



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : GS-4-L360-835-HA-MD-DIM-UNV\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] 14629546.02  
[TESTLAB] UL Verification Services Inc.  
[ISSUEDATE] 2023-03-14  
[TESTDATE] 1/5/2023  
[MANUFAC] WILLIAMS INDOOR  
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.  
[LUMCAT] GS-4-L360-835-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	33177
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	143
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	31295	30409	26591
55	23632	22163	18723
65	18361	16604	15451
75	17683	14443	15554
85	15809	10722	11914

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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	14998.932	14998.932	14998.932	14998.932	14998.932
0.5	14867.874	14984.370	15028.057	14998.932	15013.495
1.0	14867.874	14984.370	15028.057	14984.370	15013.495
1.5	14867.874	14984.370	15028.057	14984.370	15013.495
2.0	14853.312	14984.370	15013.495	14969.808	14998.932
2.5	14853.312	14969.808	15013.495	14969.808	14984.370
3.0	14838.750	14955.246	14998.932	14955.246	14969.808
3.5	14838.750	14955.246	14984.370	14940.684	14969.808
4.0	14824.188	14940.684	14969.808	14926.122	14955.246
4.5	14809.626	14926.122	14955.246	14911.560	14940.684
5.0	14809.626	14911.560	14955.246	14911.560	14926.122
5.5	14795.063	14896.998	14940.684	14896.998	14911.560
6.0	14780.501	14882.436	14926.122	14882.436	14896.998
6.5	14765.939	14882.436	14911.560	14867.874	14882.436
7.0	14751.377	14853.312	14896.998	14853.312	14867.874
7.5	14722.253	14838.750	14882.436	14838.750	14853.312
8.0	14707.691	14824.188	14867.874	14824.188	14838.750
8.5	14693.129	14809.626	14853.312	14809.626	14809.626
9.0	14664.005	14780.501	14824.188	14795.063	14795.063
9.5	14649.443	14765.939	14809.626	14765.939	14780.501
10.0	14620.319	14751.377	14795.063	14751.377	14751.377
10.5	14591.195	14722.253	14765.939	14722.253	14736.815
11.0	14576.632	14693.129	14736.815	14693.129	14707.691
11.5	14548.965	14664.005	14707.691	14664.005	14678.567
12.0	14522.753	14634.881	14678.567	14634.881	14649.443
12.5	14495.085	14605.757	14649.443	14605.757	14620.319
13.0	14464.504	14576.632	14620.319	14576.632	14591.195
13.5	14429.556	14537.315	14591.195	14540.227	14562.070
14.0	14394.607	14502.366	14546.052	14506.735	14528.578
14.5	14356.745	14465.961	14508.191	14471.786	14496.541
15.0	14317.428	14431.012	14470.329	14433.924	14463.048
15.5	14275.198	14391.694	14429.556	14396.063	14429.556
16.0	14232.968	14350.920	14385.869	14358.201	14391.694
16.5	14189.281	14308.690	14343.639	14318.884	14352.377
17.0	14144.139	14263.548	14298.497	14276.654	14310.147
17.5	14096.084	14215.493	14254.811	14234.424	14266.460
18.0	14046.573	14167.438	14211.124	14189.281	14221.318
18.5	13999.974	14117.927	14164.526	14142.683	14170.351
19.0	13950.463	14068.416	14117.927	14094.628	14122.296
19.5	13902.409	14015.993	14069.872	14045.117	14071.329
20.0	13851.441	13962.113	14014.537	13997.062	14023.274
20.5	13796.105	13903.865	13954.832	13949.007	13969.394
21.0	13739.313	13841.248	13889.303	13898.040	13916.971
21.5	13681.065	13778.631	13833.967	13842.704	13861.635
22.0	13619.904	13716.014	13775.719	13787.368	13806.299
22.5	13554.375	13649.029	13710.189	13727.664	13746.594
23.0	13487.390	13582.043	13641.748	13665.047	13682.521
23.5	13417.492	13513.601	13573.306	13599.518	13618.448
24.0	13343.225	13440.791	13500.495	13531.076	13552.919
24.5	13270.415	13366.524	13429.141	13459.722	13485.933
25.0	13194.692	13292.258	13357.787	13385.455	13416.035
25.5	13114.601	13212.166	13282.064	13308.276	13344.681
26.0	13035.965	13134.987	13206.342	13228.185	13267.502
26.5	12955.874	13051.984	13126.250	13148.093	13188.867

