



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : GS-2-L120-850-HA-ND-DIM-UNV.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] 14629546.01  
[TESTLAB] UL Verification Services Inc.  
[ISSUEDATE] 2023-03-13  
[TESTDATE] 1/5/2023  
[MANUFAC] H E Williams Inc  
[LUMCAT] GS-2-L120-850-HA-ND-DIM-UNV  
[LUMINAIRE] White aluminum housing, prismatic lense enclosure  
[LAMP] 448 White LEDs  
[BALLAST] ULT D21CC80UNVPW-C  
[OTHER] 25.5 C, 276.967 V, 0.622888 A, 168.916 W, 0.979112 PF, 59.9997  
[MORE] Hz  
[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	12073
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	142
Total Luminaire Watts	85
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.10
Spacing Criterion (90-270)	1.10
Spacing Criterion (Diagonal)	1.22
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	21783	21442	21586
55	20066	19853	19485
65	17918	17753	16285
75	14976	14270	11616
85	11043	8781	7152

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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	5312.628	5312.628	5312.628	5312.628	5312.628
0.5	5265.428	5312.628	5323.117	5312.628	5323.117
1.0	5260.183	5307.383	5323.117	5307.383	5323.117
1.5	5260.183	5307.383	5317.872	5307.383	5317.872
2.0	5254.939	5302.139	5312.628	5302.139	5312.628
2.5	5254.939	5296.894	5312.628	5296.894	5307.383
3.0	5249.694	5291.650	5307.383	5291.650	5302.139
3.5	5241.303	5286.406	5296.894	5281.161	5286.406
4.0	5235.534	5281.161	5291.650	5275.917	5286.406
4.5	5229.241	5275.917	5286.406	5265.428	5275.917
5.0	5221.899	5265.428	5281.161	5260.183	5265.428
5.5	5212.983	5260.183	5270.672	5249.694	5254.939
6.0	5203.019	5249.694	5260.183	5238.157	5249.694
6.5	5192.530	5237.108	5249.694	5226.094	5235.534
7.0	5179.943	5224.521	5235.534	5214.032	5222.948
7.5	5164.734	5210.361	5220.326	5199.348	5209.837
8.0	5151.099	5195.152	5204.592	5184.139	5194.628
8.5	5135.890	5178.370	5187.810	5168.405	5178.894
9.0	5118.583	5160.539	5169.454	5151.623	5162.112
9.5	5100.228	5141.134	5151.623	5133.792	5143.757
10.0	5079.250	5121.205	5131.170	5115.437	5124.877
10.5	5058.272	5099.179	5110.716	5095.508	5103.899
11.0	5035.721	5077.152	5088.690	5074.530	5081.348
11.5	5012.645	5054.076	5066.663	5052.503	5059.845
12.0	4988.521	5029.952	5042.014	5028.903	5035.196
12.5	4964.921	5004.254	5016.841	5005.303	5010.548
13.0	4940.796	4978.556	4990.094	4979.081	4984.850
13.5	4915.099	4951.810	4962.823	4950.236	4957.054
14.0	4887.827	4922.965	4935.027	4919.819	4929.783
14.5	4860.032	4893.596	4906.183	4893.072	4900.414
15.0	4830.663	4864.752	4876.290	4864.227	4871.045
15.5	4800.245	4834.858	4845.872	4832.761	4841.152
16.0	4769.827	4803.916	4813.356	4800.770	4809.161
16.5	4737.312	4773.498	4781.365	4769.303	4775.596
17.0	4703.747	4741.507	4751.996	4736.263	4741.507
17.5	4670.183	4708.992	4717.907	4702.698	4706.894
18.0	4637.143	4675.427	4682.769	4668.609	4672.280
18.5	4602.529	4642.387	4649.205	4633.996	4636.618
19.0	4568.440	4608.823	4614.592	4598.858	4600.432
19.5	4533.827	4574.734	4580.503	4562.671	4565.294
20.0	4499.738	4539.596	4545.365	4527.009	4530.156
20.5	4465.125	4504.983	4510.227	4490.823	4493.969
21.0	4429.462	4470.369	4475.614	4454.636	4458.307
21.5	4395.898	4434.707	4439.951	4418.449	4421.596
22.0	4360.236	4400.094	4404.289	4382.262	4385.934
22.5	4326.147	4365.480	4368.102	4346.076	4349.747
23.0	4291.533	4329.818	4331.391	4308.840	4311.987
23.5	4256.920	4294.680	4293.631	4270.556	4274.227
24.0	4222.831	4260.591	4255.871	4232.271	4236.991
24.5	4190.840	4224.404	4216.538	4193.987	4198.707
25.0	4156.751	4188.742	4177.729	4155.702	4161.995
25.5	4121.613	4152.555	4138.920	4118.467	4124.760
26.0	4087.524	4116.369	4100.111	4081.231	4089.098
26.5	4053.435	4079.658	4061.302	4043.471	4052.911

