



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : GS-4-L360-850-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-L360-850-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	37083
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	160
Total Luminaire Watts	232
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	36708	37844	38528
55	35134	36549	26289
65	31869	22290	7226
75	26089	7172	7264
85	11438	9831	9155

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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	14057.373	14057.373	14057.373	14057.373	14057.373
0.5	13883.716	14066.203	14097.108	14075.033	14102.994
1.0	13888.131	14067.674	14098.579	14075.033	14101.523
1.5	13894.018	14066.203	14100.051	14070.618	14097.108
2.0	13892.546	14069.146	14097.108	14072.089	14098.579
2.5	13889.603	14066.203	14098.579	14069.146	14094.164
3.0	13888.131	14060.316	14095.636	14070.618	14097.108
3.5	13883.716	14051.486	14094.164	14070.618	14097.108
4.0	13873.414	14047.071	14089.749	14076.504	14100.051
4.5	13860.169	14038.241	14083.863	14079.448	14102.994
5.0	13842.509	14027.939	14079.448	14076.504	14098.579
5.5	13829.264	14019.109	14073.561	14072.089	14092.693
6.0	13818.963	14010.279	14066.203	14061.788	14080.919
6.5	13804.246	13997.034	14058.844	14051.486	14064.731
7.0	13785.114	13982.318	14044.128	14036.769	14045.599
7.5	13768.926	13969.073	14030.883	14017.638	14024.996
8.0	13754.209	13952.884	14011.751	13997.034	14005.864
8.5	13746.851	13935.224	13994.091	13976.431	13991.148
9.0	13735.077	13916.093	13974.959	13955.828	13973.488
9.5	13718.889	13901.376	13958.771	13941.111	13960.243
10.0	13701.229	13888.131	13941.111	13923.451	13942.583
10.5	13685.041	13873.414	13920.508	13901.376	13921.979
11.0	13667.381	13858.698	13896.961	13876.358	13899.904
11.5	13652.664	13842.509	13873.414	13852.811	13866.056
12.0	13624.702	13821.906	13854.283	13821.906	13821.906
12.5	13593.797	13801.303	13827.793	13780.699	13786.586
13.0	13562.892	13777.756	13799.831	13739.492	13748.323
13.5	13530.516	13745.379	13771.869	13704.172	13705.644
14.0	13495.196	13714.474	13742.436	13664.437	13665.909
14.5	13448.102	13683.569	13707.116	13624.702	13632.061
15.0	13414.254	13652.664	13673.267	13584.967	13605.571
15.5	13395.122	13618.816	13633.532	13546.704	13579.081
16.0	13367.160	13580.552	13593.797	13512.856	13546.704
16.5	13337.727	13545.232	13546.704	13479.007	13517.271
17.0	13318.595	13508.441	13505.497	13445.159	13483.422
17.5	13287.690	13473.121	13461.347	13406.896	13451.046
18.0	13252.370	13431.914	13414.254	13371.575	13412.782
18.5	13214.107	13392.179	13373.047	13328.897	13362.745
19.0	13168.485	13353.915	13321.539	13284.747	13315.652
19.5	13118.449	13314.180	13272.974	13242.069	13277.389
20.0	13071.355	13274.445	13225.880	13196.447	13236.182
20.5	13025.734	13231.767	13183.202	13152.297	13194.975
21.0	12981.583	13186.145	13139.052	13111.090	13150.825
21.5	12930.075	13140.524	13093.430	13069.884	13102.260
22.0	12880.038	13094.902	13047.809	13025.734	13053.695
22.5	12837.360	13046.337	12999.243	12980.112	13009.545
23.0	12794.682	12996.300	12944.792	12927.132	12956.565
23.5	12752.003	12940.377	12891.812	12880.038	12909.472
24.0	12699.023	12890.340	12834.417	12832.945	12857.963
24.5	12653.402	12840.303	12775.550	12779.965	12809.398
25.0	12603.365	12778.493	12712.268	12731.400	12753.475
25.5	12545.970	12726.985	12656.345	12676.948	12700.495
26.0	12479.745	12675.477	12601.893	12622.496	12641.628
26.5	12407.633	12607.780	12548.913	12565.101	12584.233

