



IES INDOOR REPORT

PHOTOMETRIC FILENAME : GS-4-L360-840-HA-CA-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-L360-840-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	36003
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	155
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	35638	36741	37406
55	34111	35484	25524
65	30941	21641	7015
75	25329	6963	7052
85	11105	9545	8889

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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	13647.93613647.93613647.93613647.93613647.936				
0.5	13479.33713656.50913686.51413665.08213692.229				
1.0	13483.62413657.93813687.94313665.08213690.800				
1.5	13489.33913656.50913689.37213660.79513686.514				
2.0	13487.91013659.36713686.51413662.22413687.943				
2.5	13485.05313656.50913687.94313659.36713683.656				
3.0	13483.62413650.79413685.08513660.79513686.514				
3.5	13479.33713642.22113683.65613660.79513686.514				
4.0	13469.33613637.93513679.37013666.51113689.372				
4.5	13456.47613629.36213673.65513669.36813692.229				
5.0	13439.33113619.36013669.36813666.51113687.943				
5.5	13426.47213610.78713663.65313662.22413682.227				
6.0	13416.47013602.21413656.50913652.22313670.797				
6.5	13402.18213589.35513649.36513642.22113655.080				
7.0	13383.60713575.06713635.07713627.93313636.506				
7.5	13367.89113562.20813622.21813609.35813616.503				
8.0	13353.60313546.49113603.64313589.35513597.928				
8.5	13346.45913529.34513586.49813569.35213583.640				
9.0	13335.02813510.77113567.92313549.34913566.494				
9.5	13319.31113496.48313552.20613535.06113553.635				
10.0	13302.16613483.62413535.06113517.91513536.489				
10.5	13286.44913469.33613515.05713496.48313516.486				
11.0	13269.30313455.04813492.19713472.19313495.054				
11.5	13255.01513439.33113469.33613449.33213462.192				
12.0	13227.86813419.32813450.76113419.32813419.328				
12.5	13197.86313399.32413425.04313379.32113385.036				
13.0	13167.85813376.46313397.89513339.31513347.887				
13.5	13136.42413345.03013370.74813305.02313306.452				
14.0	13102.13313315.02513342.17213266.44613267.874				
14.5	13056.41113285.02013307.88113227.86813235.012				
15.0	13023.54913255.01513275.01813189.29013209.293				
15.5	13004.97413222.15313236.44113152.14113183.575				
16.0	12977.82713185.00413197.86313119.27913152.141				
16.5	12949.25113150.71213152.14113086.41613123.565				
17.0	12930.67713114.99213112.13513053.55413090.703				
17.5	12900.67213080.70113069.27113016.40513059.269				
18.0	12866.38013040.69413023.54912982.11413022.120				
18.5	12829.23113002.11712983.54212940.67812973.541				
19.0	12784.93912964.96812933.53412897.81412927.819				
19.5	12736.35912926.39012886.38412856.37912890.670				
20.0	12690.63712887.81212840.66212812.08612850.664				
20.5	12646.34512846.37712799.22712769.22212810.657				
21.0	12603.48012802.08412756.36212729.21512767.793				
21.5	12553.47212757.79112712.07012689.20912720.642				
22.0	12504.89312713.49812667.77712646.34512673.492				
22.5	12463.45812666.34812620.62612602.05212630.628				
23.0	12422.02212617.76812567.76012550.61512579.191				
23.5	12380.58712563.47412516.32312504.89312533.469				
24.0	12329.15012514.89512460.60012459.17112483.461				
24.5	12284.85712466.31512403.44812407.73412436.310				
25.0	12236.27812406.30512342.00912360.58412382.016				
25.5	12180.55412356.29712287.71512307.71812330.579				
26.0	12116.25812306.28912234.84912254.85212273.427				
26.5	12046.24712240.56412183.41212199.12912217.703				

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CANDELA TABULATION - (Cont.)

