



IES INDOOR REPORT

PHOTOMETRIC FILENAME : GS-4-L240-850-HA-CA-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] 14617179.01
[TESTLAB] UL Verification Services Inc.
[ISSUEDATE] 2023-03-14
[TESTDATE] 1/6/2023
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMCAT] GS-4-L240-850-HA-CA-DIM-UNV
[LUMINAIRE] White aluminum housing, prismatic lense enclosure
[LAMP] 448 White LEDs
[BALLAST] 0-10V LED DRIVER

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	25153
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	149
Total Luminaire Watts	169
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)	3.36 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	24898	25668	26133
55	23831	24790	17831
65	21616	15119	4901
75	17696	4864	4927
85	7758	6668	6210

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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	9534.790	9534.790	9534.790	9534.790	9534.790
0.5	9417.002	9540.779	9561.741	9546.768	9565.734
1.0	9419.997	9541.777	9562.739	9546.768	9564.736
1.5	9423.990	9540.779	9563.738	9543.774	9561.741
2.0	9422.992	9542.775	9561.741	9544.772	9562.739
2.5	9420.995	9540.779	9562.739	9542.775	9559.745
3.0	9419.997	9536.786	9560.743	9543.774	9561.741
3.5	9417.002	9530.797	9559.745	9543.774	9561.741
4.0	9410.015	9527.802	9556.750	9547.766	9563.738
4.5	9401.031	9521.813	9552.757	9549.763	9565.734
5.0	9389.053	9514.826	9549.763	9547.766	9562.739
5.5	9380.069	9508.837	9545.770	9544.772	9558.747
6.0	9373.082	9502.848	9540.779	9537.784	9550.761
6.5	9363.100	9493.864	9535.788	9530.797	9539.781
7.0	9350.123	9483.882	9525.806	9520.815	9526.804
7.5	9339.143	9474.898	9516.822	9507.839	9512.830
8.0	9329.161	9463.918	9503.846	9493.864	9499.853
8.5	9324.170	9451.939	9491.867	9479.889	9489.871
9.0	9316.184	9438.963	9478.891	9465.914	9477.893
9.5	9305.204	9428.981	9467.911	9455.932	9468.909
10.0	9293.226	9419.997	9455.932	9443.954	9456.930
10.5	9282.246	9410.015	9441.957	9428.981	9442.956
11.0	9270.267	9400.033	9425.986	9412.011	9427.983
11.5	9260.285	9389.053	9410.015	9396.040	9405.024
12.0	9241.320	9375.078	9397.039	9375.078	9375.078
12.5	9220.357	9361.103	9379.071	9347.129	9351.121
13.0	9199.395	9345.132	9360.105	9319.179	9325.168
13.5	9177.435	9323.172	9341.139	9295.222	9296.220
14.0	9153.478	9302.210	9321.175	9268.271	9269.269
14.5	9121.536	9281.248	9297.219	9241.320	9246.311
15.0	9098.577	9260.285	9274.260	9214.368	9228.343
15.5	9085.601	9237.327	9247.309	9188.415	9210.375
16.0	9066.635	9211.374	9220.357	9165.457	9188.415
16.5	9046.671	9187.417	9188.415	9142.498	9168.451
17.0	9033.694	9162.462	9160.466	9119.539	9145.493
17.5	9012.732	9138.505	9130.520	9093.586	9123.532
18.0	8988.775	9110.556	9098.577	9069.629	9097.579
18.5	8962.822	9083.604	9070.628	9040.682	9063.640
19.0	8931.878	9057.651	9035.691	9010.736	9031.698
19.5	8897.939	9030.700	9002.750	8981.788	9005.745
20.0	8865.997	9003.748	8970.808	8950.844	8977.795
20.5	8835.053	8974.801	8941.860	8920.898	8949.846
21.0	8805.107	8943.857	8911.914	8892.948	8919.900
21.5	8770.170	8912.912	8880.970	8864.999	8886.959
22.0	8736.231	8881.968	8850.026	8835.053	8854.019
22.5	8707.284	8849.028	8817.085	8804.109	8824.073
23.0	8678.336	8815.089	8780.152	8768.174	8788.138
23.5	8649.388	8777.157	8744.217	8736.231	8756.195
24.0	8613.453	8743.219	8705.287	8704.289	8721.258
24.5	8582.509	8709.280	8665.359	8668.354	8688.318
25.0	8548.570	8667.356	8622.437	8635.413	8650.386
25.5	8509.640	8632.419	8584.505	8598.480	8614.451
26.0	8464.721	8597.482	8547.572	8561.547	8574.523
26.5	8415.810	8551.565	8511.637	8522.617	8535.593

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CANDELA TABULATION - (Cont.)