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**CANDELA TABULATION - (Cont.)**

27.0	12341.40812541.55512491.51812509.17812526.838
27.5	12276.65412472.38612438.53812453.25512470.915
28.0	12214.84412403.21812381.14312400.27512414.991
28.5	12161.86412334.05012320.80512342.88012354.653
29.0	12102.99812266.35312258.99412275.18312295.786
29.5	12044.13112198.65612197.18412213.37312242.806
30.0	11985.26412123.60112130.95912148.61912180.996
30.5	11926.39812054.43312070.62112082.39412125.073
31.0	11863.11611977.90612010.28312020.58412063.263
31.5	11792.47611902.85111947.00111957.30312001.453
32.0	11718.89211835.15411880.77611892.54911936.699
32.5	11642.36611763.04211817.49411835.15411869.002
33.0	11562.89611692.40211760.09911771.87211807.192
33.5	11486.36911617.34711693.87411707.11911751.269
34.0	11408.37011537.87711621.76211639.42211686.516
34.5	11334.78711459.87911548.17911571.72611618.819
35.0	11267.09011378.93711467.23711505.50011546.707
35.5	11203.80911297.99511374.52211436.33211481.954
36.0	11127.28211211.16711299.46711367.16411414.257
36.5	11047.81211124.33811227.35511295.05211342.145
37.0	10956.56811037.51011147.88511224.41211271.505
37.5	10857.96710952.15311066.94311153.77211196.450
38.0	10763.78010868.26810994.83211080.18811118.452
38.5	10668.12110782.91110925.66311003.66211033.095
39.0	10584.23610697.55510844.72210921.24810953.625
39.5	10504.76610606.31110754.95010834.42010875.627
40.0	10422.35310510.65310665.17810752.00610794.685
40.5	10336.99610414.99410579.82110668.12110718.158
41.0	10257.52610319.33610492.99310576.87810640.160
41.5	10160.39610222.20610400.27810492.99310550.388
42.0	10052.96410126.54810306.09110403.22110459.145
42.5	9936.702 10029.41710210.43310313.44910369.373
43.0	9823.384 9930.816 10119.18910223.67810282.544
43.5	9717.424 9826.327 10025.00210132.43410197.188
44.0	9623.237 9727.726 9939.646 10044.13410117.718
44.5	9545.239 9630.595 9848.402 9964.664 10032.361
45.0	9464.297 9527.579 9757.159 9882.251 9933.759
45.5	9375.997 9427.505 9658.557 9783.649 9843.987
46.0	9271.508 9324.488 9548.182 9674.745 9746.857
46.5	9164.077 9217.057 9431.920 9584.974 9654.142
47.0	9050.758 9114.040 9333.318 9492.259 9564.370
47.5	8949.213 9015.438 9234.717 9395.129 9468.712
48.0	8856.498 8919.780 9130.228 9302.413 9370.110
48.5	8765.255 8832.951 9027.212 9211.170 9252.377
49.0	8668.125 8713.746 8930.081 9116.983 9102.267
49.5	8563.636 8587.183 8834.423 9022.797 8928.610
50.0	8432.658 8481.223 8734.350 8921.251 8719.633
50.5	8313.453 8388.508 8626.918 8812.348 8465.034
51.0	8201.606 8278.133 8519.486 8679.898 8172.172
51.5	8104.476 8170.701 8407.639 8518.014 7891.084
52.0	8011.761 8054.439 8301.679 8329.641 7664.447
52.5	7905.801 7942.592 8194.247 8085.344 7449.583
53.0	7783.652 7821.915 8083.872 7805.727 7127.288
53.5	7658.560 7710.069 7977.912 7514.337 6693.146
54.0	7542.299 7608.524 7866.065 7268.568 6197.194
54.5	7445.168 7496.677 7752.747 7056.648 5786.599

