



## IES INDOOR REPORT

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

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] 14629546.02  
[TESTLAB] UL Verification Services Inc.  
[ISSUE DATE] 2023-03-13  
[TEST DATE] 1/5/2023  
[MANUFAC] H E Williams Inc  
[LUMCAT] GS-2-L120-840-HA-MD-DIM-UNV  
[LUMINAIRE] White aluminum housing, prismatic lense enclosure  
[LAMP] 448 White LEDs  
[BALLAST] ULT D21CC80UNVPW-C  
[OTHER] 26 C, 276.949 V, 0.623316 A, 169.009 W, 0.979045 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	11599
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	136
Total Luminaire Watts	85
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)	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	22054	21429	18739
55	16654	15618	13194
65	12939	11701	10888
75	12462	10178	10961
85	11141	7556	8396

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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	5244.035	5244.035	5244.035	5244.035	5244.035
0.5	5198.213	5238.943	5254.217	5244.035	5249.126
1.0	5198.213	5238.943	5254.217	5238.943	5249.126
1.5	5198.213	5238.943	5254.217	5238.943	5249.126
2.0	5193.122	5238.943	5249.126	5233.852	5244.035
2.5	5193.122	5233.852	5249.126	5233.852	5238.943
3.0	5188.030	5228.761	5244.035	5228.761	5233.852
3.5	5188.030	5228.761	5238.943	5223.670	5233.852
4.0	5182.939	5223.670	5233.852	5218.578	5228.761
4.5	5177.848	5218.578	5228.761	5213.487	5223.670
5.0	5177.848	5213.487	5228.761	5213.487	5218.578
5.5	5172.757	5208.396	5223.670	5208.396	5213.487
6.0	5167.665	5203.304	5218.578	5203.304	5208.396
6.5	5162.574	5203.304	5213.487	5198.213	5203.304
7.0	5157.483	5193.122	5208.396	5193.122	5198.213
7.5	5147.300	5188.030	5203.304	5188.030	5193.122
8.0	5142.209	5182.939	5198.213	5182.939	5188.030
8.5	5137.118	5177.848	5193.122	5177.848	5177.848
9.0	5126.935	5167.665	5182.939	5172.757	5172.757
9.5	5121.844	5162.574	5177.848	5162.574	5167.665
10.0	5111.661	5157.483	5172.757	5157.483	5157.483
10.5	5101.478	5147.300	5162.574	5147.300	5152.391
11.0	5096.387	5137.118	5152.391	5137.118	5142.209
11.5	5086.714	5126.935	5142.209	5126.935	5132.026
12.0	5077.549	5116.752	5132.026	5116.752	5121.844
12.5	5067.876	5106.570	5121.844	5106.570	5111.661
13.0	5057.184	5096.387	5111.661	5096.387	5101.478
13.5	5044.965	5082.641	5101.478	5083.659	5091.296
14.0	5032.746	5070.422	5085.695	5071.949	5079.586
14.5	5019.509	5057.693	5072.458	5059.730	5068.385
15.0	5005.762	5045.474	5059.221	5046.492	5056.675
15.5	4990.997	5031.728	5044.965	5033.255	5044.965
16.0	4976.233	5017.472	5029.691	5020.018	5031.728
16.5	4960.959	5002.707	5014.926	5006.271	5017.981
17.0	4945.176	4986.924	4999.143	4991.506	5003.216
17.5	4928.374	4970.123	4983.869	4976.742	4987.943
18.0	4911.064	4953.322	4968.596	4960.959	4972.160
18.5	4894.772	4936.011	4952.303	4944.667	4954.340
19.0	4877.461	4918.701	4936.011	4927.865	4937.539
19.5	4860.660	4900.372	4919.210	4910.555	4919.719
20.0	4842.841	4881.534	4899.863	4893.754	4902.918
20.5	4823.494	4861.169	4878.989	4876.952	4884.080
21.0	4803.638	4839.277	4856.078	4859.133	4865.751
21.5	4783.272	4817.384	4836.731	4839.786	4846.405
22.0	4761.889	4795.492	4816.366	4820.439	4827.058
22.5	4738.978	4772.072	4793.455	4799.565	4806.183
23.0	4715.558	4748.652	4769.526	4777.672	4783.782
23.5	4691.120	4724.723	4745.597	4754.761	4761.380
24.0	4665.154	4699.266	4720.140	4730.832	4738.469
24.5	4639.698	4673.300	4695.193	4705.885	4715.049
25.0	4613.223	4647.335	4670.246	4679.919	4690.611
25.5	4585.221	4619.333	4643.771	4652.935	4665.664
26.0	4557.728	4592.349	4617.296	4624.933	4638.680
26.5	4529.726	4563.328	4589.294	4596.931	4611.187

