



IES INDOOR REPORT

PHOTOMETRIC FILENAME : GS-2-L240-835-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-L240-835-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	21647
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	139
Total Luminaire Watts	156
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	39055	38445	38702
55	35977	35596	34935
65	32125	31830	29198
75	26851	25586	20826
85	19800	15745	12822

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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	9525.251	9525.251	9525.251	9525.251	9525.251
0.5	9440.624	9525.251	9544.057	9525.251	9544.057
1.0	9431.221	9515.848	9544.057	9515.848	9544.057
1.5	9431.221	9515.848	9534.654	9515.848	9534.654
2.0	9421.818	9506.445	9525.251	9506.445	9525.251
2.5	9421.818	9497.042	9525.251	9497.042	9515.848
3.0	9412.415	9487.639	9515.848	9487.639	9506.445
3.5	9397.370	9478.236	9497.042	9468.833	9478.236
4.0	9387.027	9468.833	9487.639	9459.430	9478.236
4.5	9375.743	9459.430	9478.236	9440.624	9459.430
5.0	9362.579	9440.624	9468.833	9431.221	9440.624
5.5	9346.594	9431.221	9450.027	9412.415	9421.818
6.0	9328.728	9412.415	9431.221	9391.728	9412.415
6.5	9309.922	9389.848	9412.415	9370.101	9387.027
7.0	9287.355	9367.280	9387.027	9348.474	9364.459
7.5	9260.086	9341.892	9359.758	9322.146	9340.952
8.0	9235.638	9314.623	9331.549	9294.877	9313.683
8.5	9208.369	9284.534	9301.459	9266.668	9285.474
9.0	9177.340	9252.564	9268.549	9236.578	9255.385
9.5	9144.429	9217.772	9236.578	9204.608	9222.474
10.0	9106.817	9182.041	9199.907	9171.698	9188.623
10.5	9069.205	9142.548	9163.235	9135.966	9151.011
11.0	9028.772	9103.056	9123.742	9098.354	9110.578
11.5	8987.399	9061.682	9084.250	9058.862	9072.026
12.0	8944.145	9018.429	9040.056	9016.548	9027.832
12.5	8901.831	8972.354	8994.921	8974.234	8983.637
13.0	8858.577	8926.279	8946.966	8927.219	8937.563
13.5	8812.503	8878.324	8898.070	8875.503	8887.727
14.0	8763.607	8826.607	8848.234	8820.965	8838.831
14.5	8713.771	8773.950	8796.518	8773.010	8786.174
15.0	8661.114	8722.234	8742.920	8721.293	8733.517
15.5	8606.577	8668.637	8688.383	8664.875	8679.920
16.0	8552.039	8613.159	8630.084	8607.517	8622.562
16.5	8493.741	8558.621	8572.726	8551.099	8562.383
17.0	8433.561	8501.263	8520.069	8491.860	8501.263
17.5	8373.382	8442.964	8458.949	8431.681	8439.203
18.0	8314.143	8382.785	8395.949	8370.561	8377.143
18.5	8252.083	8323.546	8335.770	8308.501	8313.203
19.0	8190.964	8263.367	8273.710	8245.501	8248.322
19.5	8128.904	8202.247	8212.591	8180.620	8185.322
20.0	8067.784	8139.247	8149.590	8116.680	8122.322
20.5	8005.724	8077.187	8086.590	8051.799	8057.441
21.0	7941.784	8015.127	8024.530	7986.918	7993.500
21.5	7881.604	7951.187	7960.590	7922.037	7927.679
22.0	7817.664	7889.127	7896.649	7857.157	7863.739
22.5	7756.544	7827.067	7831.769	7792.276	7798.858
23.0	7694.485	7763.127	7765.947	7725.514	7731.156
23.5	7632.425	7700.126	7698.246	7656.873	7663.455
24.0	7571.305	7639.007	7630.544	7588.231	7596.693
24.5	7513.947	7574.126	7560.021	7519.589	7528.051
25.0	7452.827	7510.186	7490.439	7450.947	7462.230
25.5	7389.827	7445.305	7420.857	7384.185	7395.469
26.0	7328.707	7380.424	7351.275	7317.424	7331.528
26.5	7267.588	7314.603	7281.692	7249.722	7266.648

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CANDELA TABULATION - (Cont.)