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**CANDELA TABULATION - (Cont.)**

55.0	7348.038	7365.698	7643.844	6791.748	5498.152
55.5	7224.418	7245.022	7531.997	6415.001	5278.873
56.0	7090.496	7147.892	7423.093	5945.539	5065.481
56.5	6978.650	7044.875	7312.718	5508.453	4799.109
57.0	6884.463	6930.085	7196.457	5199.403	4529.794
57.5	6778.503	6802.050	7068.421	4978.653	4306.101
58.0	6656.354	6676.958	6931.556	4799.109	4167.764
58.5	6519.489	6557.753	6763.786	4579.831	4080.935
59.0	6409.114	6441.491	6570.998	4279.611	4008.824
59.5	6301.682	6316.399	6351.719	4030.899	3907.279
60.0	6163.346	6185.421	6092.706	3883.732	3771.885
60.5	6030.895	6073.574	5860.182	3796.903	3599.700
61.0	5911.690	5951.425	5640.903	3723.320	3386.308
61.5	5807.202	5824.862	5386.305	3615.888	3161.143
62.0	5682.110	5690.940	5109.631	3477.551	2935.978
62.5	5527.585	5555.547	4752.016	3296.536	2637.229
63.0	5392.192	5439.285	4348.779	3071.371	2188.370
63.5	5284.760	5324.495	4022.069	2853.564	1826.340
64.0	5153.781	5190.573	3799.847	2635.757	1611.476
64.5	5028.690	5072.840	3630.605	2311.990	1414.420
65.0	4910.956	4952.163	3434.873	1888.150	1113.464
65.5	4754.959	4815.298	3189.105	1595.288	964.826
66.0	4622.509	4688.734	2983.071	1416.480	931.566
66.5	4507.719	4573.944	2859.451	1153.052	916.260
67.0	4382.627	4445.909	2762.321	966.297	902.868
67.5	4251.649	4319.346	2660.776	898.748	889.623
68.0	4116.255	4204.555	2529.797	880.205	877.261
68.5	3998.522	4069.162	2344.367	865.488	865.194
69.0	3883.732	3947.014	2132.447	851.801	853.126
69.5	3755.697	3821.922	1951.432	838.998	840.764
70.0	3630.605	3705.660	1702.720	826.783	828.549
70.5	3509.928	3573.210	1383.662	814.274	816.776
71.0	3403.968	3434.873	1178.070	802.648	805.002
71.5	3281.820	3290.650	1022.956	791.022	791.757
72.0	3159.671	3137.596	845.473	777.924	778.954
72.5	3038.994	2941.864	757.762	765.415	765.267
73.0	2925.676	2737.302	734.951	752.758	750.404
73.5	2812.358	2562.174	719.793	739.219	735.393
74.0	2699.039	2376.744	704.929	724.649	718.910
74.5	2587.192	2173.654	690.948	708.902	702.574
75.0	2462.101	1914.640	676.820	692.861	685.503
75.5	2347.310	1733.625	663.281	676.379	667.696
76.0	2232.520	1601.175	650.183	659.307	649.594
76.5	2110.372	1456.363	636.055	641.794	630.904
77.0	1988.223	1302.721	621.927	623.840	612.361
77.5	1864.603	1202.647	606.769	605.739	593.229
78.0	1726.267	1080.646	591.022	587.048	574.098
78.5	1611.476	927.887	574.098	567.475	554.377
79.0	1509.931	810.006	557.026	548.343	535.098
79.5	1404.560	639.440	539.513	529.212	515.378
80.0	1298.158	549.668	521.412	509.491	495.216
80.5	1191.610	465.636	503.310	489.182	475.349
81.0	1083.442	437.085	484.473	469.021	457.394
81.5	976.746	419.278	464.753	449.153	440.176
82.0	880.646	400.735	444.149	428.991	417.218
82.5	794.848	382.045	423.546	408.977	396.909

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**CANDELA TABULATION - (Cont.)**

