236	1709.864	1666.401	1653.066
59.0	1693.071	1686.651	1676.773	1630.841	1617.012
59.5	1659.486	1653.560	1643.682	1595.774	1581.451
60.0	1626.396	1619.975	1610.097	1560.214	1550.336
60.5	1592.811	1586.390	1577.500	1525.147	1511.318
61.0	1559.226	1552.805	1544.903	1490.081	1469.831
61.5	1525.641	1519.714	1511.318	1454.520	1432.295
62.0	1492.550	1485.636	1477.733	1418.960	1395.253
62.5	1458.471	1452.051	1444.148	1383.893	1357.717
63.0	1424.886	1418.960	1411.057	1348.333	1320.675
63.5	1390.808	1385.375	1378.460	1313.760	1283.139
64.0	1356.729	1352.284	1345.369	1278.694	1246.097
64.5	1323.144	1319.193	1311.785	1244.121	1209.054
65.0	1290.053	1286.102	1278.200	1209.054	1172.506
65.5	1256.962	1253.011	1245.603	1174.482	1136.452
66.0	1223.871	1219.920	1212.512	1139.909	1100.398
66.5	1190.780	1187.817	1179.421	1105.337	1064.343
67.0	1157.689	1155.220	1146.330	1067.801	1028.783
67.5	1125.092	1122.623	1113.239	1034.710	993.716
68.0	1092.495	1090.026	1079.654	1001.619	958.650
68.5	1060.392	1057.923	1046.563	967.540	924.077
69.0	1028.289	1025.326	1012.978	932.967	889.505
69.5	996.680	993.716	979.887	898.889	855.920
70.0	965.070	961.613	946.796	864.810	822.335
70.5	933.955	929.510	913.705	831.225	789.244
71.0	902.840	897.407	881.108	797.640	756.647
71.5	871.724	866.291	848.511	765.043	724.050
72.0	841.103	834.682	815.914	732.446	692.440
72.5	810.481	803.567	783.811	700.343	661.325
73.0	780.354	772.451	752.696	668.734	630.210
73.5	750.226	741.830	721.086	637.618	600.082
74.0	719.605	711.208	689.971	607.491	569.955
74.5	690.465	681.081	659.350	577.363	540.815
75.0	660.337	651.447	629.222	547.729	512.169
75.5	631.198	621.814	598.600	518.590	484.017
76.0	602.552	593.168	568.967	490.438	457.347
76.5	573.906	564.522	539.827	462.779	430.676
77.0	545.754	536.370	510.687	436.109	403.512
77.5	518.096	509.206	482.535	409.933	377.336
78.0	490.931	482.041	454.383	384.250	354.616
78.5	464.261	455.371	426.725	359.555	332.391
79.0	438.085	429.195	400.055	335.355	310.166
79.5	412.402	403.512	373.384	311.648	288.435
80.0	387.214	378.323	347.208	288.928	267.691
80.5	362.519	354.123	322.019	268.679	247.441
81.0	338.812	329.922	296.831	249.417	228.673
81.5	315.599	306.215	272.630	226.698	210.893
82.0	292.386	283.496	249.911	206.942	193.607
82.5	269.667	260.776	227.685	188.668	176.814

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**CANDELA TABULATION - (Cont.)**

83.0	247.441	238.551	206.448	171.381	161.010
83.5	226.204	217.314	185.704	155.083	146.193
84.0	204.966	196.570	165.949	139.772	132.364
84.5	184.223	175.827	147.675	124.955	119.029
85.0	163.973	156.071	130.388	111.620	106.187
85.5	143.723	136.809	114.090	98.285	93.346
86.0	124.461	118.535	99.273	85.444	80.505
86.5	104.706	100.261	84.456	73.096	69.639
87.0	85.938	82.974	70.627	63.219	60.749
87.5	68.157	67.170	58.280	54.328	52.847
88.0	51.859	52.353	48.402	44.944	44.451
88.5	37.042	39.512	38.524	38.030	37.536
89.0	23.213	28.646	31.115	33.091	33.091
89.5	13.829	20.250	25.189	28.646	28.646
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-L120-835-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-L120-835-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-L120-835-HA-ND-DIM-UNV.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1755.11	N.A.	15.40
0-30	3562.91	N.A.	31.30
0-40	5599.61	N.A.	49.20
0-60	9327.77	N.A.	82.00
0-80	11210.85	N.A.	98.60
0-90	11370.15	N.A.	100.00
10-90	10901.35	N.A.	95.90
20-40	3844.5	N.A.	33.80
20-50	5846.21	N.A.	51.40
40-70	4967.13	N.A.	43.70
60-80	1883.07	N.A.	16.60
70-80	644.12	N.A.	5.70
80-90	159.30	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	11370.15	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	468.80
10-20	1286.31
20-30	1807.8
30-40	2036.7
40-50	2001.71
50-60	1726.45
60-70	1238.96
70-80	644.12
80-90	159.30
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-L120-835-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-L120-835-HA-ND-DIM-UNV.IES**