27.0	7206.468	7255.364	7212.110	7182.961	7202.707
27.5	7144.408	7198.946	7143.468	7115.259	7138.767
28.0	7082.348	7123.722	7075.766	7048.498	7074.826
28.5	7021.229	7058.841	7008.065	6982.677	7011.826
29.0	6953.527	7000.542	6941.303	6916.855	6948.826
29.5	6891.467	6933.781	6875.482	6852.915	6885.826
30.0	6829.407	6867.020	6810.601	6788.975	6820.004
30.5	6769.228	6804.019	6746.661	6726.915	6756.064
31.0	6708.109	6741.019	6681.780	6664.855	6692.123
31.5	6648.870	6678.019	6616.899	6601.855	6627.243
32.0	6590.571	6615.019	6552.959	6539.795	6563.302
32.5	6531.332	6553.899	6489.018	6478.675	6501.242
33.0	6473.033	6491.839	6425.078	6415.675	6439.182
33.5	6415.675	6431.660	6361.137	6353.615	6379.003
34.0	6357.376	6369.600	6298.137	6290.615	6318.824
34.5	6299.078	6307.540	6227.615	6226.674	6257.704
35.0	6239.839	6246.421	6166.495	6162.734	6196.585
35.5	6181.540	6185.301	6106.316	6098.793	6135.465
36.0	6122.301	6124.182	6042.375	6035.793	6073.405
36.5	6063.062	6061.181	5979.375	5971.853	6012.286
37.0	6004.763	5999.122	5916.375	5907.912	5949.286
37.5	5953.987	5935.181	5851.494	5843.972	5887.226
38.0	5897.569	5872.181	5788.494	5780.031	5825.166
38.5	5821.405	5808.240	5725.494	5717.031	5764.046
39.0	5758.404	5743.360	5665.315	5654.031	5701.986
39.5	5695.404	5679.419	5606.076	5591.031	5638.986
40.0	5630.523	5614.538	5538.374	5528.031	5575.986
40.5	5566.583	5550.598	5472.553	5465.030	5512.986
41.0	5502.643	5487.598	5410.493	5402.030	5449.986
41.5	5438.702	5422.717	5348.433	5338.090	5386.045
42.0	5373.821	5358.776	5285.433	5274.149	5322.105
42.5	5310.821	5294.836	5224.313	5210.209	5260.045
43.0	5246.881	5230.895	5163.194	5147.209	5198.925
43.5	5183.880	5166.955	5101.134	5082.328	5136.865
44.0	5120.880	5103.955	5040.955	5018.387	5073.865
44.5	5057.880	5037.193	4978.895	4955.387	5012.746
45.0	4995.820	4969.492	4917.775	4891.447	4950.686
45.5	4933.760	4909.312	4856.656	4827.506	4885.805
46.0	4870.760	4846.312	4795.536	4763.566	4822.805
46.5	4810.581	4776.730	4733.476	4699.625	4757.924
47.0	4748.521	4718.431	4672.357	4635.685	4693.043
47.5	4685.521	4659.192	4610.297	4572.685	4628.162
48.0	4623.461	4596.192	4549.177	4508.744	4561.401
48.5	4561.401	4532.252	4487.117	4445.744	4495.580
49.0	4499.341	4469.252	4425.998	4381.803	4430.699
49.5	4437.281	4406.251	4364.878	4320.684	4363.938
50.0	4374.281	4342.311	4303.759	4258.624	4298.117
50.5	4311.281	4278.370	4243.579	4193.743	4232.296
51.0	4247.340	4215.370	4182.460	4129.803	4165.534
51.5	4184.340	4152.370	4122.280	4068.683	4099.713
52.0	4120.400	4090.310	4061.161	4005.683	4032.011
52.5	4054.579	4027.310	4000.982	3942.683	3964.310
53.0	3989.698	3964.310	3939.862	3880.623	3896.608
53.5	3925.757	3901.310	3878.742	3818.563	3828.906
54.0	3861.817	3839.250	3817.623	3756.503	3761.205
54.5	3797.876	3777.190	3755.563	3692.563	3693.503

