



IES INDOOR REPORT

PHOTOMETRIC FILENAME : GS-4-L360-840-HA-MD-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] 14629546.02
[TESTLAB] UL Verification Services Inc.
[ISSUE DATE] 2023-03-14
[TEST DATE] 1/5/2023
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMCAT] GS-4-L360-840-HA-MD-DIM-UNV
[LUMINAIRE] White aluminum housing, prismatic lense enclosure
[LAMP] 448 White LEDs
[BALLAST] ULT D21CC80UNVPW-C

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	34203
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	147
Total Luminaire Watts	232
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.28
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	32263	31349	27413
55	24363	22848	19302
65	18929	17117	15928
75	18230	14890	16035
85	16298	11054	12282

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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	15462.8131	5462.8131	5462.8131	5462.8131	5462.813
0.5	15327.7011	5447.8001	5492.8381	5462.8131	5477.825
1.0	15327.7011	5447.8001	5492.8381	5447.8001	5477.825
1.5	15327.7011	5447.8001	5492.8381	5447.8001	5477.825
2.0	15312.6881	5447.8001	5477.8251	5432.7881	5462.813
2.5	15312.6881	5432.7881	5477.8251	5432.7881	5447.800
3.0	15297.6761	5417.7751	5462.8131	5417.7751	5432.788
3.5	15297.6761	5417.7751	5447.8001	5402.7631	5432.788
4.0	15282.6631	5402.7631	5432.7881	5387.7501	5417.775
4.5	15267.6511	5387.7501	5417.7751	5372.7381	5402.763
5.0	15267.6511	5372.7381	5417.7751	5372.7381	5387.750
5.5	15252.6391	5357.7261	5402.7631	5357.7261	5372.738
6.0	15237.6261	5342.7131	5387.7501	5342.7131	5357.726
6.5	15222.6141	5342.7131	5372.7381	5327.7011	5342.713
7.0	15207.6011	5312.6881	5357.7261	5312.6881	5327.701
7.5	15177.5761	5297.6761	5342.7131	5297.6761	5312.688
8.0	15162.5641	5282.6631	5327.7011	5282.6631	5297.676
8.5	15147.5511	5267.6511	5312.6881	5267.6511	5267.651
9.0	15117.5271	5237.6261	5282.6631	5252.6391	5252.639
9.5	15102.5141	5222.6141	5267.6511	5222.6141	5237.626
10.0	15072.4891	5207.6011	5252.6391	5207.6011	5207.601
10.5	15042.4641	5177.5761	5222.6141	5177.5761	5192.589
11.0	15027.4521	5147.5511	5192.5891	5147.5511	5162.564
11.5	14998.9281	5117.5271	5162.5641	5117.5271	5132.539
12.0	14971.9061	5087.5021	5132.5391	5087.5021	5102.514
12.5	14943.3821	5057.4771	5102.5141	5057.4771	5072.489
13.0	14911.8561	5027.4521	5072.4891	5027.4521	5042.464
13.5	14875.8261	4986.9181	5042.4641	4989.9211	5012.439
14.0	14839.7961	4950.8881	4995.9261	4955.3921	4977.911
14.5	14800.7641	4913.3571	4956.8931	4919.3621	4944.884
15.0	14760.2311	4877.3281	4917.8611	4880.3301	4910.355
15.5	14716.6941	4836.7941	4875.8261	4841.2981	4875.826
16.0	14673.1581	4794.7591	4830.7891	4802.2651	4836.794
16.5	14628.1211	4751.2231	4787.2531	4761.7321	4796.260
17.0	14581.5821	4704.6841	4740.7141	4718.1961	4752.724
17.5	14532.0411	4655.1431	4695.6771	4674.6601	4707.687
18.0	14480.9991	4605.6021	4650.6401	4628.1211	4661.148
18.5	14432.9591	4554.5601	4602.6001	4580.0811	4608.605
19.0	14381.9171	4503.5181	4554.5601	4530.5401	4559.064
19.5	14332.3761	4449.4731	4505.0191	4479.4981	4506.520
20.0	14279.8321	4393.9271	4447.9721	4429.9571	4456.979
20.5	14222.7851	4333.8771	4386.4211	4380.4161	4401.433
21.0	14164.2371	4269.3241	4318.8651	4327.8721	4347.388
21.5	14104.1871	4204.7701	4261.8181	4270.8251	4290.341
22.0	14041.1351	4140.2171	4201.7681	4213.7781	4233.294
22.5	13973.5791	4071.1601	4134.2121	4152.2271	4171.743
23.0	13904.5211	4002.1021	4063.6531	4087.6731	4105.688
23.5	13832.4621	3931.5441	3993.0951	4020.1171	4039.633
24.0	13755.8981	3856.4821	3918.0331	3949.5591	3972.077
24.5	13680.8361	3779.9181	3844.4721	3875.9981	3903.020
25.0	13602.7711	3703.3551	3770.9111	3799.4341	3830.961
25.5	13520.2031	3620.7861	3692.8461	3719.8681	3757.400
26.0	13439.1361	3541.2201	3614.7811	3637.3001	3677.834
26.5	13356.5671	3455.6501	3532.2131	3554.7321	3596.766

