



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : GS-2-L120-840-HA-CA-DIM-UNV\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] 14617179.01  
[TESTLAB] UL Verification Services Inc.  
[ISSUEDATE] 2023-03-13  
[TESTDATE] 1/6/2023  
[MANUFAC] H E Williams Inc  
[LUMCAT] GS-2-L120-840-HA-CA-DIM-UNV  
[LUMINAIRE] White aluminum housing, prismatic lense enclosure  
[LAMP] 448 White LEDs  
[BALLAST] ULT D21CC80UNVPW-C  
[OTHER] 24.9 C, 120.004 V, 1.44538 A, 173.17 W, 0.998374 PF, 59.9997 H  
[OTHER] This test was performed using the calibrated photodetector met  
[MORE] hod of absolute photometry.  
[FILEGENINFO] 1.10000

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	12210
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	144
Total Luminaire Watts	85
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)	1.67 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	24361	25115	25570
55	23317	24256	17447
65	21150	14793	4795
75	17314	4760	4821
85	7591	6525	6076

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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	4628.539	4628.539	4628.539	4628.539	4628.539
0.5	4571.361	4631.447	4641.622	4634.354	4643.561
1.0	4572.814	4631.931	4642.107	4634.354	4643.076
1.5	4574.753	4631.447	4642.591	4632.900	4641.622
2.0	4574.268	4632.416	4641.622	4633.385	4642.107
2.5	4573.299	4631.447	4642.107	4632.416	4640.653
3.0	4572.814	4629.508	4641.138	4632.900	4641.622
3.5	4571.361	4626.601	4640.653	4632.900	4641.622
4.0	4567.969	4625.147	4639.200	4634.838	4642.591
4.5	4563.608	4622.240	4637.261	4635.808	4643.561
5.0	4557.793	4618.848	4635.808	4634.838	4642.107
5.5	4553.432	4615.941	4633.869	4633.385	4640.169
6.0	4550.040	4613.033	4631.447	4629.993	4636.292
6.5	4545.194	4608.672	4629.024	4626.601	4630.962
7.0	4538.895	4603.826	4624.178	4621.755	4624.663
7.5	4533.565	4599.465	4619.817	4615.456	4617.879
8.0	4528.719	4594.135	4613.518	4608.672	4611.579
8.5	4526.297	4588.320	4607.703	4601.888	4606.734
9.0	4522.420	4582.021	4601.404	4595.104	4600.919
9.5	4517.090	4577.176	4596.073	4590.259	4596.558
10.0	4511.275	4572.814	4590.259	4584.444	4590.743
10.5	4505.945	4567.969	4583.475	4577.176	4583.959
11.0	4500.130	4563.123	4575.722	4568.938	4576.691
11.5	4495.285	4557.793	4567.969	4561.185	4565.546
12.0	4486.078	4551.009	4561.670	4551.009	4551.009
12.5	4475.902	4544.225	4552.947	4537.441	4539.380
13.0	4465.726	4536.472	4543.741	4523.874	4526.781
13.5	4455.066	4525.812	4534.534	4512.244	4512.729
14.0	4443.436	4515.636	4524.843	4499.161	4499.646
14.5	4427.930	4505.460	4513.213	4486.078	4488.501
15.0	4416.785	4495.285	4502.068	4472.995	4479.779
15.5	4410.486	4484.140	4488.985	4460.396	4471.056
16.0	4401.279	4471.541	4475.902	4449.251	4460.396
16.5	4391.588	4459.911	4460.396	4438.106	4450.705
17.0	4385.289	4447.797	4446.828	4426.961	4439.560
17.5	4375.113	4436.168	4432.291	4414.363	4428.899
18.0	4363.484	4422.600	4416.785	4402.733	4416.301
18.5	4350.885	4409.517	4403.218	4388.681	4399.826
19.0	4335.864	4396.918	4386.258	4374.144	4384.320
19.5	4319.388	4383.835	4370.267	4360.092	4371.721
20.0	4303.882	4370.752	4354.761	4345.070	4358.153
20.5	4288.861	4356.700	4340.709	4330.533	4344.586
21.0	4274.324	4341.678	4326.172	4316.966	4330.049
21.5	4257.364	4326.657	4311.151	4303.398	4314.058
22.0	4240.889	4311.635	4296.129	4288.861	4298.068
22.5	4226.837	4295.645	4280.139	4273.840	4283.531
23.0	4212.785	4279.170	4262.210	4256.395	4266.087
23.5	4198.732	4260.756	4244.766	4240.889	4250.581
24.0	4181.288	4244.281	4225.868	4225.383	4233.621
24.5	4166.267	4227.806	4206.485	4207.939	4217.630
25.0	4149.792	4207.455	4185.649	4191.949	4199.217
25.5	4130.894	4190.495	4167.236	4174.020	4181.773
26.0	4109.088	4173.535	4149.307	4156.091	4162.390
26.5	4085.345	4151.245	4131.863	4137.193	4143.492