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**CANDELA TABULATION - (Cont.)**

27.0	4500.196	4534.817	4560.783	4567.401	4582.675
27.5	4470.158	4505.288	4531.253	4537.363	4553.146
28.0	4438.592	4474.740	4500.706	4505.797	4522.089
28.5	4407.026	4443.174	4468.630	4473.722	4489.505
29.0	4371.387	4410.590	4436.046	4440.119	4455.393
29.5	4337.275	4376.987	4402.444	4405.498	4419.754
30.0	4302.145	4342.366	4367.314	4369.350	4382.587
30.5	4265.488	4307.236	4330.656	4331.165	4342.875
31.0	4227.812	4271.088	4293.490	4289.417	4301.127
31.5	4189.627	4234.431	4254.287	4245.632	4256.832
32.0	4151.443	4197.773	4215.593	4205.410	4217.120
32.5	4111.221	4158.061	4174.863	4162.134	4173.335
33.0	4072.018	4118.349	4133.114	4114.785	4111.731
33.5	4030.779	4076.601	4089.329	4066.927	4055.217
34.0	3989.030	4033.325	4045.035	4016.014	3997.685
34.5	3947.791	3989.539	3999.213	3962.046	3938.117
35.0	3903.497	3945.245	3951.864	3906.551	3875.494
35.5	3859.202	3899.933	3902.478	3848.511	3809.308
36.0	3812.871	3852.584	3851.565	3787.924	3741.593
36.5	3765.522	3803.707	3798.107	3724.283	3671.333
37.0	3717.155	3753.812	3743.630	3659.623	3600.055
37.5	3667.770	3702.899	3687.626	3591.909	3527.250
38.0	3616.347	3651.477	3631.112	3524.195	3452.408
38.5	3563.907	3598.528	3572.562	3454.444	3377.566
39.0	3510.448	3545.069	3512.994	3383.166	3300.687
39.5	3455.462	3491.102	3451.899	3311.379	3224.318
40.0	3399.967	3436.116	3389.785	3239.082	3147.439
40.5	3342.945	3380.620	3326.144	3165.768	3069.542
41.0	3285.413	3324.107	3262.502	3092.962	2987.063
41.5	3228.391	3266.575	3197.843	3019.138	2902.548
42.0	3170.350	3208.535	3131.656	2946.842	2832.288
42.5	3112.309	3149.985	3066.487	2879.637	2762.028
43.0	3053.759	3090.926	3001.319	2806.831	2688.204
43.5	2995.209	3030.848	2936.150	2729.444	2613.362
44.0	2936.659	2970.771	2870.473	2659.693	2539.538
44.5	2878.619	2909.676	2804.795	2589.433	2468.260
45.0	2821.087	2848.071	2741.154	2520.701	2396.982
45.5	2762.537	2787.484	2676.494	2452.986	2327.231
46.0	2703.987	2726.898	2612.853	2386.799	2260.026
46.5	2646.965	2665.803	2550.739	2322.649	2194.858
47.0	2589.433	2605.725	2488.116	2259.517	2131.216
47.5	2531.901	2546.157	2427.021	2197.403	2070.121
48.0	2475.388	2486.589	2366.434	2137.326	2011.062
48.5	2418.875	2428.548	2306.357	2078.776	1953.530
49.0	2362.361	2371.016	2247.807	2020.735	1898.544
49.5	2305.339	2313.485	2190.275	1965.240	1845.595
50.0	2249.335	2256.971	2133.253	1910.763	1794.682
50.5	2194.349	2200.967	2076.740	1857.305	1744.787
51.0	2139.872	2145.981	2022.263	1806.392	1696.929
51.5	2084.886	2092.013	1967.786	1753.442	1651.616
52.0	2031.936	2038.555	1915.345	1705.584	1606.813
52.5	1978.478	1986.115	1865.451	1660.272	1564.046
53.0	1926.037	1934.183	1817.593	1615.468	1522.807
53.5	1874.615	1882.761	1765.152	1571.683	1482.585
54.0	1824.720	1832.357	1714.239	1528.916	1443.891
54.5	1775.844	1782.972	1666.381	1487.677	1406.216

