



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : GS-4-L360-850-HE-DIM-UNV\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] 14617179.01  
[TESTLAB] UL Verification Services Inc.  
[ISSUE DATE] 2023-03-14  
[TEST DATE] 1/6/2023  
[MANUFAC] WILLIAMS INDOOR  
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.  
[LUMCAT] GS-4-L360-850-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	38566
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	166
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	38176	39357	40070
55	36540	38011	27341
65	33144	23182	7515
75	27133	7459	7554
85	11896	10225	9522

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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	14619.6701	14619.6701	14619.6701	14619.6701	14619.6701
0.5	14439.0671	14628.8531	14660.9951	14638.0371	14667.117
1.0	14443.6591	14630.3841	14662.5251	14638.0371	14665.586
1.5	14449.7811	14628.8531	14664.0561	14633.4451	14660.995
2.0	14448.2501	14631.9141	14660.9951	14634.9761	14662.525
2.5	14445.1891	14628.8531	14662.5251	14631.9141	14657.934
3.0	14443.6591	14622.7311	14659.4641	14633.4451	14660.995
3.5	14439.0671	14613.5481	14657.9341	14633.4451	14660.995
4.0	14428.3531	14608.9561	14653.3421	14639.5671	14664.056
4.5	14414.5781	14599.7731	14647.2201	14642.6281	14667.117
5.0	14396.2121	14589.0591	14642.6281	14639.5671	14662.525
5.5	14382.4371	14579.8761	14636.5061	14634.9761	14656.403
6.0	14371.7231	14570.6931	14628.8531	14624.2621	14644.159
6.5	14356.4181	14556.9181	14621.2011	14613.5481	14627.323
7.0	14336.5211	14541.6131	14605.8951	14598.2431	14607.426
7.5	14319.6851	14527.8381	14592.1211	14578.3461	14585.998
8.0	14304.3801	14511.0021	14572.2241	14556.9181	14566.101
8.5	14296.7271	14492.6361	14553.8571	14535.4911	14550.796
9.0	14284.4831	14472.7391	14533.9601	14514.0631	14532.430
9.5	14267.6471	14457.4331	14517.1241	14498.7581	14518.655
10.0	14249.2811	14443.6591	14498.7581	14480.3911	14500.288
10.5	14232.4451	14428.3531	14477.3301	14457.4331	14478.861
11.0	14214.0781	14413.0481	14452.8421	14431.4141	14455.903
11.5	14198.7731	14396.2121	14428.3531	14406.9261	14420.701
12.0	14169.6931	14374.7851	14408.4561	14374.7851	14374.785
12.5	14137.5521	14353.3571	14380.9071	14331.9301	14338.052
13.0	14105.4101	14328.8691	14351.8271	14289.0751	14298.258
13.5	14071.7391	14295.1971	14322.7461	14252.3421	14253.872
14.0	14035.0061	14263.0561	14292.1361	14211.0171	14212.548
14.5	13986.0291	14230.9141	14255.4031	14169.6931	14177.346
15.0	13950.8261	14198.7731	14220.2011	14128.3681	14149.796
15.5	13930.9291	14163.5711	14178.8761	14088.5751	14122.246
16.0	13901.8491	14123.7771	14137.5521	14053.3721	14088.575
16.5	13871.2391	14087.0441	14088.5751	14018.1701	14057.964
17.0	13851.3421	14048.7811	14045.7201	13982.9681	14022.762
17.5	13819.2001	14012.0481	13999.8031	13943.1741	13989.090
18.0	13782.4681	13969.1931	13950.8261	13906.4411	13949.296
18.5	13742.6741	13927.8681	13907.9711	13862.0551	13897.258
19.0	13695.2271	13888.0741	13854.4031	13816.1391	13848.281
19.5	13643.1891	13846.7501	13803.8951	13771.7541	13808.487
20.0	13594.2121	13805.4261	13754.9181	13724.3071	13765.632
20.5	13546.7651	13761.0401	13710.5321	13678.3911	13722.777
21.0	13500.8491	13713.5931	13664.6161	13635.5361	13676.861
21.5	13447.2801	13666.1471	13617.1701	13592.6811	13626.353
22.0	13395.2421	13618.7001	13569.7231	13546.7651	13575.845
22.5	13350.8571	13568.1931	13519.2161	13499.3191	13529.929
23.0	13306.4711	13516.1541	13462.5861	13444.2191	13474.830
23.5	13262.0861	13457.9941	13407.4861	13395.2421	13425.853
24.0	13206.9861	13405.9561	13347.7961	13346.2651	13372.284
24.5	13159.5401	13353.9181	13286.5741	13291.1661	13321.776
25.0	13107.5021	13289.6351	13220.7611	13240.6581	13263.616
25.5	13047.8111	13236.0671	13162.6011	13184.0281	13208.517
26.0	12978.9371	13182.4981	13105.9711	13127.3991	13147.296
26.5	12903.9401	13112.0931	13050.8721	13067.7081	13087.605