27.0	11981.95112176.26812127.68912144.83412161.980
27.5	11919.08312109.11412076.25212090.54012107.685
28.0	11859.07412041.96012020.52812039.10312053.391
28.5	11807.63711974.80711961.94711983.37911994.810
29.0	11750.48411909.08211901.93811917.65411937.658
29.5	11693.33211843.35711841.92811857.64511886.221
30.0	11636.18011770.48811777.63211794.77711826.211
30.5	11579.02811703.33411719.05111730.48111771.916
31.0	11517.58911629.03611660.47011670.47111711.907
31.5	11449.00711556.16711599.03111609.03311651.897
32.0	11377.56711490.44211534.73511546.16511589.030
32.5	11303.26911420.43111473.29611490.44211523.305
33.0	11226.11311351.84811417.57311429.00411463.295
33.5	11151.81611278.97911353.27711366.13611409.000
34.0	11076.08911201.82411283.26611300.41111346.133
34.5	11004.64911126.09711211.82511234.68611280.408
35.0	10938.92411047.51311133.24111170.39011210.396
35.5	10877.48510968.92911043.22611103.23611147.529
36.0	10803.18710884.62910970.35711036.08211081.804
36.5	10726.03210800.33010900.34610966.07111011.793
37.0	10637.44610716.03010823.19110897.48810943.210
37.5	10541.71610633.16010744.60610828.90610870.341
38.0	10450.27310551.71810674.59510757.46610794.615
38.5	10357.40010468.84710607.44110683.16810711.744
39.0	10275.95910385.97710528.85710603.15510634.588
39.5	10198.80310297.39110441.70010518.85510558.862
40.0	10118.79010204.51810354.54310438.84210480.278
40.5	10035.92010111.64610271.67210357.40010405.980
41.0	9958.764 10018.77410187.37310268.81510330.253
41.5	9864.463 9924.473 10097.35810187.37310243.096
42.0	9760.160 9831.601 10005.91510100.21610154.510
42.5	9647.285 9737.300 9913.042 10013.05910067.353
43.0	9537.267 9641.570 9824.457 9925.902 9983.054
43.5	9434.393 9540.125 9733.013 9837.316 9900.183
44.0	9342.950 9444.395 9650.142 9751.588 9823.028
44.5	9267.223 9350.094 9561.557 9674.432 9740.157
45.0	9188.639 9250.077 9472.971 9594.419 9644.427
45.5	9102.911 9152.919 9377.241 9498.689 9557.270
46.0	9001.465 9052.902 9270.081 9392.958 9462.969
46.5	8897.163 8948.600 9157.205 9305.801 9372.955
47.0	8787.145 8848.583 9061.475 9215.786 9285.797
47.5	8688.557 8752.854 8965.745 9121.485 9192.925
48.0	8598.543 8659.981 8864.300 9031.470 9097.195
48.5	8509.957 8575.682 8764.284 8942.884 8982.891
49.0	8415.656 8459.949 8669.983 8851.441 8837.153
49.5	8314.211 8337.072 8577.111 8759.998 8668.554
50.0	8187.047 8234.198 8479.952 8661.410 8465.664
50.5	8071.314 8144.183 8375.649 8555.679 8218.481
51.0	7962.725 8037.023 8271.347 8427.086 7934.149
51.5	7868.424 7932.720 8162.757 8269.918 7661.247
52.0	7778.409 7819.845 8059.884 8087.031 7441.211
52.5	7675.535 7711.255 7955.581 7849.849 7232.606
53.0	7556.945 7594.093 7848.421 7578.377 6919.698
53.5	7435.496 7485.504 7745.547 7295.473 6498.201
54.0	7322.621 7386.917 7636.958 7056.863 6016.694
54.5	7228.320 7278.328 7526.940 6851.115 5618.057

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CANDELA TABULATION - (Cont.)