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**CANDELA TABULATION - (Cont.)**

55.0	1727.986	1734.095	1620.559	1447.455	1369.049
55.5	1680.128	1685.728	1575.247	1408.252	1333.410
56.0	1634.815	1638.888	1530.953	1370.068	1298.790
56.5	1590.012	1592.557	1487.677	1333.410	1265.187
57.0	1545.717	1547.245	1445.419	1297.262	1232.094
57.5	1503.460	1502.951	1404.179	1262.132	1200.018
58.0	1462.729	1460.184	1363.958	1228.021	1168.962
58.5	1422.508	1417.926	1324.246	1194.927	1138.923
59.0	1383.305	1377.196	1285.552	1162.343	1109.902
59.5	1344.611	1336.974	1247.877	1130.777	1081.391
60.0	1307.954	1297.771	1211.219	1100.738	1054.407
60.5	1271.806	1260.605	1175.580	1070.700	1028.442
61.0	1236.676	1223.948	1140.450	1042.188	1002.476
61.5	1202.055	1188.308	1106.339	1014.186	978.038
62.0	1168.962	1154.197	1073.245	987.711	954.618
62.5	1136.886	1121.103	1041.170	961.746	932.216
63.0	1105.320	1090.046	1009.604	936.289	910.833
63.5	1073.245	1060.517	979.565	911.851	889.959
64.0	1036.588	1026.914	950.545	888.431	870.102
64.5	1013.168	998.403	922.034	866.029	850.756
65.0	989.239	970.910	894.541	844.137	832.427
65.5	962.255	943.926	868.066	823.263	814.607
66.0	937.308	914.397	842.609	802.388	797.297
66.5	912.360	888.431	817.662	782.532	780.496
67.0	888.940	863.484	793.224	763.185	764.204
67.5	866.029	839.046	770.313	744.347	747.911
68.0	844.137	815.626	747.911	726.019	732.128
68.5	822.753	792.715	726.019	708.199	716.345
69.0	802.388	770.313	704.635	690.380	701.071
69.5	783.041	748.420	684.270	673.069	685.798
70.0	763.694	727.037	663.905	656.268	671.033
70.5	744.857	706.163	644.558	638.958	655.759
71.0	726.528	685.798	624.702	622.156	640.994
71.5	708.199	665.432	605.864	605.355	625.720
72.0	690.889	645.067	587.026	588.554	610.446
72.5	673.069	625.211	566.661	571.243	594.663
73.0	655.759	605.355	548.333	554.442	578.880
73.5	638.958	585.499	531.022	536.623	563.097
74.0	622.156	565.643	512.693	519.312	546.805
74.5	601.791	545.787	493.856	501.493	530.004
75.0	583.463	525.931	476.545	483.673	513.203
75.5	564.625	506.584	459.235	465.344	495.383
76.0	545.278	486.728	438.361	447.525	478.073
76.5	525.931	466.872	419.523	429.196	459.744
77.0	506.075	447.525	400.685	410.868	441.415
77.5	486.219	427.669	381.847	392.539	422.578
78.0	465.344	408.322	363.519	373.701	403.231
78.5	443.961	388.466	344.681	355.372	383.884
79.0	423.087	369.119	326.352	337.044	364.028
79.5	402.212	349.263	307.005	318.206	344.172
80.0	380.829	329.916	288.676	299.877	324.316
80.5	359.445	310.569	270.348	281.549	303.950
81.0	338.062	291.222	252.019	263.220	284.094
81.5	317.188	272.384	233.690	245.400	263.729
82.0	296.313	254.056	215.871	227.581	243.873
82.5	275.439	235.218	198.051	210.271	224.526