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**CANDELA TABULATION - (Cont.)**

27.0	12871.41412970.43613044.70313063.63313107.320
27.5	12785.49812885.97612960.24312977.71713022.860
28.0	12695.21312798.60412872.87012887.43212934.031
28.5	12604.92812708.31912781.12912795.69112840.834
29.0	12502.99412615.12212687.93212699.58212743.268
29.5	12405.42812519.01212591.82212600.55912641.333
30.0	12304.94912419.99012491.34412497.16912535.030
30.5	12200.10312319.51212386.49712387.95312421.446
31.0	12092.34312216.12112280.19412268.54412302.037
31.5	11983.12812111.27412168.06612143.31012175.347
32.0	11873.91212006.42712057.39412028.27012061.763
32.5	11758.87211892.84311940.89811904.49311936.529
33.0	11646.74411779.25911821.48911769.06511760.328
33.5	11528.79111659.85011696.25511632.18211598.689
34.0	11409.38211536.07211569.56511486.56111434.138
34.5	11291.42911410.83811438.50611332.20311263.761
35.0	11164.73911284.14811303.07911173.47711084.648
35.5	11038.04911154.54611161.82711007.46910895.341
36.0	10905.53411019.11911016.20610834.18010701.666
36.5	10770.10710879.32310863.30410652.15410500.709
37.0	10631.76810736.61410707.49010467.21610296.840
37.5	10490.51510590.99410547.30810273.54110088.602
38.0	10343.43910443.91710385.66910079.8659874.540
38.5	10193.44910292.47110218.2059880.365 9660.477
39.0	10040.54810139.57010047.8299676.496 9440.590
39.5	9883.277 9985.212 9873.084 9471.171 9222.159
40.0	9724.551 9827.941 9695.426 9264.389 9002.272
40.5	9561.455 9669.215 9513.401 9054.695 8779.472
41.0	9396.904 9507.576 9331.375 8846.458 8543.567
41.5	9233.809 9343.024 9146.436 8635.308 8301.836
42.0	9067.801 9177.017 8957.129 8428.526 8100.880
42.5	8901.794 9009.553 8770.735 8236.307 7899.923
43.0	8734.330 8840.633 8584.340 8028.069 7688.773
43.5	8566.866 8668.800 8397.946 7806.726 7474.711
44.0	8399.402 8496.968 8210.095 7607.226 7263.561
44.5	8233.395 8322.223 8022.245 7406.269 7059.692
45.0	8068.843 8146.022 7840.219 7209.681 6855.823
45.5	7901.379 7972.734 7655.280 7016.006 6656.322
46.0	7733.916 7799.445 7473.255 6826.699 6464.103
46.5	7570.820 7624.700 7295.597 6643.217 6277.709
47.0	7406.269 7452.868 7116.484 6462.647 6095.683
47.5	7241.718 7282.491 6941.739 6284.990 5920.938
48.0	7080.079 7112.115 6768.450 6113.157 5752.018
48.5	6918.440 6946.108 6596.618 5945.693 5587.466
49.0	6756.801 6781.556 6429.154 5779.686 5430.196
49.5	6593.705 6617.005 6264.603 5620.959 5278.751
50.0	6433.523 6455.366 6101.507 5465.145 5133.130
50.5	6276.252 6295.183 5939.869 5312.243 4990.422
51.0	6120.438 6137.913 5784.054 5166.623 4853.538
51.5	5963.168 5983.555 5628.240 5015.177 4723.936
52.0	5811.722 5830.653 5478.251 4878.294 4595.789
52.5	5658.821 5680.664 5335.543 4748.691 4473.468
53.0	5508.831 5532.131 5198.659 4620.545 4355.515
53.5	5361.754 5385.054 5048.670 4495.311 4240.475
54.0	5219.046 5240.889 4903.049 4372.990 4129.803
54.5	5079.250 5099.637 4766.166 4255.037 4022.044