55.0	7134.019	7151.164	7421.208	6593.931	5338.012
55.5	7013.999	7034.002	7312.619	6228.157	5125.120
56.0	6883.978	6939.701	7206.888	5772.368	4917.944
56.5	6775.389	6839.685	7099.727	5348.014	4659.330
57.0	6683.945	6728.238	6986.852	5047.965	4397.859
57.5	6581.071	6603.932	6862.546	4833.644	4180.681
58.0	6462.481	6482.484	6729.667	4659.330	4046.373
58.5	6329.602	6366.751	6566.783	4446.438	3962.074
59.0	6222.442	6253.875	6379.610	4154.962	3892.062
59.5	6118.139	6132.427	6166.718	3913.494	3793.475
60.0	5983.831	6005.263	5915.249	3770.614	3662.025
60.5	5855.239	5896.674	5689.498	3686.314	3494.855
61.0	5739.506	5778.084	5476.606	3614.874	3287.678
61.5	5638.061	5655.206	5229.423	3510.572	3069.071
62.0	5516.612	5525.185	4960.808	3376.264	2850.464
62.5	5366.588	5393.735	4613.608	3200.521	2560.417
63.0	5235.138	5280.860	4222.116	2981.914	2124.632
63.5	5130.835	5169.413	3904.921	2770.451	1773.146
64.0	5003.672	5039.392	3689.172	2558.988	1564.540
64.5	4882.223	4925.088	3524.860	2244.651	1373.224
65.0	4767.919	4807.926	3334.829	1833.156	1081.033
65.5	4616.466	4675.047	3096.218	1548.824	936.724
66.0	4487.873	4552.170	2896.186	1375.224	904.433
66.5	4376.427	4440.723	2776.166	1119.468	889.573
67.0	4254.978	4316.417	2681.865	938.153	876.571
67.5	4127.815	4193.540	2583.278	872.571	863.712
68.0	3996.365	4082.093	2456.114	854.568	851.710
68.5	3882.061	3950.643	2276.085	840.280	839.994
69.0	3770.614	3832.052	2070.337	826.992	828.278
69.5	3646.308	3710.604	1894.594	814.561	816.276
70.0	3524.860	3597.729	1653.126	802.702	804.417
70.5	3407.698	3469.136	1343.362	790.557	792.986
71.0	3304.824	3334.829	1143.758	779.270	781.556
71.5	3186.233	3194.806	993.162	767.982	768.697
72.0	3067.642	3046.210	820.848	755.266	756.266
72.5	2950.480	2856.179	735.691	743.121	742.978
73.0	2840.462	2657.576	713.545	730.833	728.547
73.5	2730.445	2487.548	698.828	717.688	713.973
74.0	2620.427	2307.519	684.397	703.543	697.971
74.5	2511.838	2110.344	670.823	688.255	682.111
75.0	2390.389	1858.874	657.107	672.681	665.537
75.5	2278.942	1683.131	643.962	656.678	648.248
76.0	2167.496	1554.539	631.246	640.104	630.674
76.5	2048.905	1413.944	617.529	623.101	612.528
77.0	1930.314	1264.777	603.813	605.670	594.525
77.5	1810.295	1167.619	589.096	588.096	575.951
78.0	1675.987	1049.171	573.808	569.950	557.376
78.5	1564.540	900.861	557.376	550.947	538.230
79.0	1465.953	786.414	540.802	532.372	519.513
79.5	1363.651	620.815	523.800	513.798	500.367
80.0	1260.348	533.658	506.225	494.652	480.793
80.5	1156.903	452.074	488.651	474.934	461.504
81.0	1051.886	424.355	470.362	455.360	444.072
81.5	948.297	407.066	451.216	436.071	427.355
82.0	854.996	389.063	431.213	416.496	405.066
82.5	771.697	370.918	411.210	397.065	385.348

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CANDELA TABULATION - (Cont.)