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CANDELA TABULATION - (Cont.)

27.0	13269.49513371.58013448.14313467.65913512.697
27.5	13180.92213284.50813361.07113379.08613425.625
28.0	13087.84513194.43313270.99713286.00913334.049
28.5	12994.76813101.35613176.41813191.43113237.969
29.0	12889.68113005.27613080.33913092.34813137.386
29.5	12789.09712906.19412981.25612990.26413032.299
30.0	12685.51112804.11012877.67112883.67612922.708
30.5	12577.42212700.52412769.58112771.08212805.611
31.0	12466.33012593.93512659.99012647.98012682.509
31.5	12353.73612485.84612544.39412518.87312551.901
32.0	12241.14312377.75612430.30012400.27512434.804
32.5	12122.54512260.65912310.20012272.66912305.697
33.0	12006.94912143.56212187.09812133.05412124.046
33.5	11885.34812020.46012057.99111991.93711957.408
34.0	11762.24611892.85511927.38311841.81211787.767
34.5	11640.64611763.74811792.27111682.68011612.122
35.0	11510.03711633.13911652.65611519.04511427.469
35.5	11379.42911499.52911507.03511347.90311232.307
36.0	11242.81611359.91311356.91011169.25511032.642
36.5	11103.20011215.79411199.28010981.59910825.470
37.0	10960.58211068.67211038.64710790.94210615.296
37.5	10814.96110918.54710873.51010591.27610400.618
38.0	10663.33610766.92210706.87210391.61110179.935
38.5	10508.70810610.79210534.22910185.9409959.252
39.0	10351.07710453.16210358.5839975.766 9732.565
39.5	10188.94310294.03010178.4349764.091 9507.378
40.0	10025.30710131.8959995.282 9550.914 9280.690
40.5	9857.168 9968.260 9807.627 9334.735 9051.000
41.0	9687.527 9801.622 9619.971 9120.057 8807.798
41.5	9519.388 9631.981 9429.313 8902.377 8558.592
42.0	9348.246 9460.839 9234.152 8689.200 8351.420
42.5	9177.104 9288.196 9041.992 8491.036 8144.248
43.0	9004.461 9114.052 8849.833 8276.358 7926.568
43.5	8831.818 8936.905 8657.674 8048.169 7705.885
44.0	8659.175 8759.758 8464.013 7842.498 7488.205
44.5	8488.033 8579.609 8270.353 7635.327 7278.031
45.0	8318.393 8397.959 8082.697 7432.659 7067.857
45.5	8145.750 8219.311 7892.039 7232.993 6862.186
46.0	7973.107 8040.663 7704.384 7037.832 6664.022
46.5	7804.967 7860.513 7521.232 6848.675 6471.863
47.0	7635.327 7683.367 7336.579 6662.521 6284.207
47.5	7465.686 7507.721 7156.430 6479.369 6104.058
48.0	7299.048 7332.075 6977.782 6302.222 5929.914
48.5	7132.410 7160.934 6800.635 6129.579 5760.273
49.0	6965.772 6991.293 6627.992 5958.437 5598.139
49.5	6797.633 6821.653 6458.351 5794.802 5442.009
50.0	6632.496 6655.014 6290.212 5634.169 5291.885
50.5	6470.361 6489.878 6123.574 5476.538 5144.763
51.0	6309.728 6327.743 5962.941 5326.414 5003.646
51.5	6147.594 6168.611 5802.308 5170.284 4870.035
52.0	5991.465 6010.981 5647.680 5029.167 4737.926
52.5	5833.834 5856.353 5500.558 4895.557 4611.821
53.0	5679.206 5703.226 5359.441 4763.447 4490.221
53.5	5527.580 5551.600 5204.813 4634.340 4371.622
54.0	5380.458 5402.977 5054.688 4508.236 4257.528
54.5	5236.339 5257.356 4913.571 4386.635 4146.436

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CANDELA TABULATION - (Cont.)