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**CANDELA TABULATION - (Cont.)**

55.0	4942.367	4959.841	4635.107	4139.997	3915.741
55.5	4805.483	4821.501	4505.505	4027.869	3813.806
56.0	4675.881	4687.530	4378.815	3918.653	3714.784
56.5	4547.735	4555.016	4255.037	3813.806	3618.674
57.0	4421.045	4425.413	4134.172	3710.416	3524.021
57.5	4300.179	4298.723	4016.219	3609.937	3432.280
58.0	4183.683	4176.402	3901.179	3512.371	3343.451
58.5	4068.642	4055.537	3787.595	3417.718	3257.535
59.0	3956.515	3939.040	3676.923	3324.521	3174.531
59.5	3845.843	3824.000	3569.163	3234.236	3092.984
60.0	3740.996	3711.872	3464.317	3148.320	3015.805
60.5	3637.605	3605.569	3362.382	3062.403	2941.538
61.0	3537.127	3500.722	3261.904	2980.856	2867.272
61.5	3438.105	3398.787	3164.338	2900.764	2797.374
62.0	3343.451	3301.221	3069.684	2825.042	2730.388
62.5	3251.710	3206.568	2977.943	2750.775	2666.315
63.0	3161.425	3117.739	2887.659	2677.965	2605.154
63.5	3069.684	3033.279	2801.742	2608.067	2545.450
64.0	2964.838	2937.170	2718.739	2541.081	2488.658
64.5	2897.852	2855.622	2637.191	2477.008	2433.322
65.0	2829.410	2776.987	2558.556	2414.391	2380.899
65.5	2752.231	2699.808	2482.833	2354.687	2329.931
66.0	2680.877	2615.348	2410.023	2294.982	2280.420
66.5	2609.523	2541.081	2338.669	2238.190	2232.365
67.0	2542.537	2469.727	2268.771	2182.854	2185.767
67.5	2477.008	2399.829	2203.241	2128.975	2139.168
68.0	2414.391	2332.844	2139.168	2076.551	2094.026
68.5	2353.231	2267.314	2076.551	2025.584	2048.883
69.0	2294.982	2203.241	2015.391	1974.617	2005.197
69.5	2239.646	2140.624	1957.142	1925.106	1961.511
70.0	2184.311	2079.464	1898.894	1877.051	1919.281
70.5	2130.431	2019.759	1843.558	1827.540	1875.595
71.0	2078.007	1961.511	1786.766	1779.485	1833.365
71.5	2025.584	1903.263	1732.886	1731.430	1789.678
72.0	1976.073	1845.014	1679.007	1683.375	1745.992
72.5	1925.106	1788.222	1620.758	1633.864	1700.850
73.0	1875.595	1731.430	1568.335	1585.809	1655.707
73.5	1827.540	1674.638	1518.824	1534.842	1610.565
74.0	1779.485	1617.846	1466.400	1485.331	1563.966
74.5	1721.237	1561.054	1412.521	1434.364	1515.912
75.0	1668.813	1504.262	1363.010	1383.397	1467.857
75.5	1614.934	1448.926	1313.499	1330.973	1416.889
76.0	1559.598	1392.134	1253.794	1280.006	1367.378
76.5	1504.262	1335.342	1199.915	1227.583	1314.955
77.0	1447.470	1280.006	1146.035	1175.159	1262.532
77.5	1390.678	1223.214	1092.155	1122.736	1208.652
78.0	1330.973	1167.878	1039.732	1068.856	1153.316
78.5	1269.813	1111.086	985.852	1016.433	1097.980
79.0	1210.108	1055.750	933.429	964.009	1041.188
79.5	1150.404	998.958	878.093	910.129	984.396
80.0	1089.243	943.622	825.669	857.706	927.604
80.5	1028.082	888.286	773.246	805.282	869.356
81.0	966.921	832.950	720.822	752.859	812.564
81.5	907.217	779.071	668.399	701.892	754.315
82.0	847.512	726.647	617.432	650.925	697.523
82.5	787.808	672.768	566.465	601.414	642.187

