



IES INDOOR REPORT

PHOTOMETRIC FILENAME : GS-4-L360-840-HA-HE-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-L360-840-HA-HE-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	37443
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	161
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	37064	38211	38903
55	35476	36904	26545
65	32179	22507	7296
75	26343	7241	7334
85	11549	9927	9244

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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	14193.851	14193.851	14193.851	14193.851	14193.851
0.5	14018.508	14202.767	14233.972	14211.683	14239.916
1.0	14022.966	14204.253	14235.458	14211.683	14238.430
1.5	14028.910	14202.767	14236.944	14207.225	14233.972
2.0	14027.424	14205.739	14233.972	14208.711	14235.458
2.5	14024.452	14202.767	14235.458	14205.739	14231.000
3.0	14022.966	14196.823	14232.486	14207.225	14233.972
3.5	14018.508	14187.907	14231.000	14207.225	14233.972
4.0	14008.107	14183.450	14226.542	14213.169	14236.944
4.5	13994.733	14174.534	14220.598	14216.141	14239.916
5.0	13976.902	14164.132	14216.141	14213.169	14235.458
5.5	13963.528	14155.216	14210.197	14208.711	14229.514
6.0	13953.126	14146.301	14202.767	14198.309	14217.627
6.5	13938.267	14132.927	14195.337	14187.907	14201.281
7.0	13918.949	14118.068	14180.478	14173.048	14181.964
7.5	13902.604	14104.694	14167.104	14153.730	14161.160
8.0	13887.744	14088.348	14147.787	14132.927	14141.843
8.5	13880.315	14070.517	14129.955	14112.124	14126.983
9.0	13868.427	14051.199	14110.638	14091.320	14109.152
9.5	13852.081	14036.340	14094.292	14076.461	14095.778
10.0	13834.250	14022.966	14076.461	14058.629	14077.947
10.5	13817.904	14008.107	14055.657	14036.340	14057.143
11.0	13800.073	13993.247	14031.882	14011.079	14034.854
11.5	13785.213	13976.902	14008.107	13987.303	14000.677
12.0	13756.980	13956.098	13988.789	13956.098	13956.098
12.5	13725.775	13935.295	13962.042	13914.492	13920.435
13.0	13694.570	13911.520	13933.809	13872.885	13881.801
13.5	13661.879	13878.829	13905.576	13837.222	13838.708
14.0	13626.216	13847.624	13875.857	13797.101	13798.587
14.5	13578.666	13816.418	13840.194	13756.980	13764.410
15.0	13544.489	13785.213	13806.017	13716.859	13737.663
15.5	13525.171	13751.036	13765.896	13678.225	13710.916
16.0	13496.938	13712.402	13725.775	13644.048	13678.225
16.5	13467.219	13676.739	13678.225	13609.871	13648.505
17.0	13447.901	13639.590	13636.618	13575.694	13614.328
17.5	13416.696	13603.927	13592.039	13537.059	13581.637
18.0	13381.033	13562.320	13544.489	13501.396	13543.003
18.5	13342.399	13522.199	13502.882	13458.303	13492.480
19.0	13296.334	13483.564	13450.873	13413.724	13444.929
19.5	13245.811	13443.444	13401.837	13370.632	13406.295
20.0	13198.261	13403.323	13354.286	13324.567	13364.688
20.5	13152.196	13360.230	13311.193	13279.988	13323.081
21.0	13107.617	13314.165	13266.615	13238.382	13278.502
21.5	13055.609	13268.101	13220.550	13196.775	13229.466
22.0	13005.087	13222.036	13174.485	13152.196	13180.429
22.5	12961.994	13173.000	13125.449	13106.132	13135.851
23.0	12918.901	13122.477	13070.469	13052.637	13082.356
23.5	12875.808	13066.011	13016.974	13005.087	13034.806
24.0	12822.314	13015.488	12959.022	12957.536	12982.797
24.5	12776.249	12964.966	12899.584	12904.042	12933.761
25.0	12725.727	12902.556	12835.688	12855.005	12877.294
25.5	12667.775	12850.547	12779.221	12800.025	12823.800
26.0	12600.906	12798.539	12724.241	12745.044	12764.362
26.5	12528.095	12730.185	12670.746	12687.092	12706.409

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CANDELA TABULATION - (Cont.)