27.0	8370.891	8506.646	8472.707	8484.685	8496.664
27.5	8326.970	8459.730	8436.772	8446.754	8458.732
28.0	8285.046	8412.815	8397.842	8410.819	8420.801
28.5	8249.111	8365.900	8356.916	8371.889	8379.874
29.0	8209.183	8319.983	8314.992	8325.972	8339.947
29.5	8169.255	8274.065	8273.067	8284.047	8304.011
30.0	8129.327	8223.157	8228.148	8240.127	8262.087
30.5	8089.399	8176.242	8187.222	8195.208	8224.156
31.0	8046.476	8124.336	8146.296	8153.283	8182.231
31.5	7998.563	8073.428	8103.374	8110.361	8140.307
32.0	7948.653	8027.510	8058.455	8066.440	8096.386
32.5	7896.747	7978.599	8015.532	8027.510	8050.469
33.0	7842.844	7930.685	7976.602	7984.588	8008.545
33.5	7790.938	7879.777	7931.683	7940.667	7970.613
34.0	7738.033	7825.874	7882.772	7894.750	7926.692
34.5	7688.123	7772.970	7832.862	7848.833	7880.775
35.0	7642.206	7718.069	7777.961	7803.914	7831.864
35.5	7599.283	7663.168	7715.074	7756.999	7787.943
36.0	7547.377	7604.274	7664.166	7710.083	7742.026
36.5	7493.474	7545.381	7615.255	7661.172	7693.114
37.0	7431.586	7486.487	7561.352	7613.258	7645.201
37.5	7364.707	7428.592	7506.451	7565.345	7594.292
38.0	7300.822	7371.694	7457.539	7515.435	7541.388
38.5	7235.939	7313.799	7410.624	7463.528	7483.492
39.0	7179.042	7255.903	7355.723	7407.629	7429.590
39.5	7125.139	7194.015	7294.833	7348.736	7376.685
40.0	7069.240	7129.132	7233.943	7292.837	7321.784
40.5	7011.345	7064.249	7176.047	7235.939	7269.878
41.0	6957.442	6999.366	7117.154	7174.051	7216.973
41.5	6891.561	6933.485	7054.267	7117.154	7156.083
42.0	6818.692	6868.602	6990.382	7056.264	7094.195
42.5	6739.835	6802.721	6925.500	6995.373	7033.305
43.0	6662.973	6735.842	6863.611	6934.483	6974.411
43.5	6591.103	6664.970	6799.727	6872.595	6916.516
44.0	6527.218	6598.091	6741.831	6812.703	6862.613
44.5	6474.314	6532.209	6679.943	6758.800	6804.718
45.0	6419.413	6462.336	6618.055	6702.901	6737.838
45.5	6359.521	6394.458	6551.175	6636.022	6676.948
46.0	6288.649	6324.584	6476.310	6562.155	6611.067
46.5	6215.781	6251.716	6397.453	6501.265	6548.181
47.0	6138.919	6181.842	6330.573	6438.379	6487.291
47.5	6070.044	6114.963	6263.694	6372.498	6422.408
48.0	6007.157	6050.080	6192.822	6309.611	6355.528
48.5	5945.269	5991.186	6122.948	6247.723	6275.673
49.0	5879.388	5910.332	6057.067	6183.838	6173.856
49.5	5808.516	5824.487	5992.184	6119.954	6056.069
50.0	5719.676	5752.617	5924.307	6051.078	5914.325
50.5	5638.822	5689.730	5851.438	5977.211	5741.636
51.0	5562.959	5614.865	5778.570	5887.373	5542.995
51.5	5497.078	5541.997	5702.707	5777.572	5352.339
52.0	5434.191	5463.139	5630.836	5649.802	5198.617
52.5	5362.321	5387.276	5557.968	5484.101	5052.880
53.0	5279.471	5305.424	5483.103	5294.444	4834.274
53.5	5194.624	5229.561	5411.233	5096.800	4539.806
54.0	5115.766	5160.685	5335.370	4930.101	4203.413
54.5	5049.885	5084.822	5258.508	4786.361	3924.916