83.0	702.574	363.796	401.618	388.373	377.189
83.5	612.508	344.812	379.838	368.064	357.027
84.0	525.533	325.386	357.321	346.872	336.276
84.5	444.297	304.782	335.246	324.797	314.643
85.0	363.502	284.032	312.435	300.956	290.949
85.5	321.559	261.957	288.005	275.349	266.666
86.0	275.496	239.146	262.251	248.418	240.323
86.5	208.535	215.305	233.407	219.279	213.686
87.0	173.510	190.434	202.796	188.815	184.694
87.5	151.435	164.532	170.125	157.910	153.495
88.0	129.507	136.129	137.454	123.914	118.469
88.5	105.519	105.519	104.194	87.123	80.353
89.0	77.115	76.085	70.934	56.512	51.950
89.5	48.271	51.067	45.622	38.705	37.528
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-L360-850-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-L360-850-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-L360-850-HA-CA-DIM-UNV\_.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	5177.69	N.A.	14.00
0-30	11043.13	N.A.	29.80
0-40	18196.81	N.A.	49.10
0-60	31954.87	N.A.	86.20
0-80	36749.33	N.A.	99.10
0-90	37083.15	N.A.	100.00
10-90	35747.98	N.A.	96.40
20-40	13019.12	N.A.	35.10
20-50	20504.98	N.A.	55.30
40-70	17218.73	N.A.	46.40
60-80	4794.46	N.A.	12.90
70-80	1333.79	N.A.	3.60
80-90	333.82	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	37083.15	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	1335.17
10-20	3842.52
20-30	5865.44
30-40	7153.68
40-50	7485.86
50-60	6272.2
60-70	3460.68
70-80	1333.79
80-90	333.82
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-L360-850-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-L360-850-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	25.0	26.6	25.4	26.9	27.2	22.6	24.2	23.0	24.5	24.8
	3H	26.7	28.1	27.1	28.4	28.8	22.7	24.1	23.1	24.4	24.8
	4H	27.2	28.5	27.6	28.9	29.3	22.8	24.1	23.2	24.5	24.8
	6H	27.5	28.7	27.9	29.1	29.5	22.9	24.1	23.3	24.5	24.9
	8H	27.6	28.7	28.0	29.1	29.5	23.0	24.1	23.4	24.5	24.9
	12H	27.6	28.7	28.0	29.1	29.5	23.0	24.1	23.5	24.5	24.9