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**CANDELA TABULATION - (Cont.)**

27.0	4019.346	4046.618	4022.493	4006.235	4017.249
27.5	3984.733	4015.151	3984.209	3968.475	3981.586
28.0	3950.120	3973.195	3946.449	3931.240	3945.924
28.5	3916.031	3937.009	3908.689	3894.529	3910.786
29.0	3878.271	3904.493	3871.453	3857.817	3875.649
29.5	3843.657	3867.257	3834.742	3822.155	3840.511
30.0	3809.044	3830.022	3798.555	3786.493	3803.800
30.5	3775.480	3794.884	3762.893	3751.880	3768.137
31.0	3741.391	3759.746	3726.706	3717.266	3732.475
31.5	3708.351	3724.608	3690.519	3682.128	3696.288
32.0	3675.835	3689.471	3654.857	3647.515	3660.626
32.5	3642.795	3655.382	3619.195	3613.426	3626.013
33.0	3610.279	3620.768	3583.533	3578.288	3591.399
33.5	3578.288	3587.204	3547.870	3543.675	3557.835
34.0	3545.773	3552.590	3512.733	3508.537	3524.270
34.5	3513.257	3517.977	3473.399	3472.875	3490.181
35.0	3480.217	3483.888	3439.310	3437.213	3456.093
35.5	3447.701	3449.799	3405.746	3401.550	3422.004
36.0	3414.661	3415.710	3370.084	3366.412	3387.390
36.5	3381.621	3380.572	3334.946	3330.750	3353.301
37.0	3349.106	3345.959	3299.808	3295.088	3318.163
37.5	3320.786	3310.297	3263.621	3259.426	3283.550
38.0	3289.319	3275.159	3228.483	3223.763	3248.937
38.5	3246.839	3239.497	3193.346	3188.626	3214.848
39.0	3211.701	3203.310	3159.781	3153.488	3180.234
39.5	3176.563	3167.648	3126.741	3118.350	3145.097
40.0	3140.377	3131.461	3088.981	3083.212	3109.959
40.5	3104.714	3095.799	3052.270	3048.074	3074.821
41.0	3069.052	3060.661	3017.657	3012.937	3039.683
41.5	3033.390	3024.474	2983.043	2977.274	3004.021
42.0	2997.203	2988.812	2947.905	2941.612	2968.359
42.5	2962.065	2953.150	2913.816	2905.950	2933.745
43.0	2926.403	2917.488	2879.727	2870.812	2899.656
43.5	2891.265	2881.825	2845.114	2834.625	2865.043
44.0	2856.127	2846.687	2811.550	2798.963	2829.905
44.5	2820.990	2809.452	2776.936	2763.825	2795.816
45.0	2786.376	2771.692	2742.847	2728.163	2761.203
45.5	2751.763	2738.127	2708.758	2692.501	2725.016
46.0	2716.625	2702.990	2674.669	2656.838	2689.878
46.5	2683.061	2664.181	2640.056	2621.176	2653.692
47.0	2648.447	2631.665	2605.967	2585.514	2617.505
47.5	2613.309	2598.625	2571.354	2550.376	2581.318
48.0	2578.696	2563.487	2537.265	2514.714	2544.083
48.5	2544.083	2527.825	2502.652	2479.576	2507.372
49.0	2509.469	2492.687	2468.563	2443.914	2471.185
49.5	2474.856	2457.549	2434.474	2409.825	2433.949
50.0	2439.718	2421.887	2400.385	2375.211	2397.238
50.5	2404.580	2386.225	2366.820	2339.025	2360.527
51.0	2368.918	2351.087	2332.731	2303.362	2323.291
51.5	2333.780	2315.949	2299.167	2269.274	2286.580
52.0	2298.118	2281.336	2265.078	2234.136	2248.820
52.5	2261.407	2246.198	2231.513	2198.998	2211.060
53.0	2225.220	2211.060	2197.425	2164.385	2173.300
53.5	2189.558	2175.922	2163.336	2129.771	2135.540
54.0	2153.896	2141.309	2129.247	2095.158	2097.780
54.5	2118.233	2106.696	2094.633	2059.496	2060.020