55.0	5095.222	5113.237	4778.459	4268.037	4036.845
55.5	4954.105	4970.619	4644.849	4152.441	3931.758
56.0	4820.494	4832.504	4514.241	4039.847	3829.673
56.5	4688.385	4695.891	4386.635	3931.758	3730.591
57.0	4557.777	4562.280	4262.032	3825.170	3633.010
57.5	4433.173	4431.672	4140.431	3721.584	3538.432
58.0	4313.074	4305.568	4021.833	3621.000	3446.856
58.5	4194.476	4180.964	3904.736	3523.420	3358.283
59.0	4078.880	4060.865	3790.641	3427.340	3272.712
59.5	3964.785	3942.267	3679.549	3334.263	3188.642
60.0	3856.696	3826.671	3571.459	3245.689	3109.076
60.5	3750.107	3717.080	3466.372	3157.116	3032.513
61.0	3646.522	3608.990	3362.786	3073.046	2955.949
61.5	3544.437	3503.903	3262.203	2990.478	2883.890
62.0	3446.856	3403.320	3164.622	2912.413	2814.832
62.5	3352.278	3305.739	3070.044	2835.850	2748.778
63.0	3259.201	3214.163	2976.967	2760.788	2685.725
63.5	3164.622	3127.091	2888.393	2688.728	2624.174
64.0	3056.533	3028.009	2802.822	2619.671	2565.626
64.5	2987.475	2943.939	2718.753	2553.616	2508.579
65.0	2916.917	2862.872	2637.686	2489.062	2454.534
65.5	2837.351	2783.306	2559.621	2427.511	2401.990
66.0	2763.790	2696.234	2484.559	2365.960	2350.948
66.5	2690.229	2619.671	2410.998	2307.412	2301.407
67.0	2621.172	2546.110	2338.938	2250.365	2253.367
67.5	2553.616	2474.050	2271.382	2194.819	2205.327
68.0	2489.062	2404.993	2205.327	2140.774	2158.789
68.5	2426.010	2337.437	2140.774	2088.230	2112.250
69.0	2365.960	2271.382	2077.722	2035.687	2067.213
69.5	2308.913	2206.829	2017.672	1984.645	2022.176
70.0	2251.866	2143.776	1957.622	1935.103	1978.640
70.5	2196.320	2082.225	1900.575	1884.061	1933.602
71.0	2142.275	2022.176	1842.026	1834.520	1890.066
71.5	2088.230	1962.126	1786.480	1784.979	1845.029
72.0	2037.188	1902.076	1730.934	1735.438	1799.991
72.5	1984.645	1843.528	1670.885	1684.396	1753.453
73.0	1933.602	1784.979	1616.840	1634.855	1706.914
73.5	1884.061	1726.431	1565.797	1582.311	1660.376
74.0	1834.520	1667.882	1511.753	1531.269	1612.336
74.5	1774.470	1609.334	1456.207	1478.725	1562.795
75.0	1720.426	1550.785	1405.164	1426.182	1513.254
75.5	1664.880	1493.738	1354.122	1372.137	1460.710
76.0	1607.832	1435.189	1292.571	1319.593	1409.668
76.5	1550.785	1376.641	1237.025	1265.549	1355.623
77.0	1492.236	1319.593	1181.479	1211.504	1301.579
77.5	1433.688	1261.045	1125.933	1157.459	1246.032
78.0	1372.137	1203.998	1071.888	1101.913	1188.985
78.5	1309.085	1145.449	1016.342	1047.868	1131.938
79.0	1247.534	1088.402	962.297	993.823	1073.389
79.5	1185.983	1029.853	905.250	938.277	1014.841
80.0	1122.930	972.806	851.205	884.233	956.292
80.5	1059.878	915.759	797.161	830.188	896.243
81.0	996.826	858.712	743.116	776.143	837.694
81.5	935.275	803.166	689.071	723.600	777.644
82.0	873.724	749.121	636.527	671.056	719.096
82.5	812.173	693.575	583.984	620.014	662.049

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CANDELA TABULATION - (Cont.)