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**CANDELA TABULATION - (Cont.)**

27.0	4063.540	4129.440	4112.965	4118.780	4124.594
27.5	4042.219	4106.666	4095.521	4100.366	4106.181
28.0	4021.867	4083.891	4076.623	4082.922	4087.768
28.5	4004.423	4061.117	4056.756	4064.024	4067.901
29.0	3985.040	4038.827	4036.404	4041.734	4048.518
29.5	3965.658	4016.537	4016.052	4021.383	4031.074
30.0	3946.275	3991.824	3994.247	4000.062	4010.722
30.5	3926.893	3969.050	3974.380	3978.257	3992.309
31.0	3906.057	3943.853	3954.513	3957.905	3971.957
31.5	3882.798	3919.140	3933.677	3937.069	3951.606
32.0	3858.570	3896.850	3911.872	3915.748	3930.285
32.5	3833.372	3873.107	3891.035	3896.850	3907.995
33.0	3807.206	3849.848	3872.137	3876.014	3887.643
33.5	3782.009	3825.135	3850.332	3854.693	3869.230
34.0	3756.327	3798.968	3826.589	3832.403	3847.909
34.5	3732.099	3773.287	3802.360	3810.113	3825.619
35.0	3709.809	3746.636	3775.710	3788.308	3801.876
35.5	3688.973	3719.985	3745.182	3765.534	3780.555
36.0	3663.776	3691.396	3720.469	3742.759	3758.265
36.5	3637.609	3662.806	3696.726	3719.016	3734.522
37.0	3607.566	3634.217	3670.559	3695.757	3711.263
37.5	3575.101	3606.113	3643.909	3672.498	3686.550
38.0	3544.089	3578.493	3620.165	3648.270	3660.868
38.5	3512.592	3550.388	3597.391	3623.072	3632.764
39.0	3484.972	3522.283	3570.740	3595.937	3606.597
39.5	3458.806	3492.241	3541.181	3567.348	3580.915
40.0	3431.670	3460.744	3511.623	3540.212	3554.265
40.5	3403.566	3429.247	3483.518	3512.592	3529.067
41.0	3377.399	3397.751	3454.929	3482.549	3503.385
41.5	3345.418	3365.770	3424.402	3454.929	3473.827
42.0	3310.045	3334.273	3393.390	3425.371	3443.784
42.5	3271.765	3302.292	3361.893	3395.813	3414.226
43.0	3234.453	3269.826	3331.850	3366.254	3385.637
43.5	3199.565	3235.423	3300.838	3336.211	3357.532
44.0	3168.553	3202.957	3272.734	3307.138	3331.366
44.5	3142.871	3170.976	3242.691	3280.971	3303.261
45.0	3116.220	3137.056	3212.648	3253.836	3270.796
45.5	3087.146	3104.106	3180.182	3221.370	3241.237
46.0	3052.743	3070.187	3143.840	3185.513	3209.256
46.5	3017.369	3034.814	3105.560	3155.954	3178.729
47.0	2980.058	3000.894	3073.094	3125.427	3149.170
47.5	2946.623	2968.429	3040.628	3093.446	3117.674
48.0	2916.096	2936.932	3006.225	3062.918	3085.208
48.5	2886.053	2908.343	2972.305	3032.875	3046.443
49.0	2854.072	2869.093	2940.324	3001.863	2997.018
49.5	2819.668	2827.421	2908.828	2970.852	2939.840
50.0	2776.542	2792.533	2875.877	2937.417	2871.032
50.5	2737.292	2762.005	2840.504	2901.559	2787.202
51.0	2700.466	2725.663	2805.131	2857.948	2690.774
51.5	2668.485	2690.290	2768.304	2804.647	2598.223
52.0	2637.957	2652.010	2733.416	2742.623	2523.600
52.5	2603.069	2615.183	2698.043	2662.185	2452.854
53.0	2562.850	2575.449	2661.701	2570.118	2346.735
53.5	2521.662	2538.622	2626.812	2474.175	2203.789
54.0	2483.382	2505.187	2589.986	2393.253	2040.492
54.5	2451.401	2468.360	2552.674	2323.476	1905.299

