



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : GH-2-L360-840-FA-DIM-UNV\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] GEN FROM 13326828.02  
 [TESTLAB] UL Verification Services Inc.  
 [ISSUEDATE] 06-MAY-2020  
 [MANUFAC] WILLIAMS INDOOR  
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.  
 [LUMCAT] GH-2-L360-840-FA-DIM-UNV  
 [LUMINAIRE] White steel housing, frosted lens enclosure  
 [LAMP] 504 white LEDs  
 [\_SEARCH\_SOURCETYPE] LED  
 [\_SEARCH\_APPLICATION] Indoor, Commercial, Industrial, Manufacturing, High Bay  
 [\_SEARCH\_MOUNTING] Pendant, Suspended

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	35765
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	131
Total Luminaire Watts	272.6
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.32
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	1.88 ft
Luminous Width (90-270)	1.88 ft
Luminous Height	0.27 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	25634	28599	33156
55	21378	25901	31771
65	16771	22414	27721
75	11815	16869	18502
85	5435	8095	11282

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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	12147.777	12147.777	12147.777	12147.777	12147.777
0.5	12147.777	12136.240	12147.777	12159.313	12147.777
1.0	12147.777	12136.240	12147.777	12159.313	12147.777
1.5	12136.240	12124.704	12147.777	12159.313	12147.777
2.0	12136.240	12136.240	12147.777	12147.777	12136.240
2.5	12124.704	12124.704	12147.777	12147.777	12136.240
3.0	12113.168	12113.168	12136.240	12147.777	12136.240
3.5	12113.168	12113.168	12124.704	12147.777	12136.240
4.0	12101.631	12101.631	12124.704	12136.240	12124.704
4.5	12090.095	12090.095	12124.704	12124.704	12124.704
5.0	12078.559	12078.559	12101.631	12124.704	12113.168
5.5	12067.022	12067.022	12101.631	12113.168	12113.168
6.0	12043.950	12055.486	12090.095	12101.631	12090.095
6.5	12032.413	12032.413	12078.559	12101.631	12090.095
7.0	12009.341	12020.877	12067.022	12090.095	12078.559
7.5	11997.804	11997.804	12043.950	12078.559	12067.022
8.0	11974.732	11986.268	12032.413	12067.022	12055.486
8.5	11951.659	11963.195	12020.877	12055.486	12032.413
9.0	11928.586	11940.123	11997.804	12032.413	12032.413
9.5	11893.977	11917.050	11974.732	12020.877	12009.341
10.0	11870.904	11893.977	11951.659	11997.804	11997.804
10.5	11847.832	11859.368	11928.586	11974.732	11986.268
11.0	11824.759	11836.295	11905.513	11963.195	11963.195
11.5	11790.150	11801.686	11882.441	11940.123	11940.123
12.0	11744.005	11778.614	11859.368	11917.050	11928.586
12.5	11720.932	11744.005	11836.295	11905.513	11905.513
13.0	11686.323	11709.396	11801.686	11882.441	11882.441
13.5	11651.714	11674.786	11778.614	11859.368	11859.368
14.0	11617.105	11640.177	11744.005	11836.295	11847.832
14.5	11570.959	11605.568	11720.932	11813.223	11824.759
15.0	11536.350	11570.959	11686.323	11778.614	11801.686
15.5	11493.666	11531.736	11651.714	11755.541	11778.614
16.0	11456.749	11493.666	11617.105	11732.468	11755.541
16.5	11408.297	11457.903	11582.496	11709.396	11720.932
17.0	11362.151	11414.065	11547.887	11674.786	11697.859
17.5	11314.852	11375.995	11515.585	11640.177	11674.786
18.0	11267.553	11331.003	11475.208	11617.105	11640.177
18.5	11213.332	11284.858	11438.291	11582.496	11617.105
19.0	11166.033	11235.252	11399.068	11547.887	11582.496
19.5	11110.659	11186.799	11362.151	11515.585	11547.887
20.0	11056.438	11137.193	11319.467	11479.822	11520.199
20.5	10994.142	11086.433	11280.243	11447.520	11489.051
21.0	10936.460	11034.519	11237.559	11407.143	11452.135
21.5	10869.549	10974.530	11194.874	11370.227	11425.601
22.0	10807.253	10919.156	11148.729	11339.079	11386.378
22.5	10746.110	10859.166	11106.044	11296.394	11352.922
23.0	10687.275	10800.331	11062.206	11261.785	11317.160
23.5	10614.596	10740.342	11016.061	11217.947	11275.629
24.0	10555.760	10678.046	10964.147	11179.877	11249.095
24.5	10483.081	10616.903	10908.773	11139.500	11209.872
25.0	10419.632	10549.992	10860.320	11091.047	11171.802
25.5	10351.567	10488.850	10804.946	11055.284	11129.117
26.0	10283.503	10423.092	10744.957	11009.139	11095.662
26.5	10217.745	10359.643	10689.582	10961.840	11054.131