83.0	682.111	353.200	389.921	377.061	366.202
83.5	594.668	334.769	368.774	357.344	346.628
84.0	510.226	315.909	346.914	336.769	326.482
84.5	431.356	295.905	325.482	315.337	305.478
85.0	352.915	275.759	303.335	292.190	282.475
85.5	312.194	254.327	279.617	267.329	258.899
86.0	267.472	232.181	254.613	241.182	233.324
86.5	202.462	209.034	226.608	212.892	207.462
87.0	168.456	184.887	196.889	183.316	179.315
87.5	147.024	159.740	165.170	153.311	149.024
88.0	125.735	132.164	133.450	120.305	115.019
88.5	102.445	102.445	101.159	84.585	78.013
89.0	74.869	73.869	68.868	54.866	50.437
89.5	46.865	49.580	44.293	37.578	36.435
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-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-L360-840-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-L360-840-HA-CA-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	5026.88	N.A.	14.00
0-30	10721.49	N.A.	29.80
0-40	17666.81	N.A.	49.10
0-60	31024.14	N.A.	86.20
0-80	35678.96	N.A.	99.10
0-90	36003.06	N.A.	100.00
10-90	34706.78	N.A.	96.40
20-40	12639.92	N.A.	35.10
20-50	19907.75	N.A.	55.30
40-70	16717.22	N.A.	46.40
60-80	4654.82	N.A.	12.90
70-80	1294.94	N.A.	3.60
80-90	324.10	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	36003.06	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1296.28
10-20	3730.61
20-30	5694.6
30-40	6945.32
40-50	7267.82
50-60	6089.51
60-70	3359.88
70-80	1294.94
80-90	324.10
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-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-L360-840-HA-CA-DIM-UNV_.IES