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**CANDELA TABULATION - (Cont.)**

83.0	255.074	215.362	181.250	192.960	205.179
83.5	234.709	199.070	164.958	176.159	186.851
84.0	214.853	183.287	148.666	159.358	168.013
84.5	194.997	165.467	133.392	143.575	150.193
85.0	175.650	149.684	119.136	127.792	132.374
85.5	156.812	134.410	104.881	113.027	116.082
86.0	137.465	118.627	91.643	98.771	99.280
86.5	119.136	103.353	79.424	83.497	84.516
87.0	100.808	88.079	67.205	69.242	69.751
87.5	82.988	72.806	55.495	56.004	56.004
88.0	65.169	59.059	44.803	43.785	43.785
88.5	47.858	46.840	35.130	33.603	32.075
89.0	33.603	36.148	26.984	24.947	23.420
89.5	22.911	26.984	19.347	17.820	17.820
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-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-2-L120-840-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-2-L120-840-HA-MD-DIM-UNV\_.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1919.56	N.A.	16.50
0-30	4063.76	N.A.	35.00
0-40	6497.69	N.A.	56.00
0-60	9998.11	N.A.	86.20
0-80	11440.68	N.A.	98.60
0-90	11599.48	N.A.	100.00
10-90	11103.69	N.A.	95.70
20-40	4578.13	N.A.	39.50
20-50	6646.82	N.A.	57.30
40-70	4408.44	N.A.	38.00
60-80	1442.57	N.A.	12.40
70-80	534.55	N.A.	4.60
80-90	158.80	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	11599.48	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	495.79
10-20	1423.77
20-30	2144.2
30-40	2433.93
40-50	2068.69
50-60	1431.74
60-70	908.02
70-80	534.55
80-90	158.80
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-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-2-L120-840-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	21.0	22.5	21.3	22.8	23.1	19.7	21.2	20.1	21.5	21.8
	3H	22.4	23.7	22.8	24.1	24.4	21.3	22.6	21.6	22.9	23.3
	4H	23.0	24.3	23.4	24.6	25.0	22.0	23.2	22.4	23.6	24.0
	6H	23.6	24.8	24.0	25.1	25.5	22.6	23.7	23.0	24.1	24.5
	8H	23.8	24.9	24.2	25.3	25.7	22.7	23.8	23.2	24.2	24.6
	12H	23.9	25.0	24.4	25.4	25.8	22.9	23.9	23.3	24.3	24.7