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**CANDELA TABULATION - (Cont.)**

27.0	12835.06613043.21912991.18113009.54713027.914
27.5	12767.72312971.28412936.08212951.38712969.753
28.0	12703.44012899.34912876.39112896.28812911.593
28.5	12648.34112827.41412813.63912836.59712848.841
29.0	12587.12012757.00912749.35612766.19212787.620
29.5	12525.89812686.60412685.07412701.91012732.521
30.0	12464.67712608.54712616.20012634.56612668.238
30.5	12403.45512536.61212553.44812565.69212610.078
31.0	12337.64212457.02412490.69612501.41012545.795
31.5	12264.17712378.96712424.88312435.59712481.513
32.0	12187.65012308.56212356.00912368.25312414.169
32.5	12108.06212233.56612290.19612308.56212343.765
33.0	12025.41312160.10012230.50512242.74912279.482
33.5	11945.82612082.04312161.63112175.40612221.322
34.0	11864.70711999.39412086.63512105.00112153.978
34.5	11788.18011918.27612010.10812034.59712083.574
35.0	11717.77611834.09611925.92911965.72212008.577
35.5	11651.96311749.91711829.50511893.78711941.234
36.0	11572.37511659.61511751.44811821.85211870.829
36.5	11489.72611569.31411676.45111746.85611795.833
37.0	11394.83311479.01211593.80211673.39011722.367
37.5	11292.28711390.24111509.62311599.92511644.310
38.0	11194.33311303.00111434.62711523.39811563.192
38.5	11094.84811214.23011362.69211443.81011474.421
39.0	11007.60811125.45911278.51211358.10011391.772
39.5	10924.95911030.56611185.15011267.79911310.654
40.0	10839.24910931.08111091.78711182.08911226.474
40.5	10750.47810831.59611003.01611094.84811146.886
41.0	10667.82910732.11110912.71410999.95511065.768
41.5	10566.81410631.09610816.29110912.71410972.405
42.0	10455.08410531.61110718.33610819.35210877.512
42.5	10334.17210430.59610618.85210725.98910784.149
43.0	10216.32110328.05010523.95910632.62710693.848
43.5	10106.12210219.38210426.00410537.73310605.077
44.0	10008.16810116.83610337.23310445.90110522.428
44.5	9927.050 10015.82110242.34010363.25210433.657
45.0	9842.870 9908.683 10147.44710277.54210331.111
45.5	9751.038 9804.607 10044.90110174.99710237.748
46.0	9642.370 9697.470 9930.111 10061.73710136.733
46.5	9530.641 9585.741 9809.199 9968.374 10040.309
47.0	9412.790 9478.603 9706.653 9871.951 9946.947
47.5	9307.183 9376.057 9604.107 9770.935 9847.462
48.0	9210.760 9276.573 9495.439 9674.512 9744.916
48.5	9115.866 9186.271 9388.302 9579.618 9622.473
49.0	9014.851 9062.298 9287.286 9481.664 9466.359
49.5	8906.183 8930.672 9187.802 9383.710 9285.756
50.0	8769.965 8820.473 9083.725 9278.103 9068.420
50.5	8645.992 8724.049 8971.996 9164.843 8803.637
51.0	8529.671 8609.259 8860.267 9027.095 8499.061
51.5	8428.656 8497.530 8743.946 8858.736 8206.729
52.0	8332.232 8376.618 8633.748 8662.828 7971.026
52.5	8222.034 8260.297 8522.019 8408.759 7747.568
53.0	8095.000 8134.793 8407.229 8117.958 7412.381
53.5	7964.904 8018.473 8297.030 7814.912 6960.873
54.0	7843.992 7912.866 8180.709 7559.312 6445.083
54.5	7742.976 7796.545 8062.858 7338.915 6018.064