UGR TABLE - CORRECTED

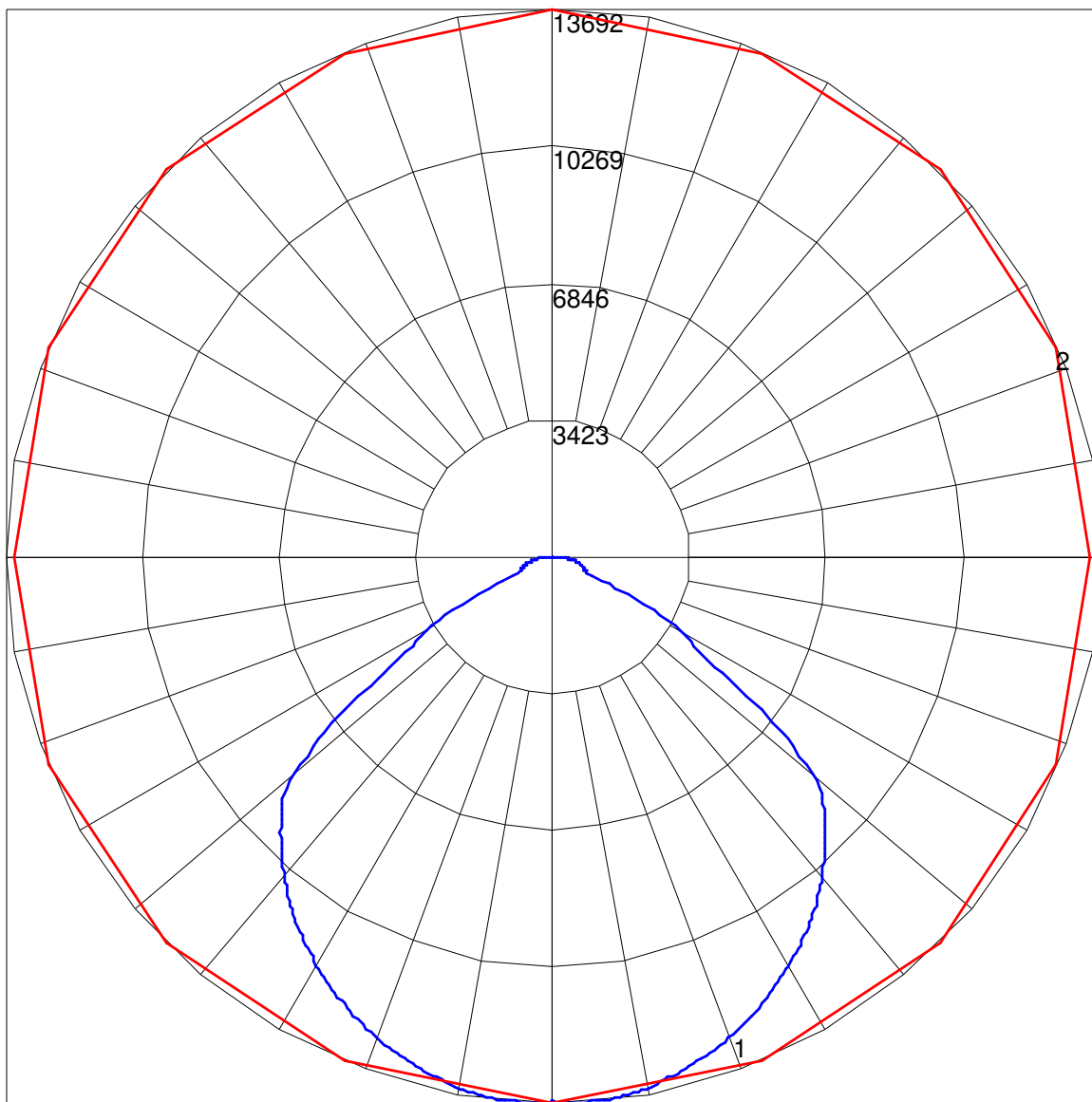
Reflectances

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					UGR Viewed Endwise				
X=2H	Y=2H	24.9	26.5	25.3	26.8	27.1	22.5	24.1	22.9	24.4	24.7
	3H	26.6	28.0	27.0	28.3	28.7	22.6	24.0	23.0	24.3	24.7
	4H	27.1	28.4	27.5	28.8	29.2	22.7	24.0	23.1	24.4	24.7
	6H	27.4	28.6	27.8	29.0	29.4	22.8	24.0	23.2	24.4	24.8
	8H	27.5	28.6	27.9	29.0	29.4	22.9	24.0	23.3	24.4	24.8
	12H	27.5	28.6	27.9	29.0	29.4	22.9	24.0	23.4	24.4	24.8
4H	2H	25.1	26.4	25.5	26.8	27.2	23.1	24.4	23.5	24.8	25.1
	3H	27.0	28.1	27.4	28.5	28.9	23.3	24.4	23.7	24.8	25.2
	4H	27.6	28.6	28.0	29.0	29.4	23.4	24.4	23.9	24.8	25.2
	6H	27.9	28.8	28.4	29.2	29.7	23.6	24.5	24.1	24.9	25.4
	8H	28.0	28.8	28.5	29.2	29.7	23.7	24.5	24.2	24.9	25.4
	12H	28.0	28.7	28.5	29.2	29.7	23.8	24.5	24.3	25.0	25.5
8H	4H	27.5	28.3	28.0	28.8	29.2	23.6	24.4	24.1	24.8	25.3
	6H	27.9	28.5	28.4	29.0	29.5	23.9	24.5	24.4	25.0	25.5
	8H	28.0	28.6	28.5	29.1	29.6	24.0	24.6	24.5	25.1	25.6
	12H	28.1	28.6	28.6	29.1	29.6	24.2	24.7	24.7	25.2	25.8
12H	4H	27.5	28.2	28.0	28.7	29.2	23.6	24.3	24.1	24.8	25.3
	6H	27.9	28.5	28.4	28.9	29.5	23.9	24.5	24.4	24.9	25.5
	8H	28.0	28.5	28.5	29.0	29.5	24.1	24.6	24.6	25.1	25.7

Maximum UGR = 29.7

POLAR GRAPH



Maximum Candela = 13692.229 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.)