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : GH-2-L360-840-FA-DIM-UNV\_.IES**

**CANDELA TABULATION - (Cont.)**

27.0	10142.75910291.57810633.05410916.84811011.446
27.5	10074.69510224.66710574.21910875.31710966.455
28.0	9996.247 10155.44910518.84410824.55710921.463
28.5	9917.800 10086.23110456.54810777.25810876.471
29.0	9840.507 10011.24510393.09810723.03810833.787
29.5	9759.752 9939.719 10331.95510678.04610787.641
30.0	9682.459 9863.579 10270.81310626.13210734.574
30.5	9599.397 9788.593 10205.05510573.06510683.814
31.0	9518.643 9714.761 10143.91310516.53710637.669
31.5	9434.427 9635.160 10079.30910462.31610576.526
32.0	9344.444 9557.866 10007.78410410.40210528.073
32.5	9257.921 9471.344 9944.334 10349.26010469.238
33.0	9170.245 9391.743 9877.423 10291.57810421.939
33.5	9074.493 9305.220 9803.590 10231.58910352.721
34.0	8984.510 9222.158 9735.526 10170.44610299.654
34.5	8884.143 9135.636 9661.693 10104.68910238.511
35.0	8788.392 9045.652 9589.014 10038.93210172.754
35.5	8700.715 8959.130 9505.953 9975.482 10112.765
36.0	8599.195 8869.146 9434.427 9905.110 10045.854
36.5	8501.136 8776.855 9357.134 9835.892 9981.250
37.0	8403.078 8683.411 9277.533 9768.981 9909.725
37.5	8302.711 8591.120 9196.778 9699.763 9850.889
38.0	8202.345 8497.676 9118.331 9630.545 9782.825
38.5	8101.979 8404.231 9032.962 9556.713 9708.992
39.0	8001.613 8309.633 8955.669 9487.494 9638.621
39.5	7900.093 8215.035 8874.914 9417.123 9567.095
40.0	7798.573 8119.283 8791.853 9340.983 9497.877
40.5	7695.899 8024.685 8707.637 9269.457 9432.120
41.0	7593.226 7928.934 8624.575 9197.932 9360.595
41.5	7492.859 7834.335 8541.514 9120.639 9283.301
42.0	7390.186 7739.737 8459.606 9050.267 9214.083
42.5	7288.666 7645.139 8377.698 8969.512 9142.558
43.0	7185.993 7550.541 8294.636 8894.526 9064.110
43.5	7084.473 7455.943 8212.728 8817.232 8994.892
44.0	6982.953 7362.499 8128.512 8745.707 8921.060
44.5	6882.587 7269.054 8046.604 8666.106 8848.381
45.0	6782.220 7175.610 7962.389 8589.966 8772.241
45.5	6683.008 7082.165 7880.481 8512.673 8700.715
46.0	6583.795 6988.721 7798.573 8436.533 8626.883
46.5	6483.429 6896.430 7716.665 8360.393 8553.050
47.0	6385.370 6804.139 7633.603 8284.253 8479.217
47.5	6287.311 6711.849 7551.695 8208.113 8404.231
48.0	6189.252 6619.558 7468.633 8130.820 8330.399
48.5	6092.347 6527.267 7384.418 8053.526 8256.566
49.0	5994.288 6436.130 7300.202 7975.079 8181.580
49.5	5896.229 6343.839 7217.141 7896.632 8104.286
50.0	5799.323 6252.702 7134.079 7818.185 8024.685
50.5	5702.418 6160.411 7049.864 7737.430 7946.238
51.0	5605.513 6069.274 6965.648 7656.676 7865.484
51.5	5508.607 5978.137 6881.433 7575.921 7784.729
52.0	5410.548 5887.000 6794.910 7492.859 7703.975
52.5	5314.797 5795.862 6708.388 7409.798 7620.913
53.0	5219.045 5705.879 6623.019 7325.582 7537.851
53.5	5123.293 5614.742 6536.496 7240.213 7453.636
54.0	5027.541 5524.758 6448.820 7153.691 7367.113
54.5	4930.636 5434.775 6362.297 7064.861 7278.283