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**CANDELA TABULATION - (Cont.)**

83.0	729.560	615.976	518.410	551.902	586.851
83.5	671.311	569.377	471.811	503.848	534.428
84.0	614.519	524.235	425.212	455.793	480.548
84.5	557.727	473.267	381.526	410.650	429.581
85.0	502.391	428.125	340.752	365.508	378.614
85.5	448.512	384.439	299.979	323.278	332.015
86.0	393.176	339.296	262.117	282.504	283.960
86.5	340.752	295.610	227.168	238.818	241.730
87.0	288.329	251.924	192.219	198.044	199.500
87.5	237.362	208.238	158.727	160.183	160.183
88.0	186.395	168.920	128.146	125.234	125.234
88.5	136.883	133.971	100.478	96.110	91.741
89.0	96.110	103.391	77.179	71.354	66.986
89.5	65.529	77.179	55.336	50.967	50.967
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-L360-835-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  
PHOTOMETRIC FILENAME : GS-4-L360-835-HA-MD-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-L360-835-HA-MD-DIM-UNV\_.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	5490.29	N.A.	16.50
0-30	11623.12	N.A.	35.00
0-40	18584.62	N.A.	56.00
0-60	28596.5	N.A.	86.20
0-80	32722.52	N.A.	98.60
0-90	33176.7	N.A.	100.00
10-90	31758.66	N.A.	95.70
20-40	13094.33	N.A.	39.50
20-50	19011.17	N.A.	57.30
40-70	12608.98	N.A.	38.00
60-80	4126.02	N.A.	12.40
70-80	1528.91	N.A.	4.60
80-90	454.19	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	33176.7	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	1418.04
10-20	4072.25
20-30	6132.83
30-40	6961.51
40-50	5916.84
50-60	4095.04
60-70	2597.11
70-80	1528.91
80-90	454.19
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-L360-835-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-L360-835-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	22.2	23.7	22.6	24.0	24.4	21.0	22.5	21.3	22.8	23.1
	3H	23.7	25.0	24.0	25.3	25.7	22.5	23.9	22.9	24.2	24.6
	4H	24.3	25.6	24.7	25.9	26.3	23.2	24.5	23.6	24.9	25.2
	6H	24.9	26.0	25.3	26.4	26.8	23.8	25.0	24.2	25.3	25.7
	8H	25.0	26.2	25.5	26.5	26.9	24.0	25.1	24.4	25.5	25.9
	12H	25.2	26.2	25.6	26.6	27.1	24.1	25.2	24.6	25.6	26.0