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**CANDELA TABULATION - (Cont.)**

55.0	7641.961	7660.328	7949.599	7063.419	5718.079
55.5	7513.396	7534.824	7833.278	6671.602	5490.029
56.0	7374.118	7433.808	7720.018	6183.361	5268.101
56.5	7257.797	7326.671	7605.228	5728.792	4991.075
57.0	7159.843	7207.289	7484.316	5407.380	4710.987
57.5	7049.644	7074.133	7351.160	5177.800	4478.345
58.0	6922.610	6944.037	7208.820	4991.075	4334.475
58.5	6780.270	6820.064	7034.339	4763.025	4244.174
59.0	6665.480	6699.152	6833.839	4450.796	4169.177
59.5	6553.751	6569.056	6605.789	4192.135	4063.570
60.0	6409.881	6432.839	6336.415	4039.082	3922.761
60.5	6272.132	6316.518	6094.590	3948.780	3743.689
61.0	6148.159	6189.483	5866.541	3872.254	3521.761
61.5	6039.491	6057.857	5601.758	3760.524	3287.589
62.0	5909.396	5918.579	5314.017	3616.654	3053.417
62.5	5748.689	5777.770	4942.097	3428.398	2742.719
63.0	5607.880	5656.857	4522.731	3194.227	2275.906
63.5	5496.151	5537.476	4182.952	2967.707	1899.394
64.0	5359.934	5398.197	3951.841	2741.188	1675.936
64.5	5229.838	5275.754	3775.830	2404.470	1470.997
65.0	5107.395	5150.250	3572.269	1963.676	1158.003
65.5	4945.159	5007.910	3316.669	1659.100	1003.419
66.0	4807.410	4876.284	3102.394	1473.140	968.829
66.5	4688.029	4756.903	2973.829	1199.174	952.911
67.0	4557.933	4623.746	2872.814	1004.949	938.983
67.5	4421.716	4492.120	2767.207	934.698	925.208
68.0	4280.906	4372.738	2630.990	915.413	912.352
68.5	4158.464	4231.929	2438.142	900.108	899.802
69.0	4039.082	4104.895	2217.745	885.874	887.251
69.5	3905.925	3974.799	2029.489	872.558	874.395
70.0	3775.830	3853.887	1770.829	859.855	861.691
70.5	3650.326	3716.139	1439.009	846.845	849.447
71.0	3540.127	3572.269	1225.193	834.754	837.203
71.5	3413.093	3422.276	1063.875	822.663	823.428
72.0	3286.059	3263.101	879.292	809.041	810.112
72.5	3160.555	3059.539	788.072	796.031	795.878
73.0	3042.704	2846.795	764.349	782.869	780.420
73.5	2924.852	2664.661	748.585	768.788	764.808
74.0	2807.001	2471.814	733.126	753.635	747.666
74.5	2690.680	2260.600	718.586	737.259	730.677
75.0	2560.585	1991.226	703.893	720.576	712.923
75.5	2441.203	1802.970	689.812	703.434	694.404
76.0	2321.822	1665.222	676.190	685.680	675.578
76.5	2194.787	1514.617	661.497	667.466	656.140
77.0	2067.753	1354.830	646.804	648.794	636.856
77.5	1939.188	1250.753	631.040	629.968	616.959
78.0	1795.318	1123.872	614.663	610.530	597.062
78.5	1675.936	965.002	597.062	590.174	576.553
79.0	1570.329	842.406	579.307	570.277	556.503
79.5	1460.743	665.017	561.094	550.380	535.993
80.0	1350.085	571.655	542.269	529.871	515.025
80.5	1239.274	484.261	523.443	508.750	494.363
81.0	1126.780	454.569	503.852	487.781	475.690
81.5	1015.816	436.049	483.343	467.119	457.783
82.0	915.872	416.765	461.915	446.151	433.907
82.5	826.642	397.327	440.488	425.336	412.785