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : GH-2-L360-840-FA-DIM-UNV\_.IES**

**CANDELA TABULATION - (Cont.)**

55.0	4836.038	5344.791	6274.621	6977.185	7187.146
55.5	4739.133	5253.654	6185.791	6886.047	7094.855
56.0	4644.535	5163.670	6096.961	6793.757	7001.411
56.5	4551.090	5073.687	6008.131	6701.466	6909.120
57.0	4456.492	4983.703	5918.148	6606.868	6813.368
57.5	4361.894	4893.720	5827.011	6512.270	6714.156
58.0	4269.603	4803.736	5737.027	6415.364	6611.482
58.5	4176.159	4713.753	5645.890	6317.305	6507.655
59.0	4085.022	4624.923	5555.906	6218.093	6402.674
59.5	3992.731	4534.939	5464.769	6118.880	6297.694
60.0	3901.594	4447.263	5373.632	6017.360	6190.406
60.5	3811.610	4358.433	5282.495	5914.687	6080.810
61.0	3721.627	4270.757	5190.204	5810.860	5970.061
61.5	3633.950	4184.234	5097.913	5708.186	5855.851
62.0	3546.274	4097.712	5005.622	5602.052	5741.642
62.5	3459.751	4012.343	4914.485	5495.917	5625.124
63.0	3372.075	3926.974	4824.502	5387.476	5505.146
63.5	3286.706	3843.912	4732.211	5277.880	5386.322
64.0	3201.337	3760.850	4641.074	5167.131	5266.344
64.5	3119.429	3677.788	4547.629	5055.229	5144.059
65.0	3035.214	3594.727	4454.185	4943.326	5017.159
65.5	2950.998	3512.819	4361.894	4827.963	4887.952
66.0	2869.090	3429.757	4268.450	4710.292	4756.437
66.5	2788.336	3349.002	4175.005	4591.467	4623.769
67.0	2707.581	3268.248	4080.407	4470.336	4489.948
67.5	2627.981	3188.647	3985.809	4348.050	4357.279
68.0	2549.533	3107.893	3890.057	4223.458	4223.458
68.5	2471.086	3027.138	3795.459	4097.712	4087.329
69.0	2393.793	2947.537	3700.861	3973.119	3951.200
69.5	2317.653	2869.090	3603.956	3846.219	3813.917
70.0	2242.666	2789.489	3508.204	3719.319	3676.635
70.5	2168.834	2711.042	3411.299	3591.266	3538.199
71.0	2095.001	2632.595	3313.240	3463.212	3403.223
71.5	2021.169	2555.302	3215.181	3336.312	3270.555
72.0	1949.643	2479.162	3115.968	3209.413	3140.195
72.5	1879.271	2401.868	3016.756	3085.974	3012.141
73.0	1808.900	2325.728	2917.543	2963.688	2885.241
73.5	1740.835	2249.588	2817.177	2842.557	2761.802
74.0	1671.617	2174.602	2716.810	2722.579	2639.517
74.5	1605.860	2099.616	2616.444	2606.062	2521.846
75.0	1538.949	2024.629	2516.078	2491.852	2409.944
75.5	1473.192	1951.950	2415.712	2382.256	2299.195
76.0	1408.588	1878.118	2316.499	2272.661	2194.214
76.5	1345.138	1805.439	2217.287	2166.527	2093.848
77.0	1282.842	1732.760	2119.228	2063.853	1996.942
77.5	1220.546	1660.081	2022.322	1964.640	1901.191
78.0	1159.403	1588.555	1926.570	1867.735	1810.053
78.5	1100.568	1517.030	1828.512	1774.291	1722.377
79.0	1040.579	1446.658	1735.067	1685.461	1639.315
79.5	982.897	1376.287	1643.930	1597.785	1559.715
80.0	926.369	1305.915	1552.793	1514.723	1482.421
80.5	870.994	1236.697	1465.116	1433.968	1408.588
81.0	815.620	1166.325	1378.594	1355.521	1337.063
81.5	761.399	1097.107	1295.532	1280.535	1267.845
82.0	708.332	1029.042	1213.624	1209.010	1200.934
82.5	656.418	959.824	1132.870	1138.638	1137.484