UGR Viewed Endwise

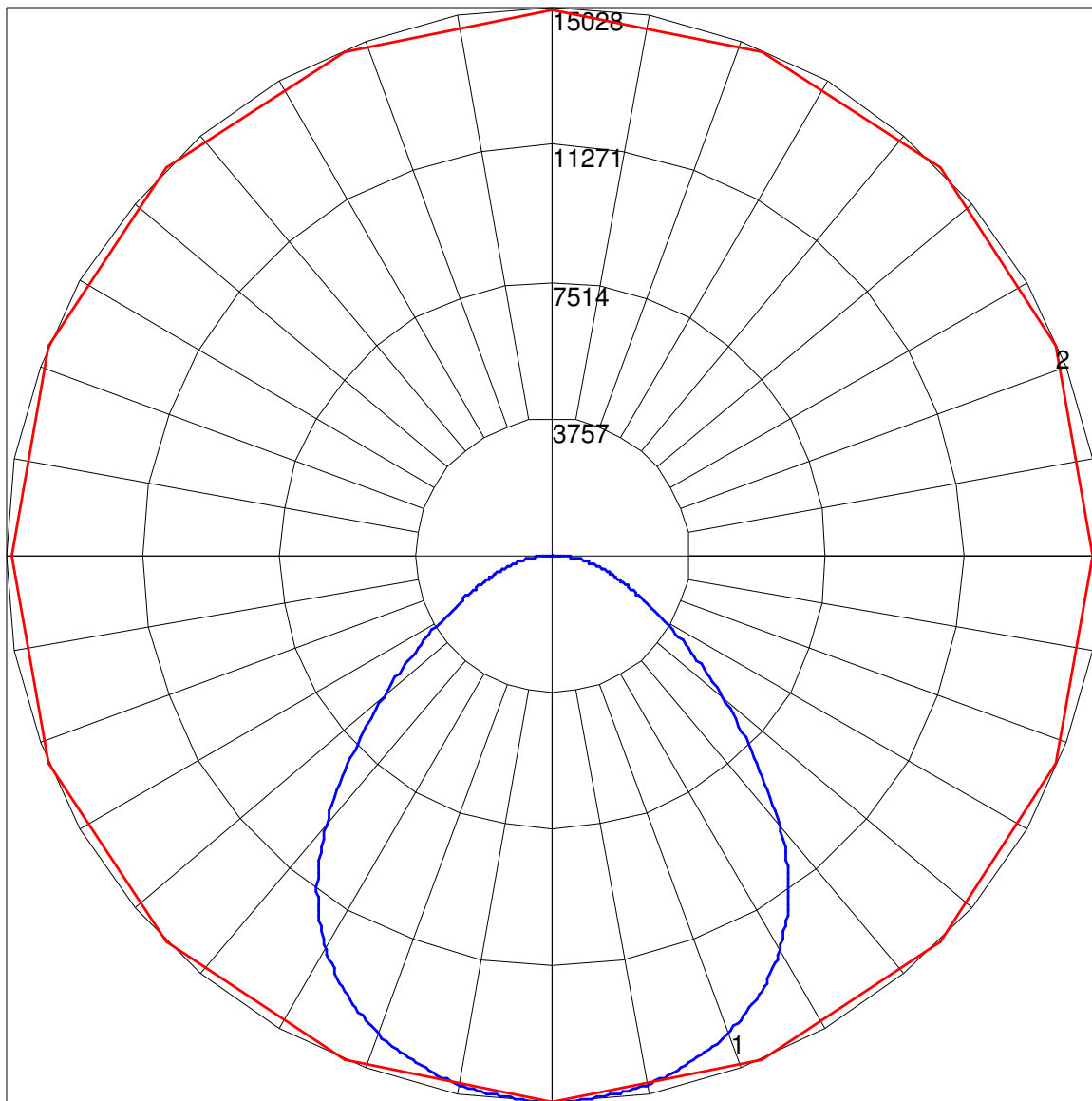
4H	2H	22.6	23.8	23.0	24.2	24.6	21.5	22.8	21.9	23.1	23.5
	3H	24.3	25.3	24.7	25.7	26.1	23.3	24.4	23.7	24.8	25.2
	4H	25.1	26.0	25.5	26.4	26.8	24.2	25.1	24.6	25.5	26.0
	6H	25.7	26.6	26.2	27.0	27.5	24.9	25.7	25.3	26.1	26.6
	8H	26.0	26.8	26.5	27.2	27.7	25.1	25.9	25.6	26.3	26.8
	12H	26.2	26.9	26.7	27.4	27.8	25.3	25.9	25.7	26.4	26.9

8H	4H	25.2	26.0	25.7	26.5	26.9	24.5	25.2	24.9	25.7	26.1
	6H	26.1	26.7	26.6	27.2	27.7	25.3	25.9	25.8	26.4	26.9
	8H	26.4	27.0	26.9	27.5	28.0	25.6	26.2	26.1	26.7	27.2
	12H	26.7	27.2	27.2	27.7	28.2	25.8	26.3	26.3	26.8	27.4

12H	4H	25.3	26.0	25.8	26.4	26.9	24.5	25.2	25.0	25.7	26.1
	6H	26.1	26.7	26.6	27.1	27.7	25.3	25.9	25.9	26.4	26.9
	8H	26.5	27.0	27.0	27.5	28.0	25.7	26.2	26.2	26.7	27.3

Maximum UGR = 28.2

POLAR GRAPH



Maximum Candela = 15028.057 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.)