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55.0	4984.004	4995.982	5184.642	4606.685	3729.269
55.5	4900.155	4914.130	5108.779	4351.146	3580.537
56.0	4809.319	4848.249	5034.912	4032.721	3435.798
56.5	4733.456	4778.375	4960.047	3736.256	3255.125
57.0	4669.572	4700.516	4881.190	3526.634	3072.454
57.5	4597.701	4613.672	4794.346	3376.905	2920.728
58.0	4514.851	4528.826	4701.514	3255.125	2826.898
58.5	4422.018	4447.971	4587.719	3106.393	2768.004
59.0	4347.153	4369.114	4456.955	2902.761	2719.092
59.5	4274.285	4284.267	4308.224	2734.065	2650.216
60.0	4180.454	4195.427	4132.541	2634.245	2558.382
60.5	4090.617	4119.564	3974.826	2575.352	2441.593
61.0	4009.762	4036.714	3826.094	2525.442	2296.854
61.5	3938.890	3950.869	3653.406	2452.573	2144.130
62.0	3854.044	3860.033	3465.744	2358.743	1991.406
62.5	3749.233	3768.198	3223.182	2235.964	1788.771
63.0	3657.398	3689.341	2949.676	2083.240	1484.321
63.5	3584.530	3611.481	2728.076	1935.506	1238.764
64.0	3495.690	3520.645	2577.348	1787.773	1093.027
64.5	3410.843	3440.789	2462.555	1568.169	959.368
65.0	3330.988	3358.937	2329.795	1280.688	755.237
65.5	3225.179	3266.105	2163.096	1082.047	654.419
66.0	3135.341	3180.260	2023.348	960.766	631.860
66.5	3057.481	3102.400	1939.499	782.088	621.478
67.0	2972.634	3015.557	1873.618	655.417	612.395
67.5	2883.795	2929.712	1804.742	609.600	603.411
68.0	2791.961	2851.852	1715.903	597.022	595.026
68.5	2712.105	2760.018	1590.130	587.040	586.841
69.0	2634.245	2677.168	1446.389	577.757	578.656
69.5	2547.402	2592.321	1323.611	569.073	570.271
70.0	2462.555	2513.463	1154.915	560.788	561.986
70.5	2380.703	2423.625	938.506	552.303	554.000
71.0	2308.833	2329.795	799.058	544.417	546.014
71.5	2225.982	2231.971	693.848	536.532	537.031
72.0	2143.132	2128.159	573.465	527.648	528.346
72.5	2061.279	1995.398	513.972	519.163	519.063
73.0	1984.418	1856.649	498.500	510.578	508.981
73.5	1907.557	1737.863	488.219	501.395	498.800
74.0	1830.696	1612.090	478.137	491.513	487.620
74.5	1754.833	1474.339	468.654	480.832	476.540
75.0	1669.986	1298.656	459.071	469.952	464.961
75.5	1592.126	1175.878	449.888	458.772	452.883
76.0	1514.267	1086.040	441.004	447.193	440.605
76.5	1431.416	987.817	431.421	435.314	427.928
77.0	1348.566	883.605	421.839	423.136	415.350
77.5	1264.717	815.728	411.557	410.858	402.374
78.0	1170.887	732.977	400.876	398.181	389.397
78.5	1093.027	629.364	389.397	384.905	376.021
79.0	1024.151	549.408	377.818	371.929	362.945
79.5	952.680	433.717	365.939	358.952	349.569
80.0	880.511	372.827	353.662	345.576	335.894
80.5	808.241	315.830	341.384	331.801	322.418
81.0	734.874	296.465	328.607	318.126	310.240
81.5	662.504	284.387	315.231	304.650	298.561
82.0	597.322	271.809	301.256	290.975	282.989
82.5	539.127	259.132	287.281	277.399	269.214

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CANDELA TABULATION - (Cont.)