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55.0	3732.996	3715.130	3693.503	3629.563	3624.861
55.5	3669.996	3652.130	3632.383	3564.682	3557.159
56.0	3606.055	3589.130	3569.383	3500.741	3489.458
56.5	3542.115	3526.129	3502.622	3435.861	3421.756
57.0	3478.174	3464.070	3436.801	3370.980	3353.114
57.5	3415.174	3401.069	3379.442	3305.159	3284.472
58.0	3351.233	3338.069	3318.323	3239.338	3216.770
58.5	3287.293	3275.069	3255.323	3172.576	3147.188
59.0	3223.352	3211.129	3192.323	3104.874	3078.546
59.5	3159.412	3148.128	3129.322	3038.113	3010.844
60.0	3096.412	3084.188	3065.382	2970.411	2951.605
60.5	3032.471	3020.247	3003.322	2903.650	2877.322
61.0	2968.531	2956.307	2941.262	2836.889	2798.336
61.5	2904.590	2893.307	2877.322	2769.187	2726.873
62.0	2841.590	2828.426	2813.381	2701.485	2656.351
62.5	2776.709	2764.485	2749.441	2634.724	2584.888
63.0	2712.769	2701.485	2686.440	2567.022	2514.365
63.5	2647.888	2637.545	2624.381	2501.201	2442.902
64.0	2583.007	2574.545	2561.380	2434.440	2372.380
64.5	2519.067	2511.544	2497.440	2368.619	2301.857
65.0	2456.067	2448.544	2433.499	2301.857	2232.275
65.5	2393.067	2385.544	2371.440	2236.036	2163.633
66.0	2330.066	2322.544	2308.439	2170.215	2094.991
66.5	2267.066	2261.424	2245.439	2104.394	2026.349
67.0	2204.066	2199.364	2182.439	2032.931	1958.647
67.5	2142.006	2137.305	2119.439	1969.931	1891.886
68.0	2079.946	2075.245	2055.498	1906.931	1825.125
68.5	2018.827	2014.125	1992.498	1842.050	1759.304
69.0	1957.707	1952.065	1928.558	1776.229	1693.482
69.5	1897.528	1891.886	1865.558	1711.348	1629.542
70.0	1837.349	1830.766	1802.557	1646.467	1565.601
70.5	1778.110	1769.647	1739.557	1582.527	1502.601
71.0	1718.871	1708.527	1677.497	1518.586	1440.541
71.5	1659.632	1649.288	1615.437	1456.527	1378.482
72.0	1601.333	1589.109	1553.378	1394.467	1318.302
72.5	1543.034	1529.870	1492.258	1333.347	1259.063
73.0	1485.676	1470.631	1433.019	1273.168	1199.824
73.5	1428.317	1412.332	1372.840	1213.929	1142.466
74.0	1370.019	1354.034	1313.601	1156.570	1085.108
74.5	1314.541	1296.675	1255.302	1099.212	1029.630
75.0	1257.183	1240.257	1197.944	1042.794	975.092
75.5	1201.705	1183.839	1139.645	987.316	921.495
76.0	1147.167	1129.302	1083.227	933.719	870.719
76.5	1092.630	1074.764	1027.749	881.062	819.943
77.0	1039.033	1021.167	972.271	830.286	768.226
77.5	986.376	969.451	918.674	780.450	718.390
78.0	934.659	917.734	865.077	731.554	675.136
78.5	883.883	866.958	812.420	684.539	632.823
79.0	834.047	817.122	761.644	638.465	590.509
79.5	785.151	768.226	710.868	593.330	549.136
80.0	737.196	720.271	661.032	550.076	509.643
80.5	690.181	674.196	613.076	511.524	471.091
81.0	645.047	628.121	565.121	474.852	435.359
81.5	600.852	582.987	519.046	431.598	401.509
82.0	556.658	539.733	475.792	393.986	368.598
82.5	513.404	496.479	433.479	359.195	336.628

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CANDELA TABULATION - (Cont.)