27.0	12461.22712663.31712612.79412630.62612648.457
27.5	12395.84512593.47712559.30012574.15912591.991
28.0	12333.43412523.63712501.34712520.66512535.524
28.5	12279.94012453.79712440.42312462.71312474.600
29.0	12220.50212385.44312378.01312394.35912415.162
29.5	12161.06412317.08912315.60312331.94812361.668
30.0	12101.62512241.30512248.73512266.56612299.257
30.5	12042.18712171.46512187.81112199.69812242.791
31.0	11978.29112094.19612126.88712137.28812180.381
31.5	11906.96512018.41212062.99012073.39212117.971
32.0	11832.66711950.05811996.12212008.01012052.589
32.5	11755.39811877.24611932.22611950.05811984.235
33.0	11675.15611805.92011874.27411886.16211921.825
33.5	11597.88611730.13611807.40611820.78011865.358
34.0	11519.13111649.89511734.59411752.42611799.976
34.5	11444.83311571.13911660.29611684.07211731.622
35.0	11376.47911489.41111578.56911617.20411658.810
35.5	11312.58311407.68411484.95411547.36411593.428
36.0	11235.31311320.01211409.17011477.52411525.074
36.5	11155.07111232.34111336.35811404.71211452.263
37.0	11062.94211144.67011256.11611333.38611380.937
37.5	10963.38311058.48411174.38911262.06011305.153
38.0	10868.28210973.78511101.57711187.76211226.397
38.5	10771.69510887.59911031.73711110.49311140.212
39.0	10686.99510801.41410950.00911027.27911059.970
39.5	10606.75410709.28510859.36610939.60810981.214
40.0	10523.54010612.69710768.72310856.39410899.487
40.5	10437.35510516.11010682.53710771.69510822.217
41.0	10357.11310419.52310594.86610679.56510743.462
41.5	10259.04010321.45010501.25110594.86610652.818
42.0	10150.56510224.86310406.15010504.22310560.689
42.5	10033.17510126.79010309.56210413.57910470.046
43.0	9918.756 10027.23110217.43310322.93610382.374
43.5	9811.767 9921.728 10122.33210230.80710296.189
44.0	9716.666 9822.169 10036.14710141.64910215.947
44.5	9637.910 9724.096 9944.017 10061.40810129.762
45.0	9556.183 9620.079 9851.888 9978.194 10030.203
45.5	9467.025 9519.034 9752.329 9878.635 9939.559
46.0	9361.523 9415.017 9640.882 9768.674 9841.486
46.5	9253.048 9306.542 9523.492 9678.031 9747.871
47.0	9138.629 9202.525 9423.933 9584.416 9657.228
47.5	9036.098 9102.966 9324.374 9486.343 9560.641
48.0	8942.483 9006.379 9218.871 9392.728 9461.082
48.5	8850.354 8918.708 9114.854 9300.598 9342.205
49.0	8752.281 8798.345 9016.781 9205.497 9190.638
49.5	8646.778 8670.553 8920.194 9110.396 9015.295
50.0	8514.528 8563.564 8819.149 9007.865 8804.289
50.5	8394.165 8469.949 8710.674 8897.904 8547.219
51.0	8281.233 8358.502 8602.199 8764.168 8251.513
51.5	8183.159 8250.027 8489.266 8600.713 7967.696
52.0	8089.544 8132.637 8382.278 8410.511 7738.859
52.5	7982.555 8019.704 8273.803 8163.842 7521.909
53.0	7859.221 7897.856 8162.356 7881.510 7196.485
53.5	7732.915 7784.923 8055.367 7587.291 6758.128
54.0	7615.524 7682.392 7942.435 7339.136 6257.361
54.5	7517.451 7569.460 7828.016 7125.159 5842.779

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CANDELA TABULATION - (Cont.)