**UGR TABLE - CORRECTED**

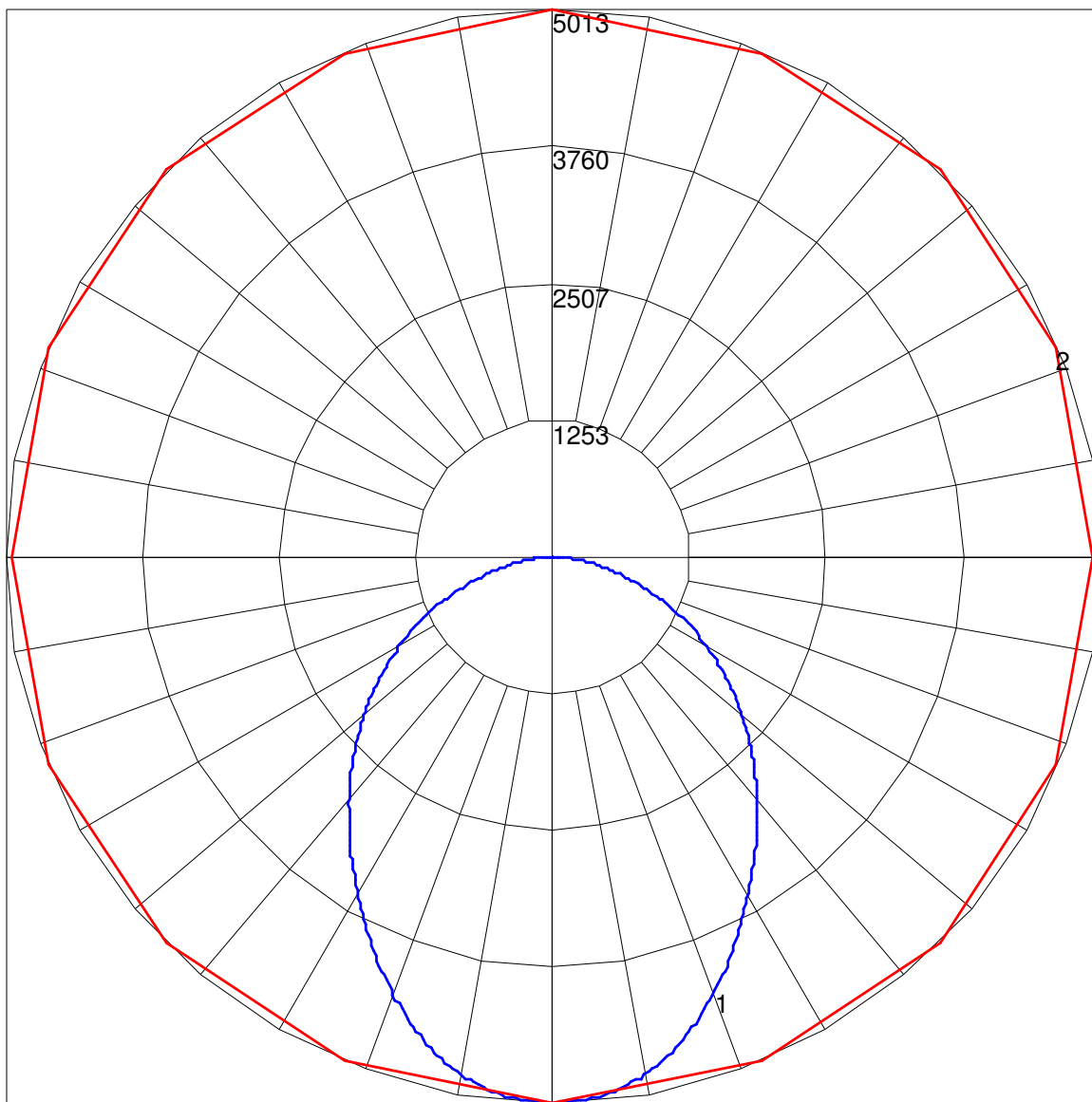
Reflectances

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					UGR Viewed Endwise				
X=2H	Y=2H	22.2	23.8	22.6	24.1	24.4	22.0	23.6	22.4	23.9	24.2
	3H	23.9	25.3	24.3	25.7	26.0	23.5	24.9	23.8	25.2	25.6
	4H	24.5	25.8	24.9	26.2	26.6	23.9	25.3	24.3	25.6	26.0
	6H	24.9	26.2	25.3	26.5	26.9	24.2	25.4	24.6	25.8	26.2
	8H	25.1	26.2	25.5	26.6	27.0	24.2	25.4	24.7	25.8	26.2
	12H	25.1	26.3	25.6	26.7	27.1	24.3	25.4	24.7	25.8	26.2
4H	2H	22.8	24.1	23.2	24.5	24.9	22.6	24.0	23.0	24.3	24.7
	3H	24.7	25.8	25.1	26.2	26.6	24.3	25.4	24.7	25.8	26.2
	4H	25.4	26.4	25.8	26.8	27.3	24.8	25.9	25.3	26.3	26.7
	6H	26.0	26.8	26.4	27.3	27.7	25.2	26.1	25.6	26.5	27.0
	8H	26.1	27.0	26.6	27.4	27.9	25.3	26.1	25.7	26.6	27.0
	12H	26.2	27.0	26.7	27.5	27.9	25.3	26.1	25.8	26.6	27.0
8H	4H	25.6	26.5	26.1	26.9	27.4	25.1	26.0	25.6	26.4	26.9
	6H	26.3	27.0	26.8	27.5	27.9	25.6	26.3	26.1	26.8	27.2
	8H	26.5	27.1	27.0	27.7	28.1	25.7	26.3	26.2	26.8	27.3
	12H	26.7	27.3	27.2	27.8	28.3	25.8	26.4	26.3	26.8	27.4
12H	4H	25.6	26.4	26.1	26.9	27.3	25.2	25.9	25.6	26.4	26.8
	6H	26.3	26.9	26.8	27.4	27.9	25.6	26.3	26.1	26.7	27.2
	8H	26.6	27.1	27.1	27.6	28.2	25.8	26.3	26.3	26.8	27.4

Maximum UGR = 28.3

POLAR GRAPH



Maximum Candela = 5013.032 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.)