83.0	476.540	246.755	272.408	263.425	255.838
83.5	415.450	233.878	257.635	249.649	242.163
84.0	356.457	220.702	242.363	235.275	228.088
84.5	301.356	206.727	227.390	220.302	213.415
85.0	246.555	192.652	211.917	204.132	197.344
85.5	218.106	177.679	195.347	186.763	180.874
86.0	186.863	162.207	177.879	168.496	163.006
86.5	141.445	146.036	158.314	148.732	144.938
87.0	117.688	129.167	137.552	128.069	125.274
87.5	102.715	111.599	115.392	107.107	104.112
88.0	87.841	92.333	93.232	84.048	80.355
88.5	71.571	71.571	70.672	59.093	54.502
89.0	52.306	51.607	48.113	38.331	35.236
89.5	32.741	34.637	30.944	26.253	25.454
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-4-L240-850-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-4-L240-850-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-4-L240-850-HA-CA-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	3511.91	N.A.	14.00
0-30	7490.3	N.A.	29.80
0-40	12342.48	N.A.	49.10
0-60	21674.25	N.A.	86.20
0-80	24926.22	N.A.	99.10
0-90	25152.64	N.A.	100.00
10-90	24247.03	N.A.	96.40
20-40	8830.57	N.A.	35.10
20-50	13908.05	N.A.	55.30
40-70	11679.07	N.A.	46.40
60-80	3251.97	N.A.	12.90
70-80	904.68	N.A.	3.60
80-90	226.42	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	25152.64	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	905.61
10-20	2606.3
20-30	3978.39
30-40	4852.18
40-50	5077.48
50-60	4254.29
60-70	2347.3
70-80	904.68
80-90	226.42
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-4-L240-850-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-4-L240-850-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

X=2H	Y=2H	23.6	25.2	24.0	25.5	25.8	21.2	22.8	21.6	23.1	23.4
	3H	25.3	26.7	25.7	27.0	27.4	21.3	22.7	21.7	23.0	23.4
	4H	25.8	27.1	26.2	27.5	27.9	21.4	22.7	21.8	23.1	23.4
	6H	26.1	27.3	26.5	27.7	28.1	21.5	22.7	21.9	23.1	23.5
	8H	26.2	27.3	26.6	27.7	28.1	21.6	22.7	22.0	23.1	23.5
	12H	26.2	27.3	26.6	27.7	28.1	21.6	22.7	22.1	23.1	23.5