55.0	7419.378	7437.210	7718.055	6857.687	5551.531
55.5	7294.558	7315.361	7605.123	6477.282	5330.124
56.0	7159.336	7217.288	7495.162	6003.262	5114.660
56.5	7046.403	7113.271	7383.715	5561.933	4845.702
57.0	6951.302	6997.367	7266.325	5249.882	4573.772
57.5	6844.313	6868.088	7137.046	5026.989	4347.907
58.0	6720.979	6741.782	6998.853	4845.702	4208.227
58.5	6582.785	6621.420	6829.454	4624.295	4120.556
59.0	6471.338	6504.029	6634.793	4321.160	4047.744
59.5	6362.863	6377.723	6413.386	4070.033	3945.213
60.0	6223.184	6245.473	6151.858	3921.438	3808.505
60.5	6089.447	6132.540	5917.077	3833.766	3634.648
61.0	5969.085	6009.206	5695.669	3759.469	3419.185
61.5	5863.582	5881.414	5438.599	3650.994	3191.833
62.0	5737.276	5746.192	5159.239	3511.314	2964.482
62.5	5581.251	5609.484	4798.152	3328.541	2662.833
63.0	5444.543	5492.093	4391.000	3101.190	2209.617
63.5	5336.068	5376.189	4061.118	2881.269	1844.071
64.0	5203.818	5240.967	3836.738	2661.347	1627.122
64.5	5077.511	5122.090	3665.853	2334.437	1428.152
65.0	4958.635	5000.242	3468.221	1906.481	1124.274
65.5	4801.124	4862.048	3220.067	1610.776	974.193
66.0	4667.388	4734.256	3012.033	1430.233	940.610
66.5	4551.483	4618.351	2887.212	1164.246	925.156
67.0	4425.177	4489.073	2789.139	975.679	911.634
67.5	4292.927	4361.281	2686.608	907.473	898.260
68.0	4156.219	4245.376	2554.358	888.750	885.778
68.5	4037.342	4108.668	2367.128	873.891	873.594
69.0	3921.438	3985.334	2153.150	860.071	861.409
69.5	3792.160	3859.028	1970.378	847.143	848.927
70.0	3665.853	3741.637	1719.251	834.810	836.593
70.5	3544.005	3607.901	1397.096	822.179	824.706
71.0	3437.016	3468.221	1189.508	810.440	812.818
71.5	3313.682	3322.598	1032.888	798.701	799.444
72.0	3190.347	3168.058	853.682	785.476	786.516
72.5	3068.499	2970.426	765.119	772.846	772.697
73.0	2954.080	2763.878	742.086	760.066	757.689
73.5	2839.662	2587.049	726.781	746.396	742.532
74.0	2725.243	2399.819	711.773	731.685	725.889
74.5	2612.311	2194.757	697.656	715.785	709.395
75.0	2486.004	1933.229	683.391	699.588	692.158
75.5	2370.100	1750.456	669.720	682.945	674.178
76.0	2254.195	1616.720	656.495	665.708	655.901
76.5	2130.861	1470.502	642.230	648.025	637.029
77.0	2007.526	1315.368	627.965	629.897	618.306
77.5	1882.706	1214.323	612.660	611.619	598.989
78.0	1743.026	1091.137	596.760	592.748	579.671
78.5	1627.122	936.895	579.671	572.985	559.760
79.0	1524.591	817.870	562.434	553.667	540.294
79.5	1418.196	645.648	544.751	534.350	520.382
80.0	1310.762	555.005	526.474	514.438	500.024
80.5	1203.179	470.156	508.197	493.932	479.964
81.0	1093.961	441.329	489.177	473.574	461.835
81.5	986.229	423.349	469.265	453.514	444.449
82.0	889.196	404.626	448.462	433.156	421.269
82.5	802.565	385.754	427.658	412.947	400.762

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CANDELA TABULATION - (Cont.)

83.0	709.395	367.328	405.517	392.144	380.851
83.5	618.455	348.159	383.525	371.638	360.493
84.0	530.635	328.545	360.790	350.240	339.541
84.5	448.610	307.741	338.501	327.950	317.697
85.0	367.031	286.789	315.468	303.878	293.773
85.5	324.681	264.500	290.802	278.022	269.255
86.0	278.171	241.468	264.797	250.829	242.657
86.5	210.560	217.395	235.673	221.407	215.761
87.0	175.194	192.283	204.765	190.648	186.487
87.5	152.905	166.130	171.777	159.443	154.985
88.0	130.764	137.451	138.788	125.117	119.619
88.5	106.543	106.543	105.206	87.969	81.133
89.0	77.864	76.824	71.623	57.061	52.454
89.5	48.739	51.563	46.065	39.081	37.892
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-L360-840-HA-HE-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-L360-840-HA-HE-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-L360-840-HA-HE-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	5227.96	N.A.	14.00
0-30	11150.34	N.A.	29.80
0-40	18373.48	N.A.	49.10
0-60	32265.11	N.A.	86.20
0-80	37106.12	N.A.	99.10
0-90	37443.18	N.A.	100.00
10-90	36095.05	N.A.	96.40
20-40	13145.52	N.A.	35.10
20-50	20704.05	N.A.	55.30
40-70	17385.9	N.A.	46.40
60-80	4841.01	N.A.	12.90
70-80	1346.74	N.A.	3.60
80-90	337.06	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	37443.18	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1348.13
10-20	3879.83
20-30	5922.38
30-40	7223.13
40-50	7558.54
50-60	6333.09
60-70	3494.27
70-80	1346.74
80-90	337.06
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-L360-840-HA-HE-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-L360-840-HA-HE-DIM-UNV_.IES