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**CANDELA TABULATION - (Cont.)**

55.0	2419.420	2425.234	2516.817	2236.255	1810.325
55.5	2378.716	2385.500	2479.990	2112.207	1738.125
56.0	2334.621	2353.519	2444.132	1957.632	1667.863
56.5	2297.794	2319.600	2407.790	1813.717	1580.158
57.0	2266.782	2281.804	2369.510	1711.959	1491.483
57.5	2231.894	2239.647	2327.353	1639.274	1417.829
58.0	2191.675	2198.459	2282.288	1580.158	1372.280
58.5	2146.611	2159.210	2227.048	1507.958	1343.691
59.0	2110.269	2120.929	2163.571	1409.107	1319.948
59.5	2074.896	2079.741	2091.371	1327.216	1286.513
60.0	2029.347	2036.615	2006.088	1278.760	1241.933
60.5	1985.736	1999.789	1929.527	1250.171	1185.239
61.0	1946.487	1959.570	1857.327	1225.943	1114.978
61.5	1912.083	1917.898	1773.498	1190.570	1040.840
62.0	1870.895	1873.802	1682.400	1145.021	966.702
62.5	1820.016	1829.223	1564.652	1085.420	868.336
63.0	1775.436	1790.942	1431.882	1011.282	720.544
63.5	1740.063	1753.146	1324.309	939.566	601.342
64.0	1696.937	1709.051	1251.140	867.851	530.596
64.5	1655.749	1670.286	1195.415	761.247	465.713
65.0	1616.984	1630.552	1130.968	621.693	366.620
65.5	1565.621	1585.488	1050.047	525.266	317.679
66.0	1522.010	1543.816	982.208	466.391	306.728
66.5	1484.214	1506.020	941.505	379.655	301.688
67.0	1443.027	1463.863	909.523	318.164	297.279
67.5	1399.901	1422.190	876.089	295.922	292.918
68.0	1355.321	1384.395	832.963	289.817	288.848
68.5	1316.556	1339.815	771.908	284.971	284.874
69.0	1278.760	1299.596	702.131	280.465	280.901
69.5	1236.603	1258.408	642.530	276.249	276.830
70.0	1195.415	1220.128	560.639	272.227	272.809
70.5	1155.681	1176.517	455.585	268.108	268.932
71.0	1120.793	1130.968	387.892	264.280	265.056
71.5	1080.574	1083.481	336.819	260.452	260.695
72.0	1040.355	1033.087	278.381	256.140	256.479
72.5	1000.621	968.640	249.501	252.021	251.972
73.0	963.310	901.286	241.990	247.854	247.078
73.5	925.999	843.623	236.999	243.396	242.136
74.0	888.687	782.568	232.105	238.598	236.709
74.5	851.861	715.699	227.502	233.414	231.330
75.0	810.673	630.416	222.850	228.132	225.709
75.5	772.877	570.814	218.392	222.705	219.846
76.0	735.081	527.204	214.080	217.084	213.886
76.5	694.862	479.523	209.428	211.318	207.732
77.0	654.644	428.935	204.776	205.406	201.626
77.5	613.940	395.984	199.785	199.446	195.327
78.0	568.392	355.814	194.600	193.292	189.028
78.5	530.596	305.517	189.028	186.847	182.535
79.0	497.161	266.703	183.407	180.548	176.187
79.5	462.466	210.542	177.641	174.249	169.694
80.0	427.432	180.984	171.680	167.755	163.055
80.5	392.350	153.316	165.720	161.069	156.514
81.0	356.735	143.915	159.518	154.430	150.602
81.5	321.604	138.052	153.025	147.888	144.933
82.0	289.962	131.946	146.241	141.250	137.373
82.5	261.712	125.792	139.457	134.660	130.686

