



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : GS-4-L360-840-CA-(L280)-DIM-UNV\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] GEN FROM 14728072.01  
[TESTLAB] UL Verification Services Inc.  
[ISSUEDATE] 3/22/2023  
[TESTDATE] 3/22/2023  
[MANUFAC] WILLIAMS INDOOR  
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.  
[LUMCAT] GS-4-L360-840-CA-(L280)-DIM-UNV  
[LUMINAIRE] LED highbay with smooth, clear acrylic sheilding  
[LAMP] 224 per board white LEDS  
[BALLAST] eldoLED OTI85

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	28326
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	148
Total Luminaire Watts	191.5
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.32
Spacing Criterion (90-270)	1.30
Spacing Criterion (Diagonal)	1.40
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.36 ft
Luminous Width (90-270)	1.24 ft
Luminous Height	0.00 ft

### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	27045	27121	27582
55	25698	26098	19539
65	22300	14634	5884
75	14652	4795	5145
85	3894	4126	4372

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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	10782.886	10782.886	10782.886	10782.886	10782.886
0.5	10887.051	10771.182	10764.159	10780.545	10765.330
1.0	10887.051	10766.500	10760.648	10784.056	10767.670
1.5	10891.733	10771.182	10760.648	10782.886	10773.522
2.0	10887.051	10765.330	10764.159	10782.886	10767.670
2.5	10883.540	10764.159	10759.478	10782.886	10768.841
3.0	10882.369	10757.137	10761.818	10779.374	10775.863
3.5	10875.347	10757.137	10757.137	10777.034	10766.500
4.0	10874.177	10753.626	10757.137	10778.204	10765.330
4.5	10871.836	10747.774	10752.455	10773.522	10759.478
5.0	10860.132	10739.581	10748.944	10768.841	10755.966
5.5	10860.132	10737.240	10746.603	10760.648	10754.796
6.0	10850.769	10732.558	10738.410	10759.478	10744.262
6.5	10839.065	10725.536	10733.729	10750.114	10737.240
7.0	10833.213	10718.514	10724.366	10741.922	10731.388
7.5	10825.020	10710.321	10717.343	10731.388	10723.195
8.0	10812.146	10700.958	10704.469	10720.854	10716.173
8.5	10803.953	10690.424	10692.765	10712.662	10706.810
9.0	10789.908	10678.720	10675.209	10699.787	10697.446
9.5	10780.545	10669.357	10665.846	10686.913	10672.868
10.0	10759.478	10652.971	10655.312	10672.868	10656.482
10.5	10744.262	10643.608	10637.756	10655.312	10637.756
11.0	10733.729	10628.393	10629.563	10638.926	10614.348
11.5	10715.002	10609.666	10614.348	10617.859	10594.451
12.0	10702.128	10595.622	10597.962	10594.451	10562.851
12.5	10678.720	10579.236	10575.725	10571.043	10541.783
13.0	10664.675	10560.510	10560.510	10539.443	10519.546
13.5	10650.630	10542.954	10542.954	10516.035	10497.308
14.0	10624.882	10526.568	10523.057	10492.627	10471.559
14.5	10606.155	10507.842	10497.308	10465.707	10451.663
15.0	10588.599	10486.775	10475.071	10445.811	10429.425
15.5	10559.339	10468.048	10449.322	10422.403	10398.995
16.0	10535.931	10446.981	10422.403	10403.676	10380.268
16.5	10516.035	10422.403	10391.972	10379.098	10362.712
17.0	10496.138	10402.506	10366.224	10354.520	10335.793
17.5	10468.048	10377.927	10336.964	10336.964	10312.385
18.0	10445.811	10358.031	10307.704	10313.556	10294.829
18.5	10424.743	10333.452	10279.614	10288.977	10271.421
19.0	10396.654	10308.874	10251.524	10259.717	10243.332
19.5	10369.735	10280.784	10216.412	10235.139	10217.583
20.0	10345.156	10250.354	10188.323	10210.560	10191.834
20.5	10310.044	10221.094	10161.404	10182.471	10166.085
21.0	10279.614	10194.175	10126.292	10155.552	10132.144
21.5	10252.695	10162.574	10097.032	10126.292	10104.054
22.0	10222.264	10130.973	10064.261	10094.691	10074.794
22.5	10187.152	10097.032	10027.978	10060.749	10036.171
23.0	10153.211	10064.261	9998.718	10027.978	10006.911
23.5	10115.758	10024.467	9965.947	9992.866	9977.651
24.0	10072.453	9985.844	9927.324	9957.754	9941.369
24.5	10033.830	9947.221	9888.701	9917.961	9905.086
25.0	9992.866	9900.405	9851.248	9879.338	9862.952
25.5	9951.902	9859.441	9804.432	9833.692	9823.158
26.0	9902.746	9816.136	9766.979	9789.217	9795.069
26.5	9861.782	9772.831	9723.674	9750.594	9754.105