**IES INDOOR REPORT**  
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**CANDELA TABULATION - (Cont.)**

83.0	605.658	891.760	1055.576	1072.881	1076.341
83.5	556.052	823.695	979.436	1009.431	1018.660
84.0	507.599	756.785	906.757	947.134	960.978
84.5	459.147	691.027	836.385	888.299	905.603
85.0	410.694	625.270	769.475	831.771	852.536
85.5	363.395	560.667	703.717	776.396	800.623
86.0	317.250	497.217	642.575	723.329	749.863
86.5	269.951	434.920	582.586	671.416	701.410
87.0	223.805	374.931	524.904	621.809	655.265
87.5	176.506	316.096	470.683	575.664	610.273
88.0	130.361	259.568	421.077	531.826	567.588
88.5	87.676	208.808	374.931	490.295	527.211
89.0	53.067	166.123	334.554	452.225	489.141
89.5	26.534	137.283	306.867	424.538	460.300
90.0	12.690	121.132	290.716	408.387	444.149
90.5	66.911	182.274	389.929	550.284	609.119
91.0	53.067	170.738	377.239	536.440	594.122
91.5	44.992	163.816	366.856	522.597	577.971
92.0	43.838	158.048	356.473	508.753	561.820
92.5	44.992	152.280	347.244	496.063	546.823
93.0	46.145	148.819	338.015	483.373	532.979
93.5	48.453	144.204	328.786	471.837	519.136
94.0	50.760	140.743	319.557	461.454	506.446
94.5	53.067	137.283	311.481	451.071	496.063
95.0	55.374	133.822	302.252	439.535	485.680
95.5	57.682	131.514	294.177	427.999	472.990
96.0	59.989	129.207	287.255	415.309	459.147
96.5	62.296	126.900	280.333	402.619	444.149
97.0	64.604	125.746	273.412	389.929	430.306
97.5	66.911	124.593	268.797	378.392	416.462
98.0	69.218	123.439	265.336	369.163	402.619
98.5	70.372	123.439	261.875	359.934	391.082
99.0	72.679	122.285	258.414	354.166	380.700
99.5	73.833	122.285	254.953	348.398	373.778
100.0	74.986	121.132	251.492	343.783	368.010
100.5	74.986	121.132	248.032	339.169	363.395
101.0	74.986	119.978	244.571	335.708	358.780
101.5	74.986	119.978	242.263	333.401	354.166
102.0	76.140	119.978	238.802	329.940	350.705
102.5	76.140	119.978	236.495	326.479	348.398
103.0	76.140	119.978	234.188	323.018	346.091
103.5	76.140	121.132	230.727	318.403	342.630
104.0	76.140	121.132	228.420	314.942	339.169
104.5	76.140	122.285	226.112	311.481	335.708
105.0	76.140	123.439	224.959	308.021	332.247
105.5	76.140	123.439	223.805	305.713	328.786
106.0	76.140	124.593	222.652	302.252	325.325
106.5	76.140	125.746	221.498	298.791	323.018
107.0	76.140	126.900	221.498	296.484	319.557
107.5	76.140	128.053	220.344	293.023	316.096
108.0	74.986	129.207	219.191	290.716	313.789
108.5	74.986	130.361	218.037	288.409	311.481
109.0	74.986	131.514	216.883	286.101	308.021
109.5	74.986	132.668	215.730	283.794	305.713
110.0	74.986	133.822	214.576	282.641	302.252
110.5	74.986	136.129	213.422	280.333	299.945

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : GH-2-L360-840-FA-DIM-UNV\_.IES**