UGR TABLE - CORRECTED

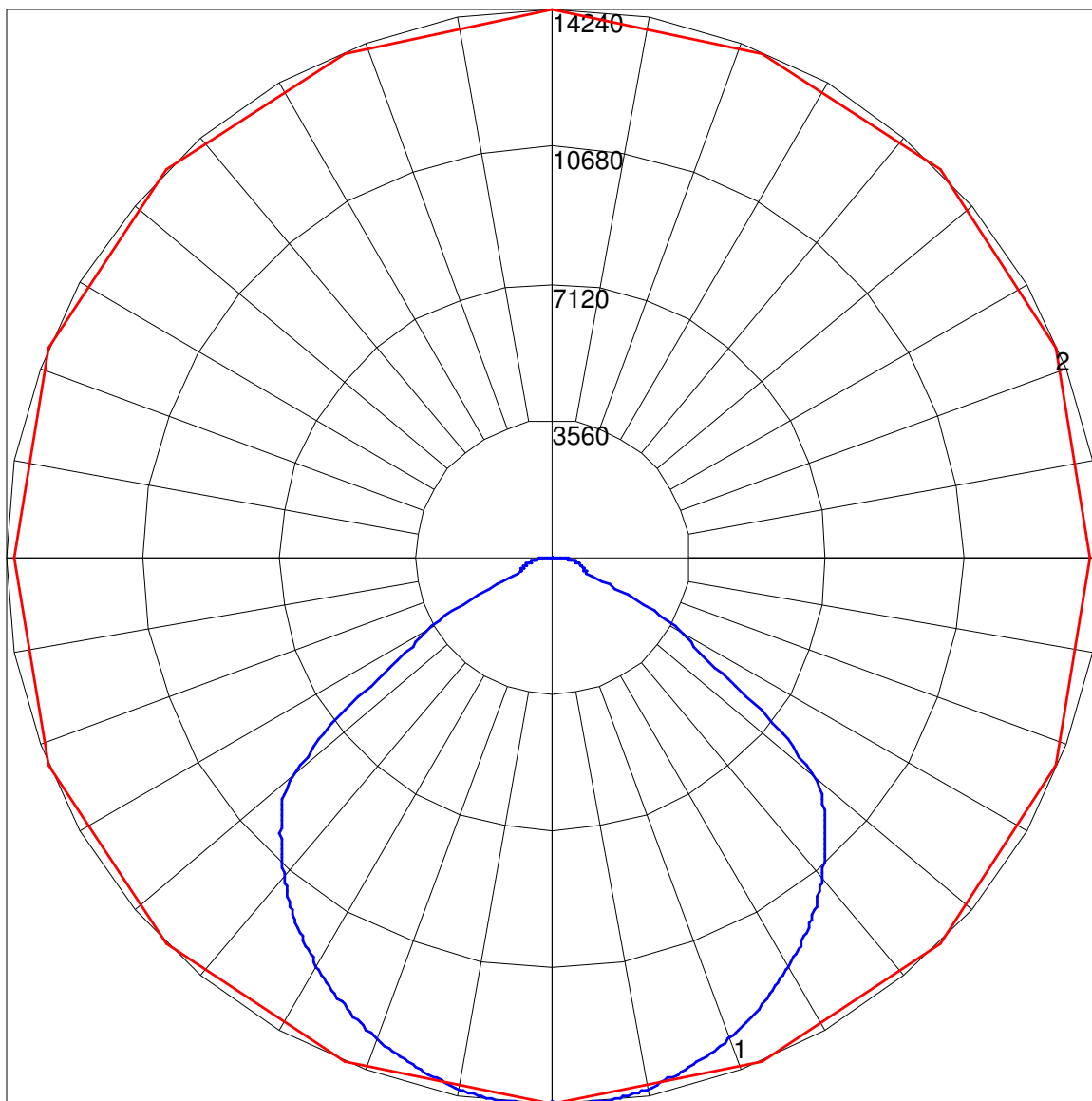
Reflectances

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	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
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 = 14239.916 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.)