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**CANDELA TABULATION - (Cont.)**

55.0	2082.047	2072.082	2060.020	2024.358	2021.735
55.5	2046.909	2036.944	2025.931	1988.171	1983.975
56.0	2011.247	2001.807	1990.793	1952.509	1946.215
56.5	1975.584	1966.669	1953.558	1916.322	1908.455
57.0	1939.922	1932.055	1916.846	1880.135	1870.171
57.5	1904.784	1896.918	1884.855	1843.424	1831.886
58.0	1869.122	1861.780	1850.766	1806.713	1794.126
58.5	1833.460	1826.642	1815.629	1769.477	1755.317
59.0	1797.797	1790.980	1780.491	1731.717	1717.033
59.5	1762.135	1755.842	1745.353	1694.482	1679.273
60.0	1726.997	1720.180	1709.691	1656.722	1646.233
60.5	1691.335	1684.517	1675.077	1619.486	1604.802
61.0	1655.673	1648.855	1640.464	1582.251	1560.748
61.5	1620.011	1613.717	1604.802	1544.491	1520.890
62.0	1584.873	1577.531	1569.139	1506.730	1481.557
62.5	1548.686	1541.868	1533.477	1469.495	1441.699
63.0	1513.024	1506.730	1498.339	1431.735	1402.366
63.5	1476.837	1471.068	1463.726	1395.024	1362.508
64.0	1440.650	1435.930	1428.588	1357.788	1323.175
64.5	1404.988	1400.793	1392.926	1321.077	1283.841
65.0	1369.850	1365.655	1357.264	1283.841	1245.032
65.5	1334.713	1330.517	1322.650	1247.130	1206.748
66.0	1299.575	1295.379	1287.512	1210.419	1168.463
66.5	1264.437	1261.290	1252.375	1173.708	1130.179
67.0	1229.299	1226.677	1217.237	1133.850	1092.419
67.5	1194.686	1192.063	1182.099	1098.712	1055.183
68.0	1160.072	1157.450	1146.437	1063.574	1017.948
68.5	1125.983	1123.361	1111.299	1027.388	981.237
69.0	1091.894	1088.748	1075.637	990.677	944.525
69.5	1058.330	1055.183	1040.499	954.490	908.863
70.0	1024.766	1021.094	1005.361	918.303	873.201
70.5	991.725	987.005	970.223	882.641	838.063
71.0	958.685	952.917	935.610	846.979	803.450
71.5	925.645	919.877	900.997	812.365	768.836
72.0	893.130	886.312	866.383	777.752	735.272
72.5	860.614	853.272	832.294	743.663	702.232
73.0	828.623	820.232	799.254	710.099	669.192
73.5	796.632	787.716	765.690	677.058	637.201
74.0	764.116	755.201	732.650	645.067	605.210
74.5	733.174	723.210	700.134	613.076	574.267
75.0	701.183	691.743	668.143	581.610	543.849
75.5	670.241	660.276	635.627	550.667	513.956
76.0	639.823	629.858	604.161	520.774	485.636
76.5	609.405	599.441	573.218	491.405	457.316
77.0	579.512	569.547	542.276	463.085	428.472
77.5	550.143	540.703	512.383	435.289	400.676
78.0	521.298	511.858	482.489	408.018	376.552
78.5	492.978	483.538	453.120	381.796	352.951
79.0	465.183	455.743	424.800	356.098	329.351
79.5	437.912	428.472	396.480	330.925	306.276
80.0	411.165	401.725	368.685	306.800	284.249
80.5	384.943	376.027	341.938	285.298	262.747
81.0	359.769	350.329	315.191	264.845	242.818
81.5	335.120	325.156	289.494	240.720	223.938
82.0	310.471	301.031	265.369	219.742	205.582
82.5	286.347	276.907	241.769	200.338	187.751

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**CANDELA TABULATION - (Cont.)**