**CANDELA TABULATION - (Cont.)**

111.0	74.986	137.283	212.269	279.180	297.638
111.5	74.986	138.436	212.269	279.180	296.484
112.0	74.986	140.743	211.115	278.026	294.177
112.5	74.986	141.897	209.962	276.872	293.023
113.0	74.986	143.051	208.808	275.719	291.870
113.5	74.986	145.358	207.654	274.565	290.716
114.0	74.986	146.512	206.501	272.258	289.562
114.5	74.986	148.819	206.501	271.104	288.409
115.0	74.986	151.126	205.347	269.951	288.409
115.5	73.833	153.433	205.347	268.797	287.255
116.0	73.833	155.741	205.347	266.490	284.948
116.5	73.833	159.202	205.347	265.336	283.794
117.0	73.833	162.663	205.347	264.182	282.641
117.5	73.833	164.970	205.347	263.029	280.333
118.0	72.679	168.431	205.347	261.875	279.180
118.5	72.679	171.892	205.347	260.722	276.872
119.0	73.833	175.353	205.347	259.568	275.719
119.5	73.833	178.813	205.347	258.414	274.565
120.0	73.833	181.121	205.347	257.261	272.258
120.5	74.986	184.582	205.347	256.107	271.104
121.0	74.986	188.043	205.347	254.953	269.951
121.5	76.140	190.350	206.501	254.953	268.797
122.0	76.140	193.811	207.654	253.800	268.797
122.5	77.294	196.118	208.808	253.800	267.643
123.0	78.447	198.425	208.808	252.646	266.490
123.5	78.447	200.732	209.962	251.492	265.336
124.0	79.601	203.040	211.115	251.492	264.182
124.5	80.754	204.193	212.269	250.339	264.182
125.0	81.908	205.347	213.422	249.185	263.029
125.5	81.908	206.501	214.576	248.032	263.029
126.0	83.062	207.654	216.883	246.878	263.029
126.5	84.215	208.808	218.037	245.724	261.875
127.0	85.369	208.808	219.191	244.571	261.875
127.5	85.369	208.808	221.498	243.417	260.722
128.0	86.523	208.808	222.652	243.417	259.568
128.5	87.676	208.808	223.805	244.571	258.414
129.0	87.676	208.808	224.959	244.571	256.107
129.5	88.830	207.654	227.266	244.571	254.953
130.0	89.984	207.654	228.420	245.724	254.953
130.5	89.984	207.654	230.727	245.724	254.953
131.0	91.137	206.501	231.881	246.878	254.953
131.5	92.291	206.501	234.188	248.032	254.953
132.0	92.291	205.347	236.495	248.032	256.107
132.5	93.444	204.193	238.802	249.185	257.261
133.0	93.444	204.193	242.263	250.339	257.261
133.5	94.598	203.040	244.571	250.339	258.414
134.0	94.598	201.886	246.878	251.492	259.568
134.5	94.598	200.732	249.185	251.492	259.568
135.0	95.752	199.579	252.646	252.646	260.722
135.5	95.752	198.425	254.953	253.800	261.875
136.0	94.598	197.272	257.261	253.800	261.875
136.5	94.598	196.118	259.568	253.800	263.029
137.0	94.598	193.811	261.875	253.800	263.029
137.5	93.444	192.657	263.029	253.800	264.182
138.0	93.444	191.503	265.336	253.800	264.182
138.5	92.291	189.196	267.643	253.800	265.336

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : GH-2-L360-840-FA-DIM-UNV\_.IES**