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**CANDELA TABULATION - (Cont.)**

83.0	231.330	119.784	132.237	127.876	124.193
83.5	201.675	113.533	125.066	121.189	117.555
84.0	173.037	107.137	117.652	114.211	110.722
84.5	146.289	100.353	110.383	106.943	103.599
85.0	119.687	93.521	102.873	99.093	95.798
85.5	105.877	86.252	94.829	90.662	87.803
86.0	90.710	78.741	86.349	81.794	79.129
86.5	68.662	70.891	76.852	72.200	70.358
87.0	57.130	62.702	66.773	62.169	60.813
87.5	49.861	54.174	56.015	51.994	50.540
88.0	42.641	44.822	45.258	40.800	39.007
88.5	34.743	34.743	34.307	28.686	26.457
89.0	25.391	25.052	23.356	18.607	17.105
89.5	15.894	16.814	15.021	12.744	12.356
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-2-L120-840-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-2-L120-840-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-2-L120-840-HA-CA-DIM-UNV\_.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1704.81	N.A.	14.00
0-30	3636.07	N.A.	29.80
0-40	5991.49	N.A.	49.10
0-60	10521.48	N.A.	86.20
0-80	12100.11	N.A.	99.10
0-90	12210.02	N.A.	100.00
10-90	11770.4	N.A.	96.40
20-40	4286.68	N.A.	35.10
20-50	6751.48	N.A.	55.30
40-70	5669.45	N.A.	46.40
60-80	1578.63	N.A.	12.90
70-80	439.16	N.A.	3.60
80-90	109.91	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	12210.02	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	439.62
10-20	1265.19
20-30	1931.26
30-40	2355.42
40-50	2464.8
50-60	2065.19
60-70	1139.46
70-80	439.16
80-90	109.91
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-2-L120-840-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-2-L120-840-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

X=2H	Y=2H	23.5	25.1	23.9	25.4	25.7	21.1	22.7	21.5	23.0	23.3
	3H	25.2	26.6	25.6	26.9	27.3	21.2	22.6	21.6	23.0	23.3
	4H	25.7	27.1	26.1	27.4	27.8	21.3	22.6	21.7	23.0	23.4
	6H	26.0	27.2	26.4	27.6	28.0	21.4	22.7	21.9	23.0	23.4
	8H	26.1	27.2	26.5	27.6	28.0	21.5	22.7	21.9	23.1	23.5
	12H	26.1	27.2	26.5	27.6	28.0	21.6	22.7	22.0	23.1	23.5