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : GS-4-L360-840-CA-(L280)-DIM-UNV\_.IES****CANDELA TABULATION - (Cont.)**

27.0	9813.795	9722.504	9678.029	9706.118	9701.437
27.5	9766.979	9673.347	9634.724	9661.643	9663.984
28.0	9726.015	9625.361	9589.079	9618.339	9621.850
28.5	9675.688	9572.693	9543.433	9575.034	9570.352
29.0	9620.679	9521.195	9497.787	9525.877	9528.218
29.5	9570.352	9467.357	9452.142	9480.231	9484.913
30.0	9518.855	9411.178	9405.326	9433.416	9432.245
30.5	9459.164	9359.680	9354.999	9388.940	9386.600
31.0	9397.133	9299.990	9305.842	9342.124	9333.932
31.5	9339.784	9242.641	9254.345	9291.797	9283.604
32.0	9278.923	9186.461	9202.847	9240.300	9230.937
32.5	9228.596	9127.941	9151.349	9187.632	9181.780
33.0	9164.224	9065.910	9094.000	9132.623	9127.941
33.5	9106.874	9005.050	9037.821	9076.444	9064.740
34.0	9051.865	8941.848	8978.130	9022.606	9013.242
34.5	8988.664	8876.306	8919.610	8966.426	8960.574
35.0	8931.314	8818.956	8857.579	8907.906	8900.884
35.5	8861.090	8751.073	8796.719	8848.216	8840.023
36.0	8790.867	8682.019	8733.517	8785.015	8776.822
36.5	8713.620	8610.625	8666.804	8720.643	8717.131
37.0	8636.374	8538.060	8598.921	8655.100	8652.759
37.5	8556.787	8463.155	8529.868	8587.217	8586.047
38.0	8481.881	8389.420	8459.644	8520.504	8522.845
38.5	8408.146	8314.514	8389.420	8451.451	8453.792
39.0	8337.922	8238.438	8318.025	8383.568	8387.079
39.5	8264.187	8164.703	8245.461	8315.685	8320.366
40.0	8189.281	8089.798	8174.066	8245.461	8248.972
40.5	8112.035	8011.381	8101.502	8177.577	8181.089
41.0	8030.107	7935.305	8030.107	8108.524	8109.694
41.5	7945.838	7858.059	7959.883	8039.470	8038.300
42.0	7862.740	7779.642	7886.148	7971.587	7971.587
42.5	7780.812	7701.225	7814.754	7901.363	7902.534
43.0	7703.566	7626.320	7741.019	7832.310	7835.821
43.5	7632.172	7551.414	7666.113	7764.427	7766.767
44.0	7563.118	7475.338	7591.208	7694.203	7700.055
44.5	7491.724	7400.433	7516.302	7626.320	7634.512
45.0	7419.159	7326.697	7440.226	7556.096	7566.629
45.5	7340.742	7251.792	7364.150	7487.042	7499.916
46.0	7257.644	7174.546	7290.415	7416.818	7432.033
46.5	7176.886	7097.299	7215.510	7347.765	7358.298
47.0	7097.299	7018.883	7140.604	7277.541	7292.756
47.5	7021.223	6939.295	7066.869	7204.976	7219.021
48.0	6948.659	6860.879	6991.963	7133.582	7146.456
48.5	6871.412	6782.462	6915.887	7059.846	7075.062
49.0	6784.803	6700.534	6835.130	6984.941	6996.645
49.5	6697.023	6619.776	6753.202	6911.206	6920.569
50.0	6608.072	6536.678	6671.274	6836.300	6829.278
50.5	6519.122	6448.898	6585.835	6759.054	6701.704
51.0	6432.513	6362.289	6500.396	6680.637	6486.351
51.5	6352.926	6276.850	6417.297	6596.368	6155.128
52.0	6269.827	6191.410	6333.029	6509.759	5807.520
52.5	6175.025	6104.801	6251.101	6400.912	5468.104
53.0	6079.052	6015.851	6168.002	6239.397	5183.697
53.5	5985.420	5924.559	6081.393	5978.398	4964.832
54.0	5895.300	5832.098	5990.102	5635.471	4795.125
54.5	5809.860	5738.466	5898.811	5290.203	4624.246