**CANDELA TABULATION - (Cont.)**

139.0	91.137	188.043	268.797	254.953	264.182
139.5	91.137	186.889	271.104	254.953	264.182
140.0	89.984	184.582	272.258	257.261	263.029
140.5	89.984	183.428	273.412	258.414	263.029
141.0	89.984	182.274	273.412	260.722	263.029
141.5	89.984	179.967	274.565	263.029	263.029
142.0	88.830	178.813	274.565	265.336	263.029
142.5	88.830	177.660	273.412	267.643	264.182
143.0	88.830	175.353	273.412	269.951	265.336
143.5	88.830	174.199	272.258	272.258	266.490
144.0	88.830	173.045	269.951	273.412	267.643
144.5	87.676	170.738	268.797	275.719	269.951
145.0	87.676	169.584	266.490	278.026	271.104
145.5	87.676	168.431	264.182	280.333	272.258
146.0	86.523	167.277	261.875	281.487	273.412
146.5	86.523	166.123	259.568	283.794	274.565
147.0	86.523	163.816	256.107	284.948	275.719
147.5	86.523	162.663	253.800	286.101	276.872
148.0	86.523	160.355	251.492	287.255	279.180
148.5	86.523	159.202	248.032	287.255	281.487
149.0	86.523	156.894	245.724	287.255	283.794
149.5	86.523	155.741	243.417	286.101	284.948
150.0	86.523	153.433	239.956	286.101	286.101
150.5	86.523	152.280	237.649	283.794	286.101
151.0	86.523	149.973	234.188	281.487	286.101
151.5	86.523	148.819	231.881	278.026	286.101
152.0	86.523	146.512	228.420	274.565	284.948
152.5	86.523	145.358	224.959	271.104	282.641
153.0	86.523	143.051	221.498	267.643	279.180
153.5	86.523	141.897	218.037	264.182	276.872
154.0	86.523	140.743	214.576	260.722	273.412
154.5	87.676	139.590	211.115	257.261	269.951
155.0	87.676	138.436	207.654	252.646	265.336
155.5	87.676	136.129	205.347	249.185	261.875
156.0	87.676	134.975	201.886	245.724	257.261
156.5	87.676	133.822	198.425	241.110	253.800
157.0	87.676	131.514	194.964	237.649	249.185
157.5	87.676	130.361	191.503	233.034	245.724
158.0	87.676	128.053	189.196	228.420	241.110
158.5	87.676	126.900	185.735	223.805	236.495
159.0	86.523	124.593	182.274	219.191	231.881
159.5	86.523	122.285	178.813	214.576	227.266
160.0	86.523	121.132	175.353	209.962	222.652
160.5	86.523	118.824	173.045	205.347	216.883
161.0	87.676	117.671	169.584	200.732	212.269
161.5	87.676	115.364	166.123	196.118	207.654
162.0	87.676	114.210	161.509	191.503	203.040
162.5	87.676	113.056	158.048	188.043	197.272
163.0	87.676	110.749	154.587	183.428	192.657
163.5	87.676	109.595	151.126	178.813	189.196
164.0	87.676	108.442	147.665	174.199	184.582
164.5	87.676	107.288	145.358	170.738	178.813
165.0	87.676	106.134	141.897	166.123	174.199
165.5	87.676	104.981	139.590	161.509	169.584
166.0	87.676	103.827	137.283	156.894	164.970
166.5	87.676	102.674	133.822	152.280	160.355

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : GH-2-L360-840-FA-DIM-UNV\_.IES**

**CANDELA TABULATION - (Cont.)**

167.0	87.676	102.674	131.514	146.512	154.587
167.5	87.676	101.520	126.900	141.897	149.973
168.0	87.676	100.366	123.439	138.436	144.204
168.5	87.676	100.366	119.978	134.975	139.590
169.0	86.523	99.213	116.517	130.361	134.975
169.5	86.523	99.213	114.210	126.900	130.361
170.0	86.523	98.059	110.749	123.439	126.900
170.5	86.523	98.059	107.288	118.824	122.285
171.0	86.523	96.905	104.981	114.210	116.517
171.5	86.523	95.752	102.674	109.595	111.903
172.0	86.523	94.598	100.366	106.134	107.288
172.5	86.523	93.444	98.059	102.674	102.674
173.0	86.523	92.291	96.905	99.213	99.213
173.5	86.523	91.137	95.752	96.905	95.752
174.0	86.523	89.984	94.598	93.444	92.291
174.5	86.523	89.984	93.444	92.291	88.830
175.0	86.523	88.830	92.291	89.984	86.523
175.5	86.523	87.676	91.137	88.830	84.215
176.0	87.676	87.676	89.984	87.676	83.062
176.5	87.676	86.523	88.830	85.369	80.754
177.0	87.676	86.523	87.676	84.215	80.754
177.5	88.830	86.523	86.523	81.908	79.601
178.0	88.830	86.523	84.215	80.754	78.447
178.5	88.830	85.369	84.215	78.447	77.294
179.0	89.984	85.369	83.062	77.294	76.140
179.5	89.984	85.369	81.908	77.294	74.986
180.0	81.908	81.908	81.908	81.908	81.908