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**CANDELA TABULATION - (Cont.)**

83.0	730.677	378.348	417.683	403.908	392.276
83.5	637.009	358.604	395.031	382.787	371.308
84.0	546.554	338.401	371.614	360.747	349.727
84.5	462.069	316.974	348.656	337.789	327.228
85.0	378.042	295.393	324.933	312.994	302.587
85.5	334.422	272.435	299.526	286.363	277.333
86.0	286.516	248.712	272.741	258.354	249.936
86.5	216.877	223.917	242.743	228.050	222.234
87.0	180.450	198.051	210.908	196.368	192.082
87.5	157.492	171.114	176.930	164.226	159.635
88.0	134.687	141.574	142.952	128.871	123.208
88.5	109.739	109.739	108.362	90.608	83.567
89.0	80.200	79.129	73.772	58.773	54.028
89.5	50.202	53.110	47.447	40.253	39.029
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-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-L360-850-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-L360-850-HE-DIM-UNV\_.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	5384.8	N.A.	14.00
0-30	11484.86	N.A.	29.80
0-40	18924.69	N.A.	49.10
0-60	33233.07	N.A.	86.20
0-80	38219.31	N.A.	99.10
0-90	38566.48	N.A.	100.00
10-90	37177.91	N.A.	96.40
20-40	13539.89	N.A.	35.10
20-50	21325.18	N.A.	55.30
40-70	17907.48	N.A.	46.40
60-80	4986.24	N.A.	12.90
70-80	1387.14	N.A.	3.60
80-90	347.17	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	38566.48	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	1388.57
10-20	3996.23
20-30	6100.06
30-40	7439.83
40-50	7785.29
50-60	6523.09
60-70	3599.1
70-80	1387.14
80-90	347.17
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-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-L360-850-HE-DIM-UNV\_.IES**