UGR Viewed Endwise

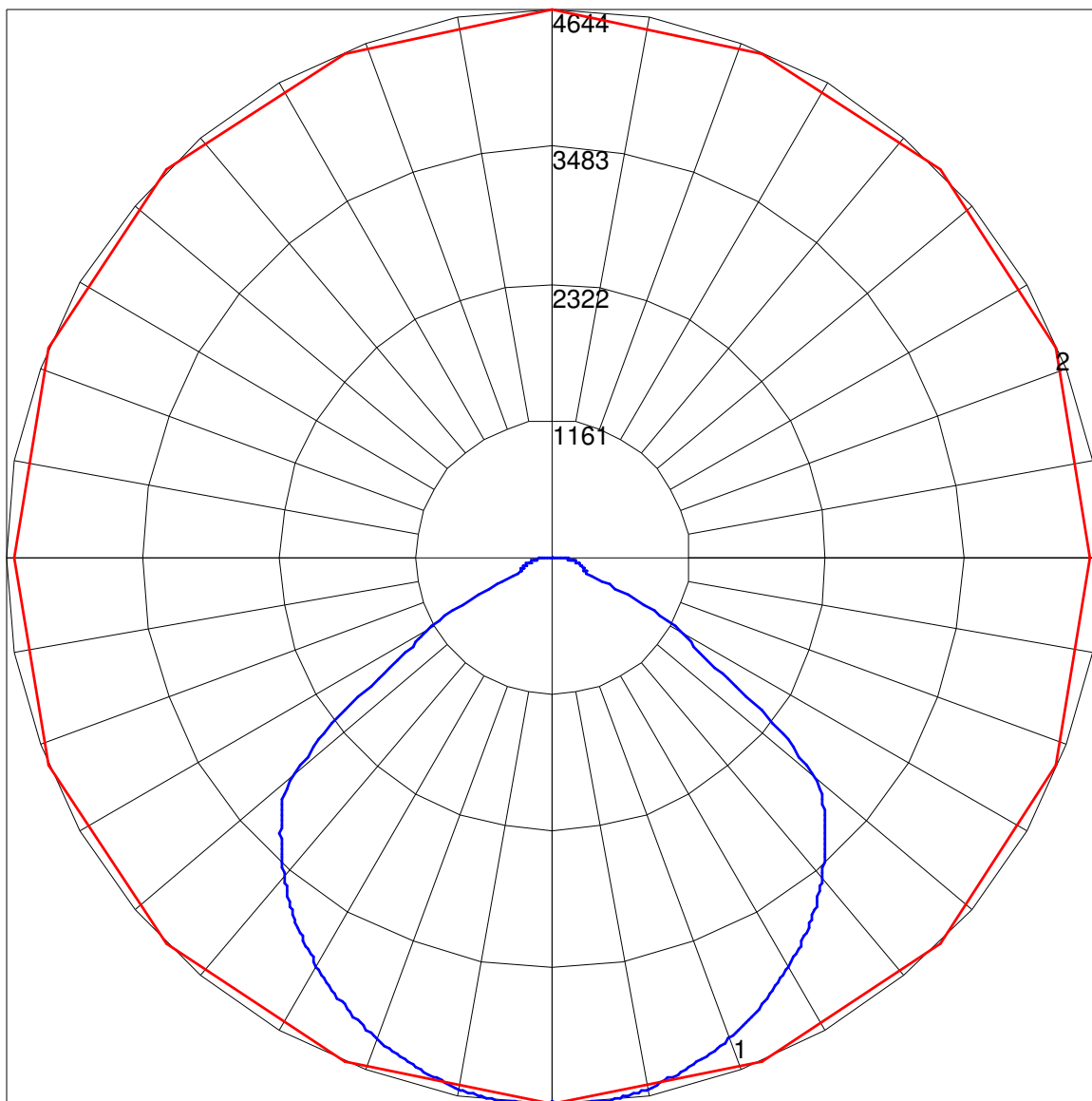
4H	2H	23.8	25.1	24.2	25.4	25.8	21.7	23.1	22.1	23.4	23.8
	3H	25.6	26.7	26.0	27.1	27.5	21.9	23.0	22.3	23.4	23.8
	4H	26.2	27.2	26.6	27.6	28.0	22.1	23.0	22.5	23.4	23.9
	6H	26.6	27.4	27.0	27.8	28.3	22.2	23.1	22.7	23.5	24.0
	8H	26.6	27.4	27.1	27.9	28.3	22.3	23.1	22.8	23.6	24.0
	12H	26.7	27.4	27.2	27.9	28.3	22.4	23.1	22.9	23.6	24.1

8H	4H	26.2	27.0	26.6	27.4	27.9	22.2	23.0	22.7	23.5	23.9
	6H	26.5	27.2	27.0	27.7	28.1	22.5	23.2	23.0	23.6	24.1
	8H	26.6	27.2	27.1	27.7	28.2	22.6	23.2	23.1	23.7	24.2
	12H	26.7	27.2	27.2	27.7	28.3	22.8	23.3	23.3	23.8	24.4

12H	4H	26.1	26.9	26.6	27.3	27.8	22.3	23.0	22.7	23.4	23.9
	6H	26.5	27.1	27.0	27.6	28.1	22.5	23.1	23.0	23.6	24.1
	8H	26.6	27.1	27.1	27.6	28.2	22.7	23.2	23.2	23.7	24.3

Maximum UGR = 28.3

POLAR GRAPH



Maximum Candela = 4643.561 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.)