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : GH-2-L360-840-FA-DIM-UNV\_.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	4445.73	N.A.	12.40
0-30	9433.33	N.A.	26.40
0-40	15394.01	N.A.	43.00
0-60	26969.87	N.A.	75.40
0-80	33570.45	N.A.	93.90
0-90	34383.55	N.A.	96.10
10-90	33233.23	N.A.	92.90
20-40	10948.28	N.A.	30.60
20-50	17030.05	N.A.	47.60
40-70	15777.31	N.A.	44.10
60-80	6600.58	N.A.	18.50
70-80	2399.13	N.A.	6.70
80-90	813.10	N.A.	2.30
90-110	544.07	N.A.	1.50
90-120	745.57	N.A.	2.10
90-130	933.52	N.A.	2.60
90-150	1243.06	N.A.	3.50
90-180	1381.91	N.A.	3.90
110-180	837.84	N.A.	2.30
0-180	35765.46	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	1150.32
10-20	3295.41
20-30	4987.6
30-40	5960.68
40-50	6081.77
50-60	5494.09
60-70	4201.45
70-80	2399.13
80-90	813.10
90-100	314.64
100-110	229.43
110-120	201.50
120-130	187.95
130-140	169.91
140-150	139.62
150-160	90.12
160-170	39.57
170-180	9.16

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : GH-2-L360-840-FA-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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	98	98	98	96
1	108	103	99	95	105	100	96	93	95	92	89	91	88	86	86	84	82	80
2	98	90	83	77	95	87	81	76	83	78	73	79	75	71	76	72	69	67
3	89	79	70	64	86	77	69	63	73	67	61	70	64	60	67	62	58	56
4	82	70	61	54	79	68	60	54	65	58	52	62	56	51	60	54	50	48
5	75	62	53	47	73	61	52	46	58	51	45	56	49	44	54	48	44	41
6	69	56	47	41	67	55	46	40	53	45	40	51	44	39	49	43	38	36
7	64	51	42	36	62	50	41	36	48	40	35	46	39	35	44	38	34	32
8	60	46	38	32	58	45	37	32	44	36	31	42	36	31	41	35	30	28
9	56	42	34	29	54	42	34	29	40	33	28	39	32	28	38	32	27	26
10	52	39	31	26	51	38	31	26	37	30	26	36	30	25	35	29	25	23

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : GH-2-L360-840-FA-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	21.9	23.4	22.3	23.8	24.2	24.1	25.6	24.5	26.0	26.4
	3H	23.3	24.7	23.8	25.1	25.6	25.7	27.1	26.2	27.5	28.0
	4H	23.8	25.1	24.3	25.6	26.0	26.2	27.5	26.7	28.0	28.4
	6H	24.1	25.3	24.6	25.8	26.3	26.6	27.8	27.0	28.2	28.7
	8H	24.2	25.4	24.7	25.8	26.3	26.7	27.8	27.1	28.3	28.8
	12H	24.2	25.4	24.7	25.8	26.3	26.7	27.8	27.2	28.3	28.8