UGR Viewed Endwise

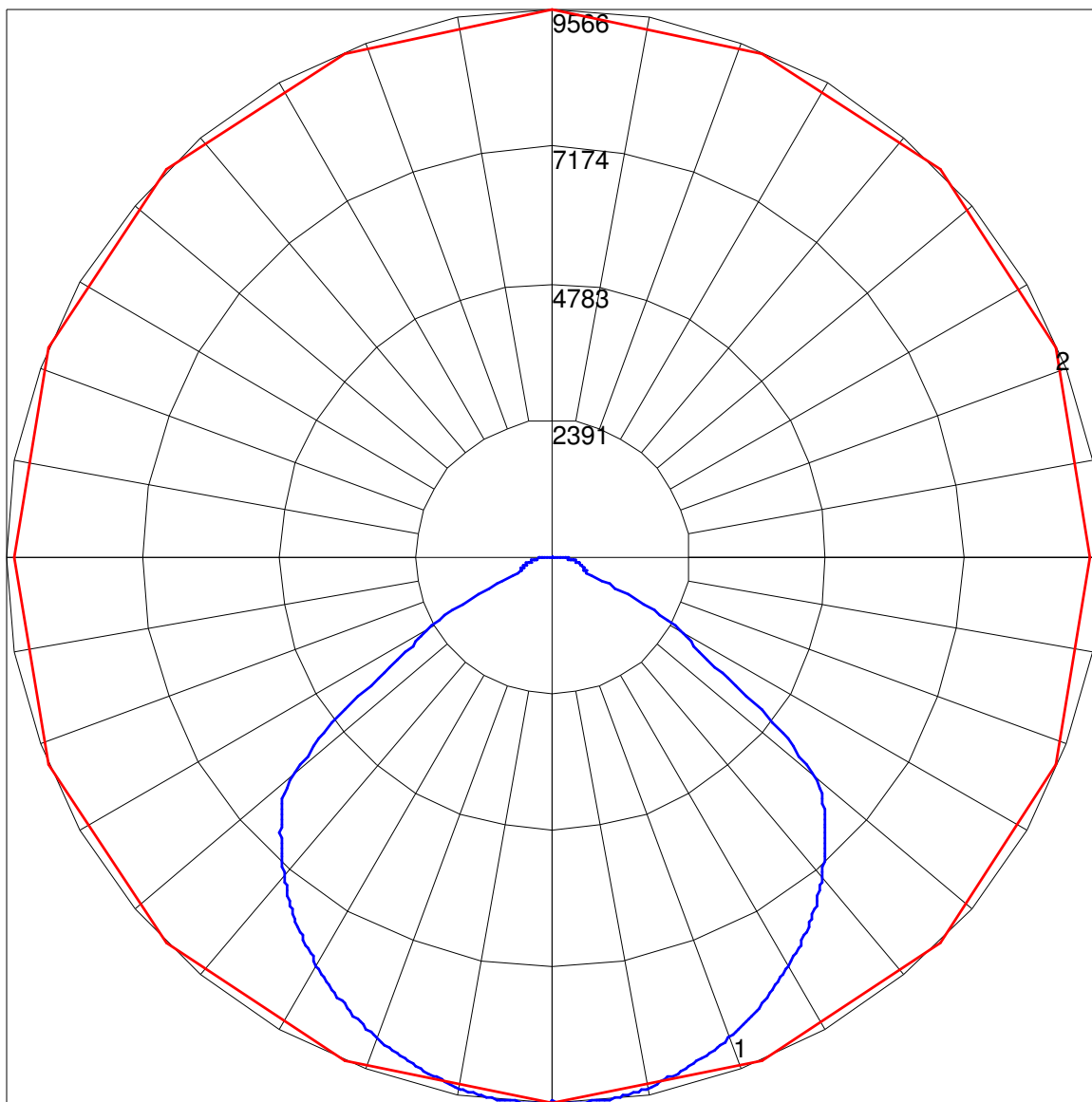
4H	2H	23.8	25.1	24.2	25.5	25.9	21.8	23.1	22.2	23.5	23.8
	3H	25.7	26.8	26.1	27.2	27.6	22.0	23.1	22.4	23.5	23.9
	4H	26.3	27.3	26.7	27.7	28.1	22.1	23.1	22.6	23.5	23.9
	6H	26.6	27.5	27.1	27.9	28.4	22.3	23.2	22.8	23.6	24.1
	8H	26.7	27.5	27.2	27.9	28.4	22.4	23.2	22.9	23.6	24.1
	12H	26.7	27.4	27.2	27.9	28.4	22.5	23.2	23.0	23.7	24.2

8H	4H	26.2	27.0	26.7	27.5	27.9	22.3	23.1	22.8	23.5	24.0
	6H	26.6	27.2	27.1	27.7	28.2	22.6	23.2	23.1	23.7	24.2
	8H	26.7	27.3	27.2	27.8	28.3	22.7	23.3	23.2	23.8	24.3
	12H	26.8	27.3	27.3	27.8	28.3	22.9	23.4	23.4	23.9	24.5

12H	4H	26.2	26.9	26.7	27.4	27.9	22.3	23.0	22.8	23.5	24.0
	6H	26.6	27.2	27.1	27.6	28.2	22.6	23.2	23.1	23.6	24.2
	8H	26.7	27.2	27.2	27.7	28.2	22.8	23.3	23.3	23.8	24.4

Maximum UGR = 28.4

POLAR GRAPH



Maximum Candela = 9565.734 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.)