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55.0	5718.569	5644.834	5807.520	4987.070	4348.032
55.5	5623.767	5552.373	5717.399	4737.775	4030.854
56.0	5523.113	5462.252	5624.937	4549.341	3740.595
56.5	5422.458	5366.279	5532.476	4392.507	3497.152
57.0	5327.656	5269.136	5437.674	4172.472	3367.238
57.5	5231.683	5171.993	5340.530	3858.805	3288.821
58.0	5129.859	5074.850	5243.387	3558.013	3232.642
58.5	5025.693	4976.536	5140.392	3305.207	3177.633
59.0	4921.528	4875.882	5037.397	3147.203	3116.772
59.5	4823.214	4775.228	4922.698	3060.593	3061.764
60.0	4722.560	4672.233	4775.228	2999.733	3006.755
60.5	4618.394	4570.408	4551.682	2942.383	2934.190
61.0	4515.399	4469.754	4255.571	2883.863	2813.639
61.5	4410.063	4367.929	3954.778	2824.173	2650.954
62.0	4302.387	4263.763	3690.268	2762.142	2406.340
62.5	4198.221	4158.427	3477.255	2693.088	2083.310
63.0	4089.374	4055.432	3314.570	2571.366	1791.881
63.5	3981.697	3950.096	3148.373	2403.999	1604.617
64.0	3874.021	3844.761	2892.056	2133.637	1416.183
64.5	3768.685	3742.936	2621.694	1835.186	1165.249
65.0	3656.326	3636.430	2399.318	1592.913	964.760
65.5	3543.968	3527.582	2263.552	1411.501	871.947
66.0	3435.121	3421.076	2185.135	1210.193	841.751
66.5	3319.251	3313.399	2120.763	973.070	825.131
67.0	3209.234	3204.552	2055.221	832.388	807.809
67.5	3098.046	3098.046	1989.678	786.391	791.775
68.0	2985.688	2995.051	1922.965	768.133	774.336
68.5	2875.670	2886.204	1850.401	750.928	758.301
69.0	2759.801	2775.016	1727.509	733.489	741.799
69.5	2649.783	2666.169	1508.644	715.699	725.179
70.0	2540.936	2558.492	1265.201	698.728	708.442
70.5	2427.407	2453.156	1098.653	681.640	690.535
71.0	2317.390	2345.479	926.839	664.201	672.862
71.5	2205.032	2238.973	740.980	646.762	654.838
72.0	2099.696	2128.956	613.172	628.504	636.229
72.5	1989.678	1999.041	574.198	610.480	618.205
73.0	1879.661	1843.378	554.184	591.871	598.308
73.5	1776.666	1672.500	535.809	573.261	578.294
74.0	1674.841	1494.599	517.316	554.184	558.397
74.5	1569.505	1322.551	499.292	535.223	536.511
75.0	1471.191	1183.273	481.502	515.093	516.614
75.5	1371.708	1040.485	463.829	495.079	494.962
76.0	1274.564	904.016	445.805	474.480	474.363
76.5	1184.444	810.150	428.015	454.115	453.061
77.0	1090.227	748.938	409.874	433.399	432.462
77.5	1003.617	694.749	391.850	413.502	412.566
78.0	915.252	630.962	373.825	393.137	391.381
78.5	837.655	554.418	355.216	373.357	371.251
79.0	759.238	447.912	337.309	353.578	351.939
79.5	685.503	360.249	318.934	333.681	331.691
80.0	612.353	290.142	300.793	314.837	312.848
80.5	548.683	249.529	282.183	295.643	293.770
81.0	485.833	231.505	264.627	277.150	274.693
81.5	426.493	215.002	247.071	258.775	257.020
82.0	373.708	199.787	229.866	241.219	239.464
82.5	321.626	185.040	213.013	224.014	222.727

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : GS-4-L360-840-CA-(L280)-DIM-UNV\_.IES****CANDELA TABULATION - (Cont.)**