**UGR TABLE - CORRECTED**

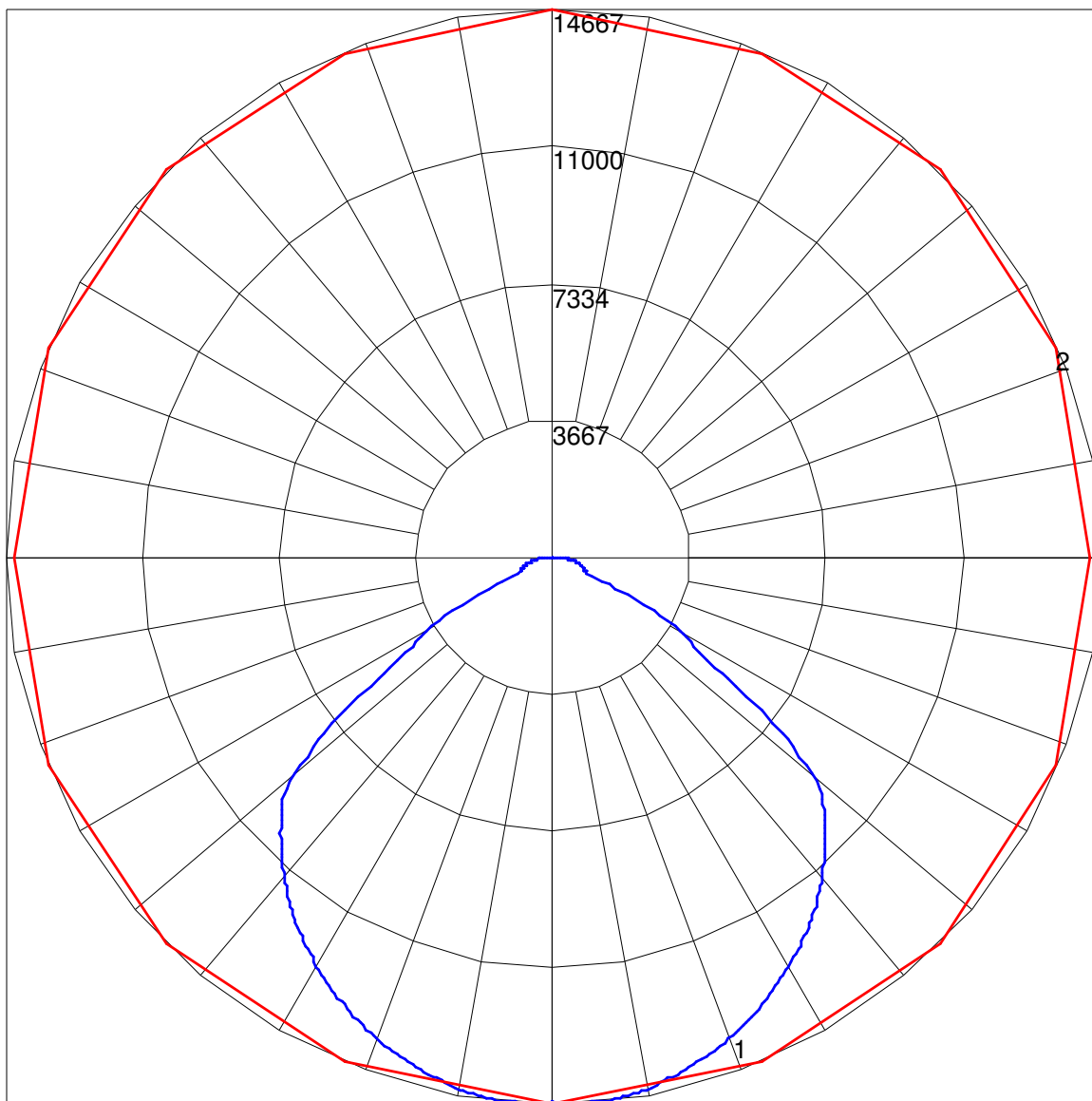
Reflectances

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	25.1	26.7	25.5	27.0	27.3	22.7	24.3	23.1	24.6	24.9
	3H	26.8	28.2	27.2	28.5	28.9	22.8	24.2	23.2	24.5	24.9
	4H	27.3	28.6	27.7	29.0	29.4	22.9	24.2	23.3	24.6	24.9
	6H	27.6	28.8	28.0	29.2	29.6	23.0	24.2	23.4	24.6	25.0
	8H	27.7	28.8	28.1	29.2	29.6	23.1	24.2	23.5	24.6	25.0
	12H	27.7	28.8	28.1	29.2	29.6	23.1	24.2	23.6	24.6	25.0
4H	2H	25.3	26.6	25.7	27.0	27.4	23.3	24.6	23.7	25.0	25.3
	3H	27.2	28.3	27.6	28.7	29.1	23.5	24.6	23.9	25.0	25.4
	4H	27.8	28.8	28.2	29.2	29.6	23.6	24.6	24.1	25.0	25.4
	6H	28.1	29.0	28.6	29.4	29.9	23.8	24.7	24.3	25.1	25.6
	8H	28.2	29.0	28.7	29.4	29.9	23.9	24.7	24.4	25.1	25.6
	12H	28.2	28.9	28.7	29.4	29.9	24.0	24.7	24.5	25.2	25.7
8H	4H	27.7	28.5	28.2	29.0	29.4	23.8	24.6	24.3	25.0	25.5
	6H	28.1	28.7	28.6	29.2	29.7	24.1	24.7	24.6	25.2	25.7
	8H	28.2	28.8	28.7	29.3	29.8	24.2	24.8	24.7	25.3	25.8
	12H	28.3	28.8	28.8	29.3	29.8	24.4	24.9	24.9	25.4	26.0
12H	4H	27.7	28.4	28.2	28.9	29.4	23.8	24.5	24.3	25.0	25.5
	6H	28.1	28.7	28.6	29.1	29.7	24.1	24.7	24.6	25.1	25.7
	8H	28.2	28.7	28.7	29.2	29.7	24.3	24.8	24.8	25.3	25.9

Maximum UGR = 29.9

POLAR GRAPH



Maximum Candela = 14667.117 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.)