83.0	262.747	253.307	219.218	181.982	170.969
83.5	240.196	230.756	197.191	164.676	155.236
84.0	217.645	208.729	176.214	148.418	140.551
84.5	195.618	186.702	156.809	132.685	126.391
85.0	174.116	165.725	138.453	118.525	112.756
85.5	152.613	145.271	121.147	104.365	99.120
86.0	132.160	125.867	105.413	90.729	85.485
86.5	111.182	106.462	89.680	77.618	73.947
87.0	91.253	88.107	74.996	67.129	64.507
87.5	72.373	71.325	61.885	57.689	56.116
88.0	55.067	55.591	51.396	47.724	47.200
88.5	39.333	41.956	40.907	40.382	39.858
89.0	24.649	30.418	33.040	35.138	35.138
89.5	14.684	21.502	26.747	30.418	30.418
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-L120-850-HA-ND-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-L120-850-HA-ND-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-L120-850-HA-ND-DIM-UNV.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1863.67	N.A.	15.40
0-30	3783.3	N.A.	31.30
0-40	5945.97	N.A.	49.20
0-60	9904.75	N.A.	82.00
0-80	11904.3	N.A.	98.60
0-90	12073.45	N.A.	100.00
10-90	11575.66	N.A.	95.90
20-40	4082.3	N.A.	33.80
20-50	6207.84	N.A.	51.40
40-70	5274.37	N.A.	43.70
60-80	1999.55	N.A.	16.60
70-80	683.96	N.A.	5.70
80-90	169.15	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	12073.45	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	497.80
10-20	1365.87
20-30	1919.63
30-40	2162.68
40-50	2125.53
50-60	1833.24
60-70	1315.59
70-80	683.96
80-90	169.15
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-L120-850-HA-ND-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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74	72
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61
4	84	73	64	58	82	71	63	57	69	62	56	66	60	56	64	59	55	53
5	78	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	46
6	72	59	50	44	70	58	50	44	56	49	43	55	48	43	53	47	43	41
7	67	54	45	39	65	53	45	39	51	44	39	50	43	38	49	43	38	36
8	62	49	41	35	61	48	41	35	47	40	35	46	39	35	45	39	34	33
9	58	45	37	32	57	45	37	32	44	36	32	42	36	31	41	36	31	29
10	55	42	34	29	54	41	34	29	40	34	29	39	33	29	39	33	29	27

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : GS-2-L120-850-HA-ND-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	22.4	24.0	22.8	24.3	24.6	22.2	23.8	22.6	24.1	24.4
	3H	24.1	25.5	24.5	25.9	26.2	23.7	25.1	24.0	25.4	25.8
	4H	24.7	26.0	25.1	26.4	26.8	24.1	25.5	24.5	25.8	26.2
	6H	25.1	26.4	25.5	26.7	27.1	24.4	25.6	24.8	26.0	26.4
	8H	25.3	26.4	25.7	26.8	27.2	24.4	25.6	24.9	26.0	26.4
	12H	25.3	26.5	25.8	26.9	27.3	24.5	25.6	24.9	26.0	26.4