83.0	274.693	170.761	196.978	207.629	206.458
83.5	231.037	156.950	181.880	191.477	190.658
84.0	194.871	143.491	167.016	176.379	175.092
84.5	160.111	130.734	152.971	161.749	160.813
85.0	131.670	119.381	139.512	148.290	147.821
85.5	106.623	108.028	126.988	135.181	134.947
86.0	87.078	97.728	115.284	123.360	123.594
86.5	71.980	88.014	104.400	112.475	113.529
87.0	60.510	79.236	94.451	102.293	103.931
87.5	51.849	69.873	84.620	93.632	95.270
88.0	45.177	61.212	75.959	84.386	85.088
88.5	38.155	51.029	64.489	68.702	64.255
89.0	27.973	36.399	44.592	40.496	36.868
89.5	21.418	22.940	18.492	17.790	17.556
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

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : GS-4-L360-840-CA-(L280)-DIM-UNV\_.IES****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-CA-(L280)-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-CA-(L280)-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-CA-(L280)-DIM-UNV\_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	3986.05	N.A.	14.10
0-30	8542.66	N.A.	30.20
0-40	14085.07	N.A.	49.70
0-60	24646.34	N.A.	87.00
0-80	28160.74	N.A.	99.40
0-90	28326.24	N.A.	100.00
10-90	27301.32	N.A.	96.40
20-40	10099.02	N.A.	35.70
20-50	15850.75	N.A.	56.00
40-70	13186.88	N.A.	46.60
60-80	3514.4	N.A.	12.40
70-80	888.79	N.A.	3.10
80-90	165.50	N.A.	0.60
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	28326.24	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	1024.92
10-20	2961.13
20-30	4556.61
30-40	5542.41
40-50	5751.73
50-60	4809.54
60-70	2625.61
70-80	888.79
80-90	165.50
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-CA-(L280)-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	100	97	94	96	93	91	92	90	89	87
2	101	94	87	82	98	92	86	81	88	83	79	85	81	78	82	79	76	74
3	93	83	75	69	90	81	74	69	78	72	67	76	71	66	73	69	65	63
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	66	61	56	54
5	78	66	58	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47
6	72	60	51	45	70	59	51	45	57	50	44	55	49	44	54	48	44	42
7	67	54	46	40	65	53	45	40	52	44	39	50	44	39	49	43	39	37
8	62	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35	33
9	58	45	37	32	57	45	37	32	44	37	32	42	36	31	41	36	31	30
10	55	42	34	29	53	41	34	29	40	33	29	39	33	29	38	33	28	27

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : GS-4-L360-840-CA-(L280)-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