83.0	752.123	635.026	534.443	568.971	605.001
83.5	692.073	586.986	486.403	519.430	550.957
84.0	633.525	540.448	438.363	469.889	495.411
84.5	574.976	487.904	393.326	423.351	442.867
85.0	517.929	441.366	351.291	376.812	390.323
85.5	462.383	396.328	309.256	333.276	342.284
86.0	405.336	349.790	270.224	291.241	292.743
86.5	351.291	304.753	234.194	246.204	249.206
87.0	297.246	259.715	198.164	204.169	205.670
87.5	244.703	214.678	163.636	165.137	165.137
88.0	192.159	174.144	132.109	129.107	129.107
88.5	141.117	138.114	103.586	99.082	94.578
89.0	99.082	106.588	79.566	73.561	69.057
89.5	67.556	79.566	57.047	52.544	52.544
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-MD-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
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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-MD-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	5660.1	N.A.	16.50
0-30	11982.59	N.A.	35.00
0-40	19159.4	N.A.	56.00
0-60	29480.92	N.A.	86.20
0-80	33734.54	N.A.	98.60
0-90	34202.78	N.A.	100.00
10-90	32740.88	N.A.	95.70
20-40	13499.31	N.A.	39.50
20-50	19599.14	N.A.	57.30
40-70	12998.95	N.A.	38.00
60-80	4253.62	N.A.	12.40
70-80	1576.2	N.A.	4.60
80-90	468.23	N.A.	1.40
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	34202.78	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1461.9
10-20	4198.2
20-30	6322.5
30-40	7176.81
40-50	6099.83
50-60	4221.69
60-70	2677.43
70-80	1576.2
80-90	468.23
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-MD-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	99	107	104	100	97	99	97	94	95	93	91	92	90	88	86
2	101	94	88	83	99	92	86	82	89	84	80	85	81	78	82	79	76	74
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64
4	86	75	67	61	84	74	66	61	71	65	60	69	64	59	67	62	58	56
5	80	68	60	53	78	67	59	53	65	58	53	63	57	52	61	56	52	50
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44
7	69	56	48	42	67	56	48	42	54	47	42	53	46	42	51	46	41	40
8	64	52	44	38	63	51	43	38	50	43	38	49	42	38	47	42	37	36
9	60	48	40	35	59	47	40	35	46	39	34	45	39	34	44	38	34	32
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	30

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GS-4-L360-840-HA-MD-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	22.3	23.8	22.7	24.1	24.5	21.1	22.6	21.4	22.9	23.2
	3H	23.8	25.1	24.1	25.4	25.8	22.6	24.0	23.0	24.3	24.7
	4H	24.4	25.7	24.8	26.0	26.4	23.3	24.6	23.7	25.0	25.3
	6H	25.0	26.1	25.4	26.5	26.9	23.9	25.1	24.3	25.4	25.8
	8H	25.1	26.3	25.6	26.6	27.0	24.1	25.2	24.5	25.6	26.0
	12H	25.3	26.3	25.7	26.7	27.2	24.2	25.3	24.7	25.7	26.1