UGR Viewed Endwise

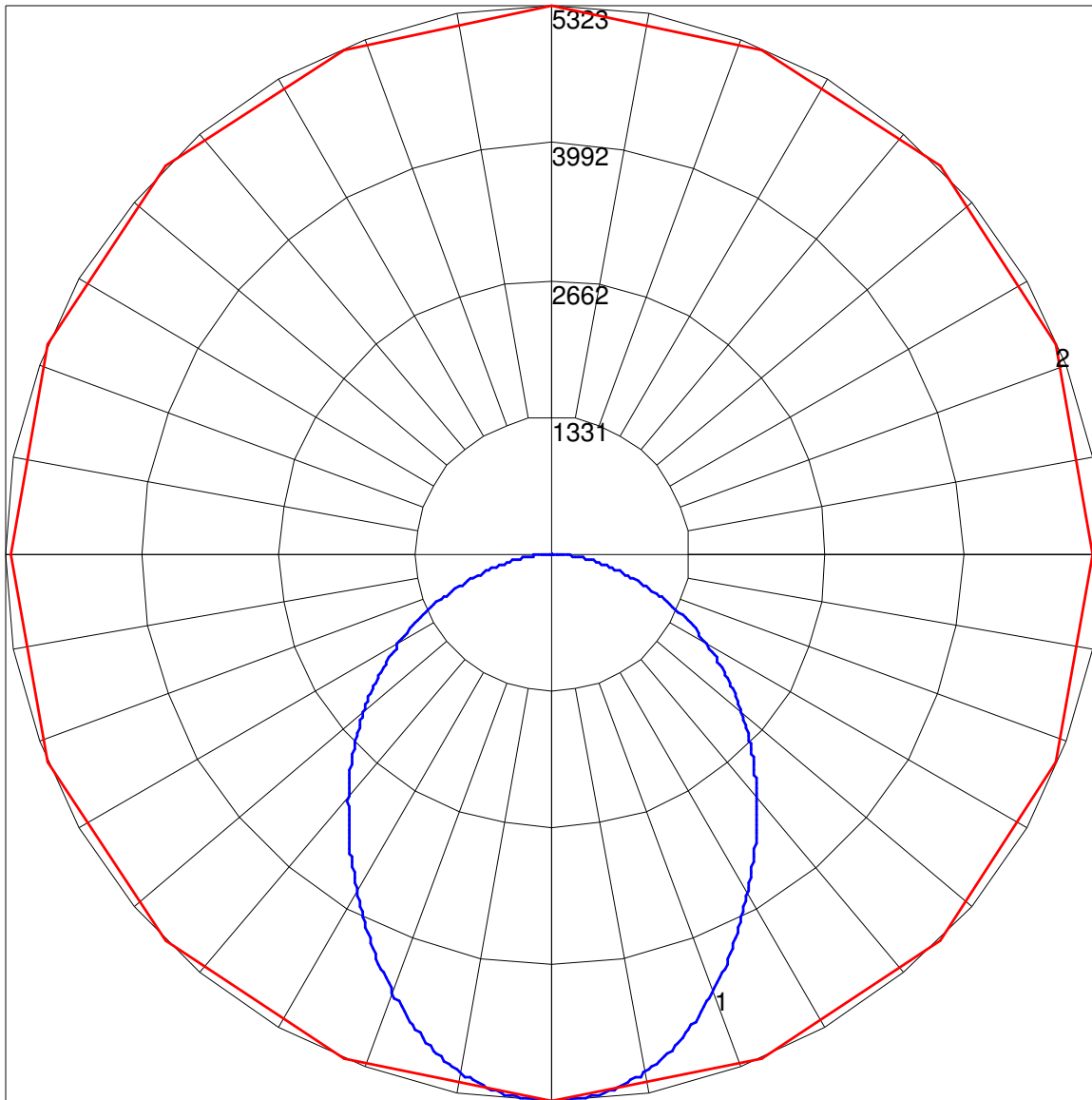
4H	2H	23.0	24.3	23.4	24.7	25.1	22.8	24.2	23.2	24.5	24.9
	3H	24.9	26.0	25.3	26.4	26.8	24.5	25.6	24.9	26.0	26.4
	4H	25.6	26.6	26.0	27.0	27.5	25.0	26.1	25.5	26.5	26.9
	6H	26.2	27.0	26.6	27.5	27.9	25.4	26.3	25.8	26.7	27.2
	8H	26.3	27.2	26.8	27.6	28.1	25.5	26.3	25.9	26.7	27.2
	12H	26.4	27.2	26.9	27.7	28.1	25.5	26.3	26.0	26.8	27.2

8H	4H	25.8	26.7	26.3	27.1	27.6	25.3	26.2	25.8	26.6	27.1
	6H	26.5	27.2	27.0	27.7	28.1	25.8	26.5	26.3	26.9	27.4
	8H	26.7	27.3	27.2	27.9	28.3	25.9	26.5	26.4	27.0	27.5
	12H	26.9	27.5	27.4	28.0	28.5	26.0	26.6	26.5	27.0	27.6

12H	4H	25.8	26.6	26.3	27.1	27.5	25.4	26.1	25.8	26.6	27.0
	6H	26.5	27.1	27.0	27.6	28.1	25.8	26.5	26.3	26.9	27.4
	8H	26.8	27.3	27.3	27.8	28.4	26.0	26.5	26.5	27.0	27.6

Maximum UGR = 28.5

POLAR GRAPH



Maximum Candela = 5323.117 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.)