83.0	471.091	454.165	393.046	326.285	306.538
83.5	430.658	413.733	353.553	295.255	278.329
84.0	390.225	374.240	315.941	266.105	252.001
84.5	350.732	334.747	281.150	237.896	226.613
85.0	312.180	297.135	248.240	212.508	202.165
85.5	273.628	260.463	217.210	187.120	177.717
86.0	236.956	225.672	189.001	162.672	153.269
86.5	199.344	190.881	160.792	139.165	132.582
87.0	163.612	157.971	134.463	120.359	115.657
87.5	129.762	127.881	110.956	103.433	100.612
88.0	98.732	99.672	92.150	85.567	84.627
88.5	70.523	75.224	73.343	72.403	71.463
89.0	44.194	54.537	59.239	63.000	63.000
89.5	26.328	38.552	47.955	54.537	54.537
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-L240-835-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-L240-835-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-L240-835-HA-ND-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	3341.46	N.A.	15.40
0-30	6783.24	N.A.	31.30
0-40	10660.81	N.A.	49.20
0-60	17758.67	N.A.	82.00
0-80	21343.76	N.A.	98.60
0-90	21647.05	N.A.	100.00
10-90	20754.52	N.A.	95.90
20-40	7319.35	N.A.	33.80
20-50	11130.31	N.A.	51.40
40-70	9456.66	N.A.	43.70
60-80	3585.09	N.A.	16.60
70-80	1226.3	N.A.	5.70
80-90	303.28	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	21647.05	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	892.53
10-20	2448.93
20-30	3441.79
30-40	3877.56
40-50	3810.96
50-60	3286.9
60-70	2358.79
70-80	1226.3
80-90	303.28
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-L240-835-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-L240-835-HA-ND-DIM-UNV_.IES