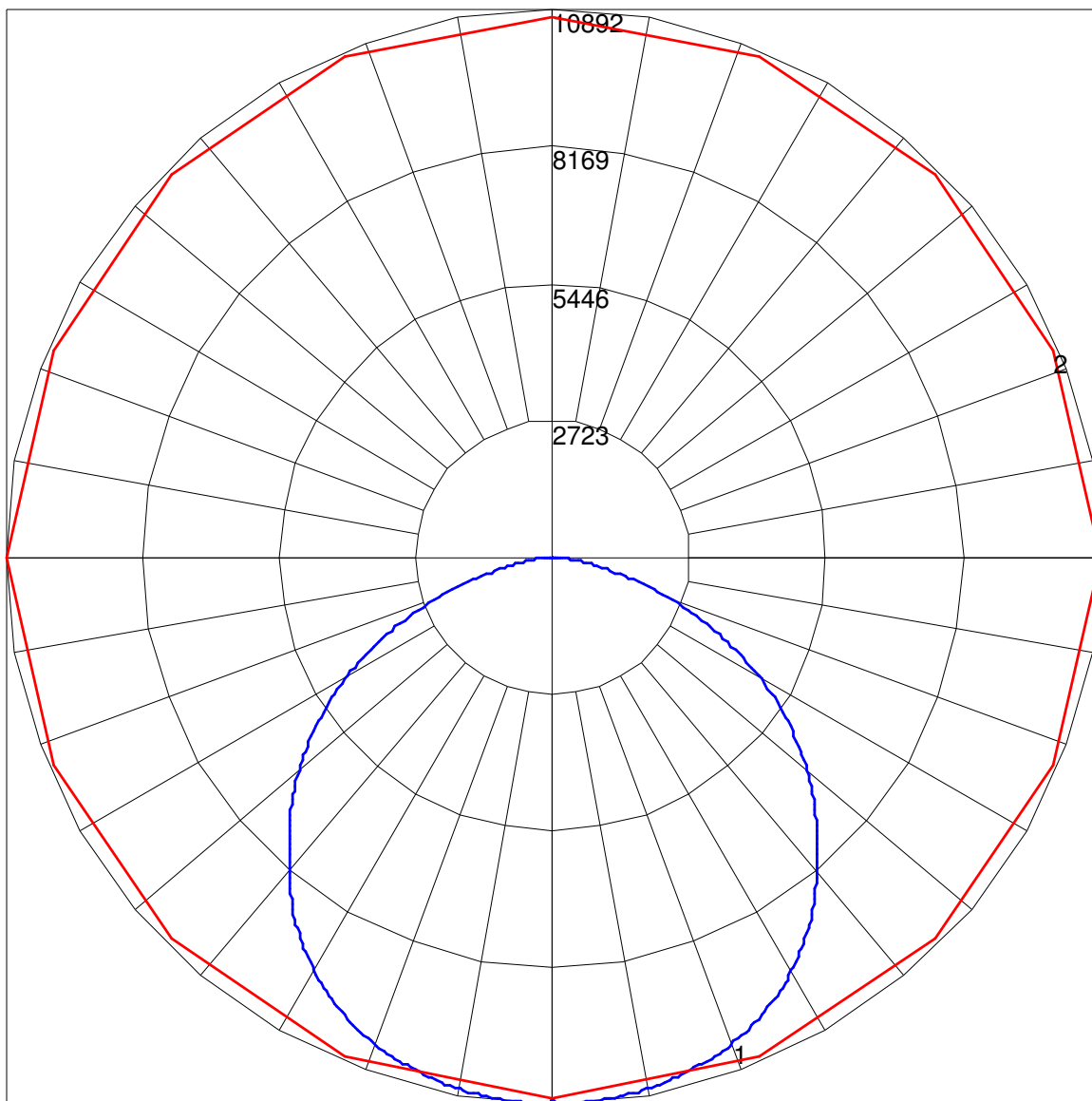
X=2H	Y=2H	23.8	25.3	24.1	25.6	26.0	21.4	23.0	21.8	23.3	23.6
	3H	25.3	26.7	25.7	27.0	27.4	21.5	22.9	21.9	23.3	23.6
	4H	25.7	26.9	26.1	27.3	27.7	21.7	23.0	22.1	23.3	23.7
	6H	25.8	27.0	26.2	27.3	27.7	21.7	22.9	22.1	23.3	23.7
	8H	25.8	26.9	26.2	27.3	27.7	21.7	22.9	22.2	23.3	23.7
	12H	25.8	26.9	26.2	27.2	27.7	21.8	22.8	22.2	23.2	23.7

### UGR Viewed Endwise

4H	2H	24.0	25.3	24.4	25.6	26.0	21.9	23.2	22.3	23.6	23.9
	3H	25.6	26.7	26.0	27.1	27.5	22.2	23.2	22.6	23.6	24.0
	4H	26.1	27.0	26.5	27.4	27.9	22.3	23.3	22.7	23.7	24.1
	6H	26.2	27.1	26.7	27.5	28.0	22.4	23.3	22.9	23.7	24.2
	8H	26.2	27.0	26.7	27.4	27.9	22.4	23.2	22.9	23.7	24.1
	12H	26.2	26.9	26.7	27.4	27.9	22.5	23.2	23.0	23.7	24.1
8H	4H	26.0	26.8	26.4	27.2	27.7	22.4	23.2	22.9	23.6	24.1
	6H	26.2	26.8	26.7	27.3	27.8	22.6	23.2	23.1	23.7	24.2
	8H	26.2	26.7	26.7	27.3	27.7	22.6	23.2	23.2	23.7	24.2
	12H	26.2	26.7	26.7	27.2	27.7	22.7	23.2	23.2	23.7	24.3
12H	4H	26.0	26.7	26.4	27.1	27.6	22.4	23.1	22.9	23.6	24.1
	6H	26.1	26.7	26.7	27.2	27.7	22.6	23.2	23.1	23.6	24.2
	8H	26.1	26.7	26.7	27.1	27.7	22.7	23.2	23.2	23.7	24.2

Maximum UGR = 28.0

POLAR GRAPH



Maximum Candela = 10891.733 Located At Horizontal Angle = 0, Vertical Angle = 1.5  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (1.5) (Through Max. Cd.)