UGR Viewed Endwise

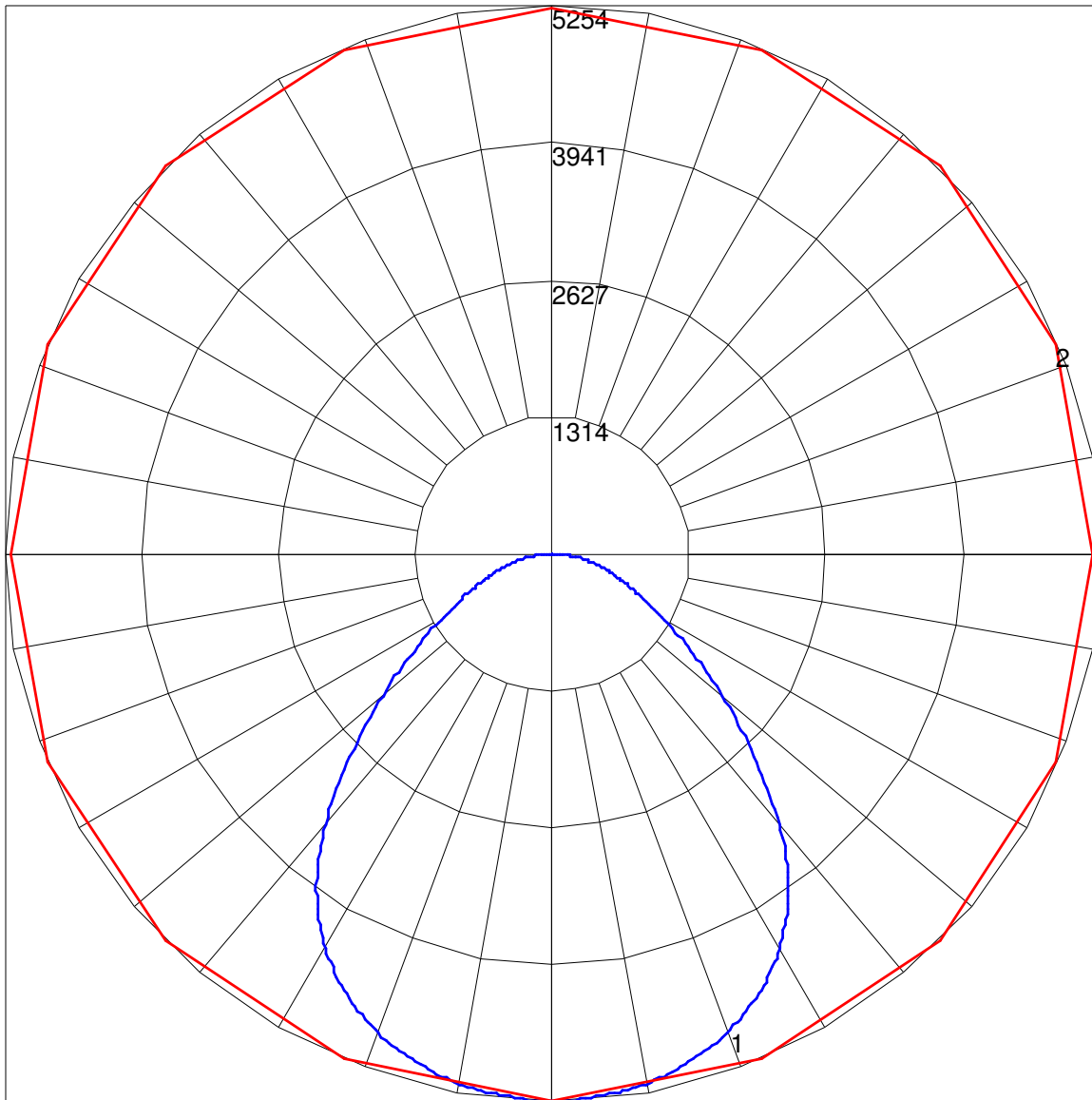
4H	2H	21.3	22.6	21.7	22.9	23.3	20.3	21.5	20.7	21.9	22.3
	3H	23.0	24.0	23.4	24.4	24.8	22.1	23.1	22.5	23.5	23.9
	4H	23.8	24.7	24.2	25.1	25.6	22.9	23.8	23.3	24.3	24.7
	6H	24.5	25.3	24.9	25.7	26.2	23.6	24.4	24.1	24.9	25.3
	8H	24.7	25.5	25.2	25.9	26.4	23.8	24.6	24.3	25.1	25.5
	12H	24.9	25.6	25.4	26.1	26.6	24.0	24.7	24.5	25.2	25.6

8H	4H	24.0	24.8	24.4	25.2	25.7	23.2	24.0	23.7	24.4	24.9
	6H	24.8	25.4	25.3	25.9	26.4	24.0	24.7	24.5	25.1	25.6
	8H	25.1	25.7	25.6	26.2	26.7	24.3	24.9	24.8	25.4	25.9
	12H	25.4	25.9	25.9	26.4	27.0	24.5	25.1	25.1	25.6	26.1

12H	4H	24.0	24.7	24.5	25.2	25.6	23.2	23.9	23.7	24.4	24.9
	6H	24.8	25.4	25.4	25.9	26.4	24.1	24.7	24.6	25.1	25.7
	8H	25.2	25.7	25.7	26.2	26.8	24.4	24.9	24.9	25.4	26.0

Maximum UGR = 27.0

POLAR GRAPH



Maximum Candela = 5254.217 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.)