UGR Viewed Endwise

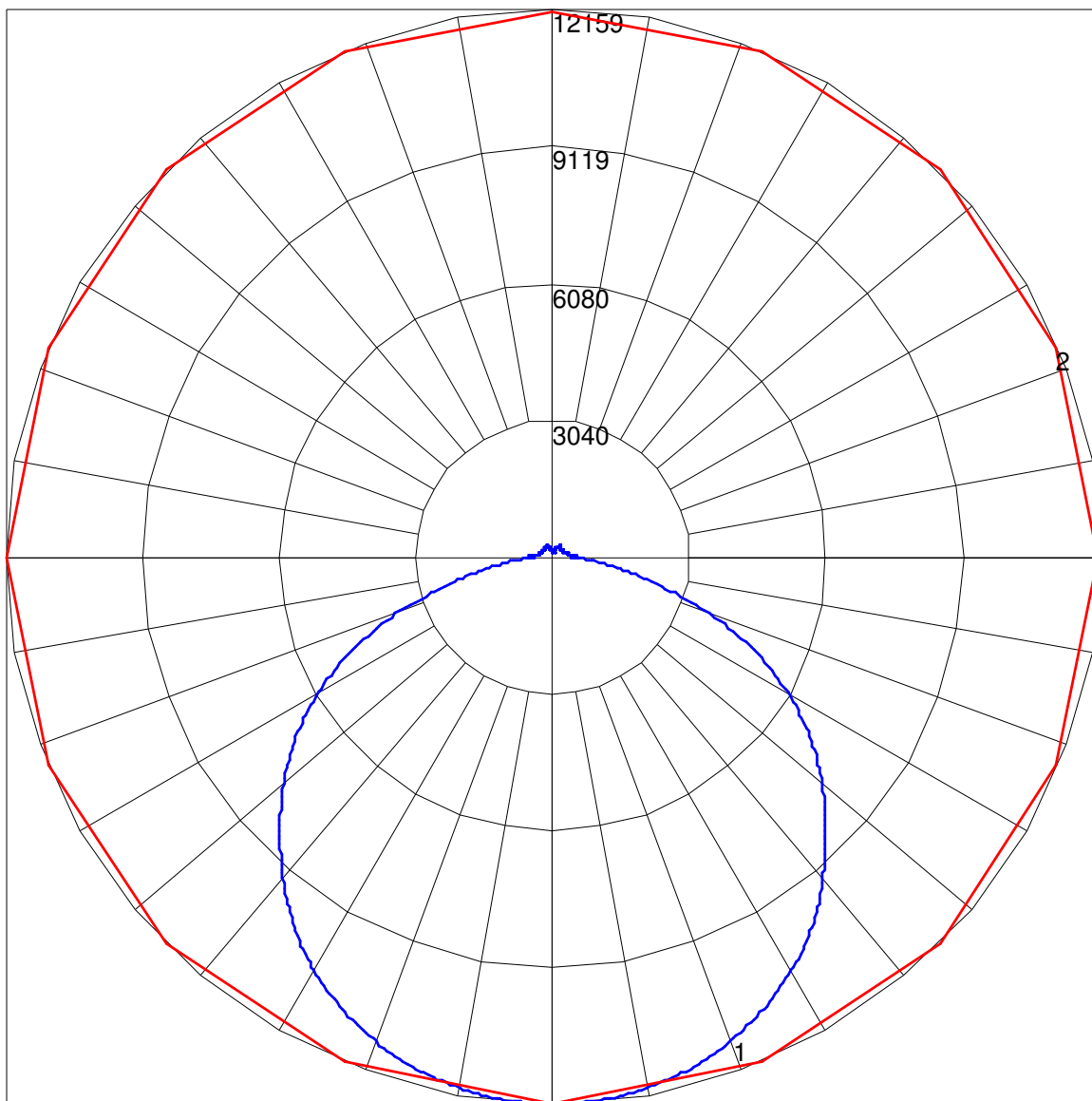
4H	2H	22.8	24.1	23.3	24.5	25.0	24.5	25.8	25.0	26.2	26.7
	3H	24.5	25.6	24.9	26.0	26.5	26.4	27.5	26.9	28.0	28.5
	4H	25.1	26.1	25.6	26.5	27.1	27.0	28.0	27.5	28.5	29.0
	6H	25.5	26.4	26.0	26.9	27.4	27.4	28.3	28.0	28.8	29.4
	8H	25.6	26.4	26.1	26.9	27.5	27.6	28.4	28.1	28.9	29.5
	12H	25.7	26.4	26.2	26.9	27.5	27.7	28.4	28.2	29.0	29.5

8H	4H	25.5	26.3	26.0	26.8	27.4	27.2	28.0	27.7	28.5	29.1
	6H	26.0	26.7	26.6	27.3	27.8	27.7	28.4	28.3	29.0	29.5
	8H	26.2	26.8	26.8	27.4	28.0	27.9	28.5	28.5	29.1	29.7
	12H	26.3	26.9	26.9	27.4	28.1	28.1	28.7	28.7	29.2	29.9

12H	4H	25.5	26.3	26.1	26.8	27.4	27.2	27.9	27.7	28.5	29.0
	6H	26.1	26.7	26.7	27.3	27.9	27.8	28.4	28.3	28.9	29.5
	8H	26.3	26.9	26.9	27.4	28.1	28.0	28.5	28.6	29.1	29.8

Maximum UGR = 29.9

POLAR GRAPH



Maximum Candela = 12159.313 Located At Horizontal Angle = 67.5, Vertical Angle = .5  
# 1 - Vertical Plane Through Horizontal Angles (67.5 - 247.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (.5) (Through Max. Cd.)