UGR Viewed Endwise

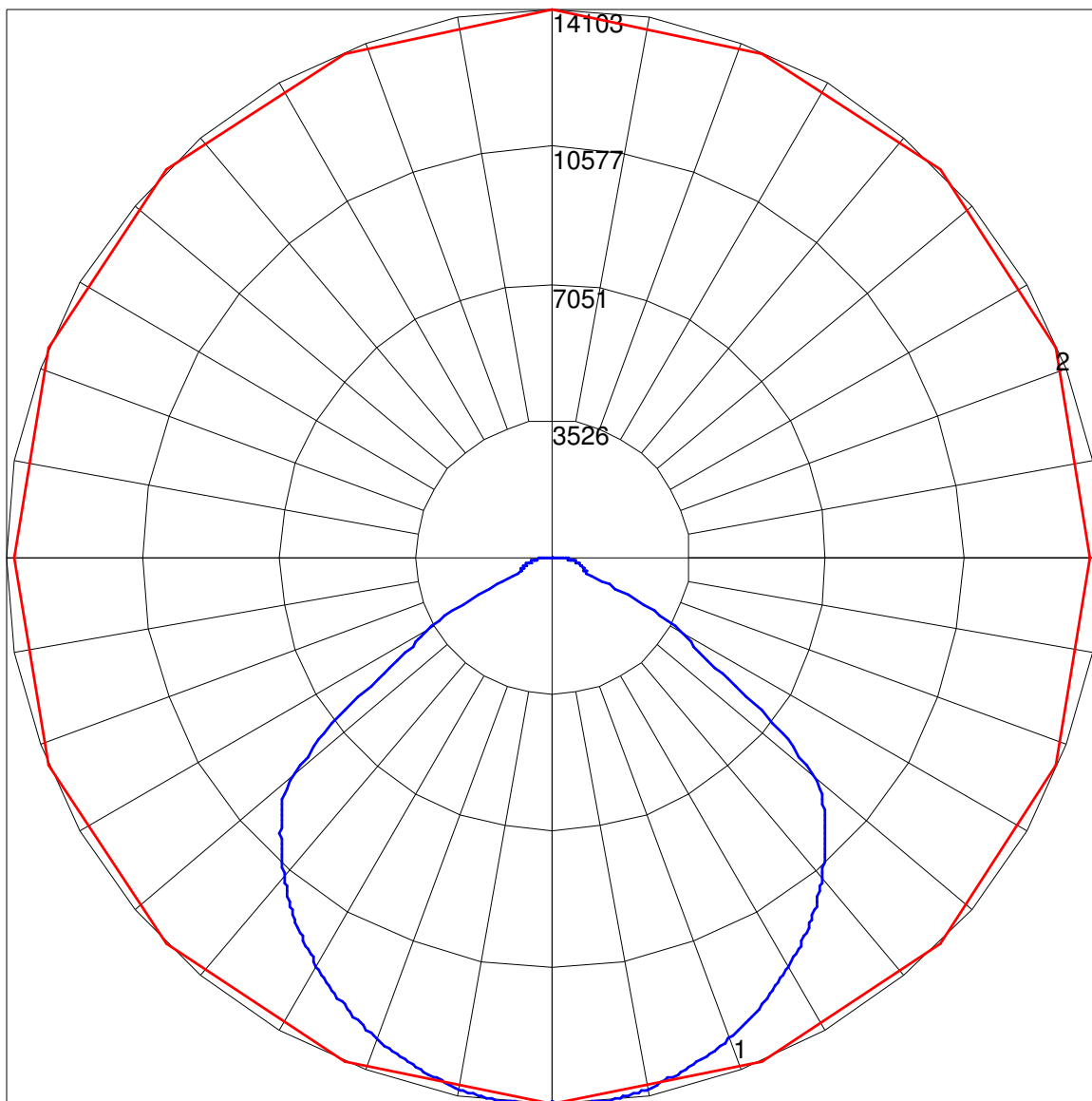
4H	2H	25.2	26.5	25.6	26.9	27.3	23.2	24.5	23.6	24.9	25.2
	3H	27.1	28.2	27.5	28.6	29.0	23.4	24.5	23.8	24.9	25.3
	4H	27.7	28.7	28.1	29.1	29.5	23.5	24.5	24.0	24.9	25.3
	6H	28.0	28.9	28.5	29.3	29.8	23.7	24.6	24.2	25.0	25.5
	8H	28.1	28.9	28.6	29.3	29.8	23.8	24.6	24.3	25.0	25.5
	12H	28.1	28.8	28.6	29.3	29.8	23.9	24.6	24.4	25.1	25.6

8H	4H	27.6	28.4	28.1	28.9	29.3	23.7	24.5	24.2	24.9	25.4
	6H	28.0	28.6	28.5	29.1	29.6	24.0	24.6	24.5	25.1	25.6
	8H	28.1	28.7	28.6	29.2	29.7	24.1	24.7	24.6	25.2	25.7
	12H	28.2	28.7	28.7	29.2	29.7	24.3	24.8	24.8	25.3	25.9

12H	4H	27.6	28.3	28.1	28.8	29.3	23.7	24.4	24.2	24.9	25.4
	6H	28.0	28.6	28.5	29.0	29.6	24.0	24.6	24.5	25.0	25.6
	8H	28.1	28.6	28.6	29.1	29.6	24.2	24.7	24.7	25.2	25.8

Maximum UGR = 29.8

POLAR GRAPH



Maximum Candela = 14102.994 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.)