UGR TABLE - CORRECTED

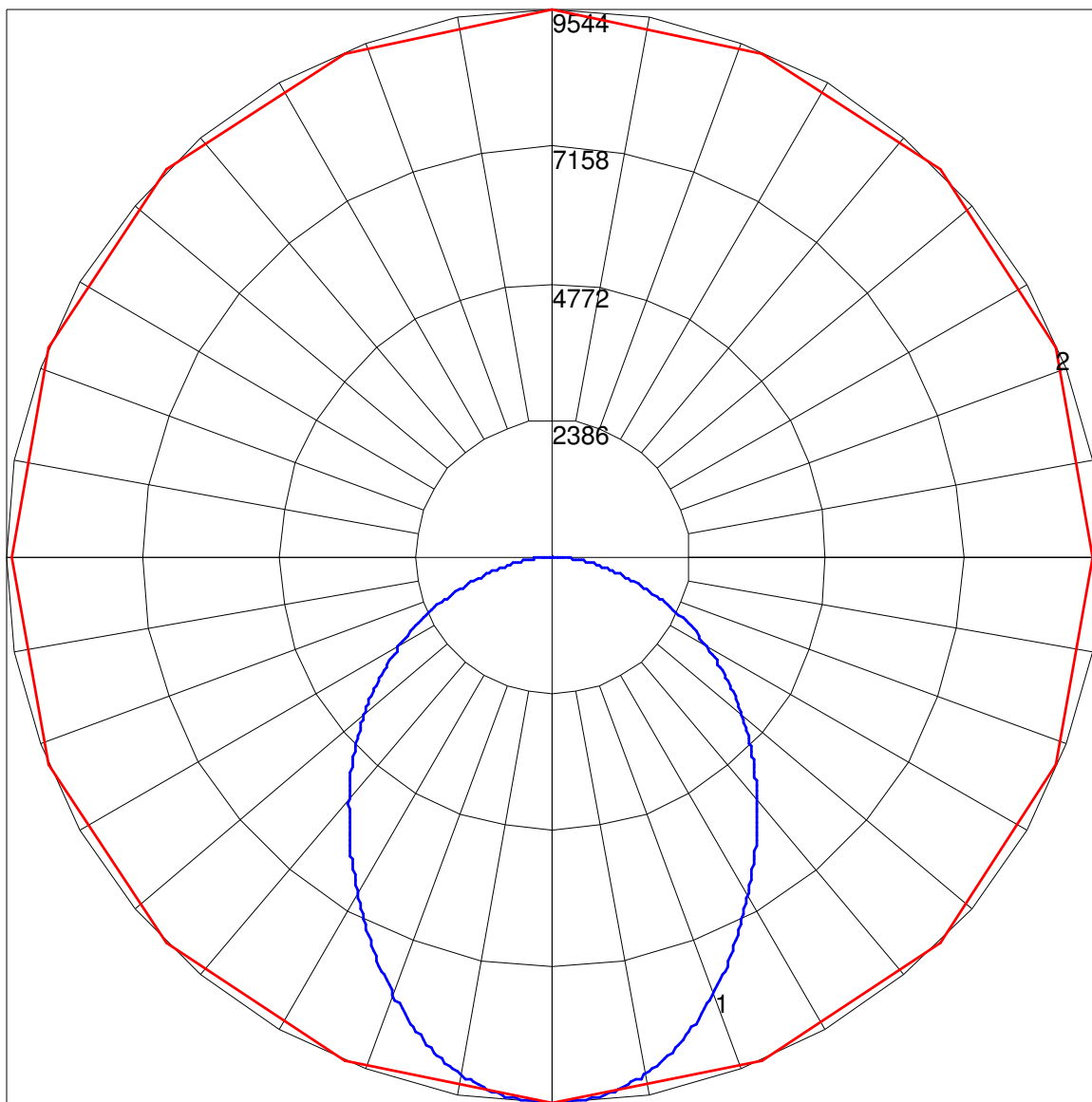
Reflectances

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	24.4	26.0	24.8	26.3	26.6	24.2	25.8	24.6	26.1	26.4
	3H	26.1	27.5	26.5	27.9	28.2	25.7	27.1	26.0	27.4	27.8
	4H	26.7	28.0	27.1	28.4	28.8	26.1	27.5	26.5	27.8	28.2
	6H	27.1	28.4	27.5	28.7	29.1	26.4	27.6	26.8	28.0	28.4
	8H	27.3	28.4	27.7	28.8	29.2	26.4	27.6	26.9	28.0	28.4
	12H	27.3	28.5	27.8	28.9	29.3	26.5	27.6	26.9	28.0	28.4
4H	2H	25.0	26.3	25.4	26.7	27.1	24.8	26.2	25.2	26.5	26.9
	3H	26.9	28.0	27.3	28.4	28.8	26.5	27.6	26.9	28.0	28.4
	4H	27.6	28.6	28.0	29.0	29.5	27.0	28.1	27.5	28.5	28.9
	6H	28.2	29.0	28.6	29.5	29.9	27.4	28.3	27.8	28.7	29.2
	8H	28.3	29.2	28.8	29.6	30.1	27.5	28.3	27.9	28.8	29.2
	12H	28.4	29.2	28.9	29.7	30.1	27.5	28.3	28.0	28.8	29.2
8H	4H	27.8	28.7	28.3	29.1	29.6	27.3	28.2	27.8	28.6	29.1
	6H	28.5	29.2	29.0	29.7	30.1	27.8	28.5	28.3	29.0	29.4
	8H	28.7	29.3	29.2	29.9	30.3	27.9	28.5	28.4	29.0	29.5
	12H	28.9	29.5	29.4	30.0	30.5	28.0	28.6	28.5	29.0	29.6
12H	4H	27.8	28.6	28.3	29.1	29.5	27.4	28.1	27.8	28.6	29.0
	6H	28.5	29.1	29.0	29.6	30.1	27.8	28.5	28.3	28.9	29.4
	8H	28.8	29.3	29.3	29.8	30.4	28.0	28.5	28.5	29.0	29.6

Maximum UGR = 30.5

POLAR GRAPH



Maximum Candela = 9544.057 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.)