UGR Viewed Endwise

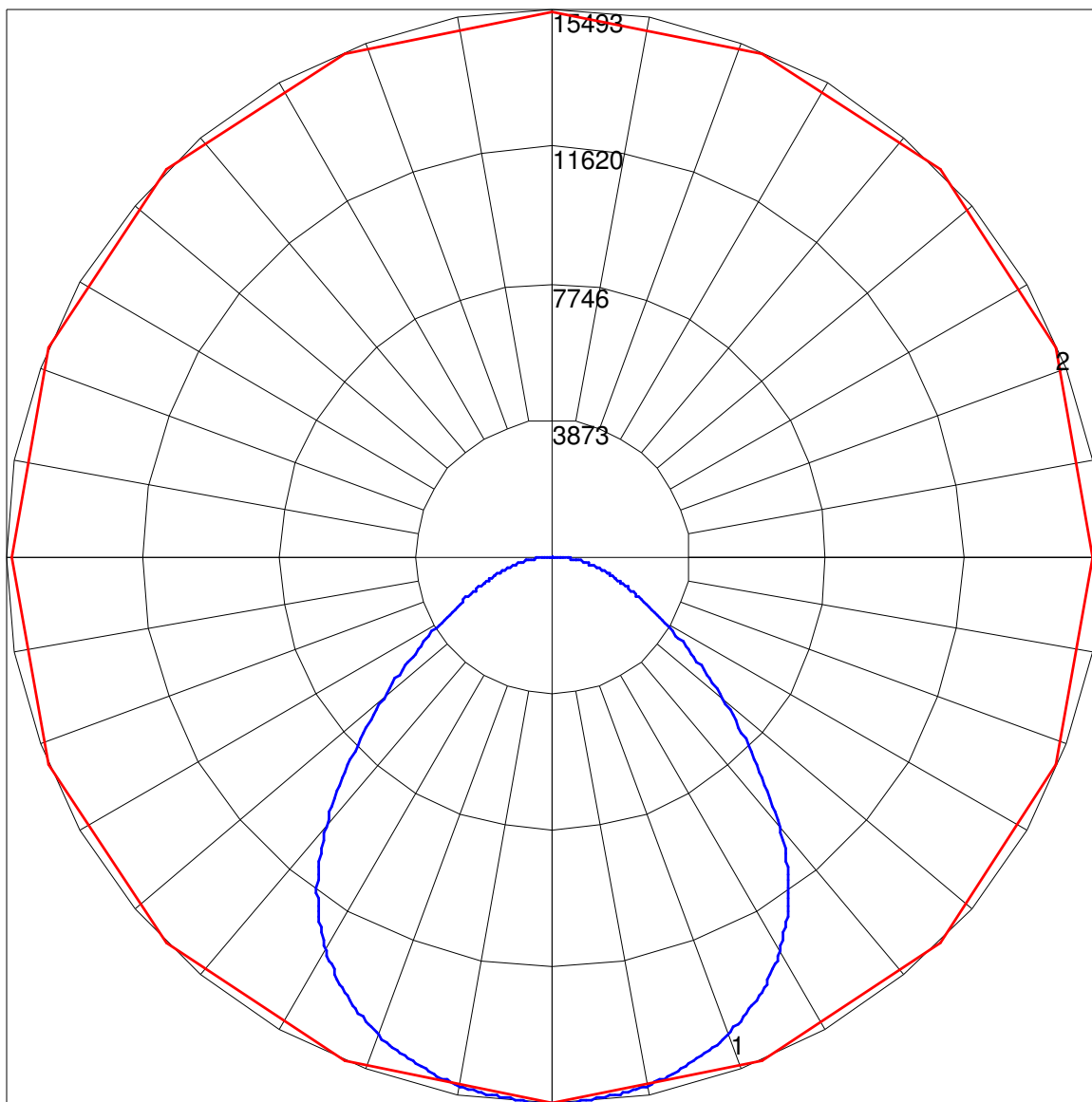
4H	2H	22.7	23.9	23.1	24.3	24.7	21.6	22.9	22.0	23.2	23.6
	3H	24.4	25.4	24.8	25.8	26.2	23.4	24.5	23.8	24.9	25.3
	4H	25.2	26.1	25.6	26.5	26.9	24.3	25.2	24.7	25.6	26.1
	6H	25.8	26.7	26.3	27.1	27.6	25.0	25.8	25.4	26.2	26.7
	8H	26.1	26.9	26.6	27.3	27.8	25.2	26.0	25.7	26.4	26.9
	12H	26.3	27.0	26.8	27.5	27.9	25.4	26.0	25.8	26.5	27.0

8H	4H	25.3	26.1	25.8	26.6	27.0	24.6	25.3	25.0	25.8	26.2
	6H	26.2	26.8	26.7	27.3	27.8	25.4	26.0	25.9	26.5	27.0
	8H	26.5	27.1	27.0	27.6	28.1	25.7	26.3	26.2	26.8	27.3
	12H	26.8	27.3	27.3	27.8	28.3	25.9	26.4	26.4	26.9	27.5

12H	4H	25.4	26.1	25.9	26.5	27.0	24.6	25.3	25.1	25.8	26.2
	6H	26.2	26.8	26.7	27.2	27.8	25.4	26.0	26.0	26.5	27.0
	8H	26.6	27.1	27.1	27.6	28.1	25.8	26.3	26.3	26.8	27.4

Maximum UGR = 28.3

POLAR GRAPH



Maximum Candela = 15492.838 Located At Horizontal Angle = 45, Vertical Angle = .5
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (.5) (Through Max. Cd.)