

IES INDOOR REPORT

PHOTOMETRIC FILENAME : GS-2-L180-840-MD-EM20W-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] 14629546.02
[TESTLAB] UL Verification Services Inc.
[ISSUE DATE] 2/3/2025
[TEST DATE] 1/5/2023
[MANUFAC] H E Williams Inc
[LUMCAT] GS-2-L180-840-MD-EM20W-DIM-UNV (EMER ONLY)
[LUMINAIRE] White aluminum housing, prismatic lense enclosure
[LAMP] 448 White LEDs
[OTHER] This test was performed using the calibrated photodetector met
[MORE] hod of absolute photometry.

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2829
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	141
Total Luminaire Watts	20
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	5379	5226	4570
55	4062	3809	3218
65	3156	2854	2656
75	3039	2482	2673
85	2717	1843	2048

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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	1278.966	1278.966	1278.966	1278.966	1278.966
0.5	1267.791	1277.725	1281.450	1278.966	1280.208
1.0	1267.791	1277.725	1281.450	1277.725	1280.208
1.5	1267.791	1277.725	1281.450	1277.725	1280.208
2.0	1266.549	1277.725	1280.208	1276.483	1278.966
2.5	1266.549	1276.483	1280.208	1276.483	1277.725
3.0	1265.308	1275.241	1278.966	1275.241	1276.483
3.5	1265.308	1275.241	1277.725	1274.000	1276.483
4.0	1264.066	1274.000	1276.483	1272.758	1275.241
4.5	1262.824	1272.758	1275.241	1271.516	1274.000
5.0	1262.824	1271.516	1275.241	1271.516	1272.758
5.5	1261.582	1270.274	1274.000	1270.274	1271.516
6.0	1260.341	1269.033	1272.758	1269.033	1270.274
6.5	1259.099	1269.033	1271.516	1267.791	1269.033
7.0	1257.857	1266.549	1270.274	1266.549	1267.791
7.5	1255.374	1265.308	1269.033	1265.308	1266.549
8.0	1254.132	1264.066	1267.791	1264.066	1265.308
8.5	1252.890	1262.824	1266.549	1262.824	1262.824
9.0	1250.407	1260.341	1264.066	1261.582	1261.582
9.5	1249.165	1259.099	1262.824	1259.099	1260.341
10.0	1246.682	1257.857	1261.582	1257.857	1257.857
10.5	1244.198	1255.374	1259.099	1255.374	1256.616
11.0	1242.957	1252.890	1256.616	1252.890	1254.132
11.5	1240.597	1250.407	1254.132	1250.407	1251.649
12.0	1238.362	1247.924	1251.649	1247.924	1249.165
12.5	1236.003	1245.440	1249.165	1245.440	1246.682
13.0	1233.396	1242.957	1246.682	1242.957	1244.198
13.5	1230.415	1239.604	1244.198	1239.852	1241.715
14.0	1227.435	1236.624	1240.349	1236.997	1238.859
14.5	1224.207	1233.520	1237.121	1234.016	1236.127
15.0	1220.854	1230.540	1233.892	1230.788	1233.271
15.5	1217.253	1227.187	1230.415	1227.559	1230.415
16.0	1213.652	1223.710	1226.690	1224.331	1227.187
16.5	1209.927	1220.109	1223.089	1220.978	1223.834
17.0	1206.078	1216.260	1219.240	1217.377	1220.233
17.5	1201.980	1212.162	1215.515	1213.776	1216.508
18.0	1197.758	1208.065	1211.790	1209.927	1212.659
18.5	1193.785	1203.843	1207.816	1205.954	1208.313
19.0	1189.563	1199.621	1203.843	1201.856	1204.215
19.5	1185.465	1195.151	1199.745	1197.634	1199.869
20.0	1181.119	1190.556	1195.027	1193.536	1195.772
20.5	1176.401	1185.590	1189.936	1189.439	1191.177
21.0	1171.558	1180.250	1184.348	1185.093	1186.707
21.5	1166.591	1174.911	1179.629	1180.374	1181.989
22.0	1161.376	1169.571	1174.662	1175.656	1177.270
22.5	1155.788	1163.859	1169.075	1170.565	1172.179
23.0	1150.076	1158.148	1163.239	1165.225	1166.715
23.5	1144.116	1152.312	1157.403	1159.638	1161.252
24.0	1137.783	1146.103	1151.194	1153.802	1155.664
24.5	1131.575	1139.770	1145.110	1147.717	1149.952
25.0	1125.118	1133.437	1139.025	1141.384	1143.992
25.5	1118.289	1126.608	1132.568	1134.803	1137.908
26.0	1111.583	1120.027	1126.111	1127.974	1131.327
26.5	1104.754	1112.949	1119.282	1121.144	1124.621

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CANDELA TABULATION - (Cont.)

27.0	1097.552	1105.996	1112.328	1113.943	1117.668
27.5	1090.226	1098.794	1105.126	1106.616	1110.466
28.0	1082.527	1091.343	1097.676	1098.918	1102.891
28.5	1074.829	1083.645	1089.853	1091.095	1094.944
29.0	1066.137	1075.698	1081.906	1082.900	1086.625
29.5	1057.817	1067.502	1073.711	1074.456	1077.933
30.0	1049.249	1059.059	1065.143	1065.640	1068.868
30.5	1040.309	1050.491	1056.203	1056.327	1059.183
31.0	1031.120	1041.675	1047.138	1046.145	1049.001
31.5	1021.807	1032.734	1037.577	1035.466	1038.198
32.0	1012.494	1023.794	1028.140	1025.657	1028.513
32.5	1002.685	1014.109	1018.206	1015.102	1017.834
33.0	993.124	1004.423	1008.024	1003.554	1002.809
33.5	983.066	994.241	997.346	991.882	989.026
34.0	972.884	983.687	986.543	979.465	974.995
34.5	962.826	973.008	975.367	966.303	960.467
35.0	952.023	962.205	963.819	952.768	945.193
35.5	941.220	951.154	951.775	938.612	929.051
36.0	929.920	939.606	939.357	923.836	912.536
36.5	918.372	927.685	926.319	908.315	895.401
37.0	906.576	915.516	913.033	892.545	878.017
37.5	894.532	903.099	899.374	876.030	860.260
38.0	881.990	890.558	885.591	859.515	842.007
38.5	869.201	877.644	871.311	842.504	823.754
39.0	856.163	864.606	856.783	825.120	805.004
39.5	842.752	851.444	841.883	807.611	786.378
40.0	829.217	838.033	826.734	789.979	767.628
40.5	815.310	824.499	811.212	772.098	748.630
41.0	801.279	810.716	795.691	754.342	728.514
41.5	787.371	796.684	779.921	736.337	707.902
42.0	773.216	782.529	763.779	718.705	690.766
42.5	759.060	768.249	747.885	702.314	673.630
43.0	744.781	753.845	731.991	684.557	655.626
43.5	730.501	739.193	716.097	665.683	637.372
44.0	716.221	724.541	700.079	648.672	619.367
44.5	702.066	709.640	684.061	631.536	601.983
45.0	688.034	694.615	668.539	614.773	584.599
45.5	673.755	679.839	652.770	598.258	567.588
46.0	659.475	665.063	637.248	582.116	551.197
46.5	645.568	650.162	622.099	566.470	535.303
47.0	631.536	635.510	606.826	551.073	519.782
47.5	617.505	620.982	591.926	535.924	504.881
48.0	603.722	606.454	577.149	521.272	490.477
48.5	589.939	592.298	562.497	506.992	476.446
49.0	576.156	578.267	548.217	492.837	463.036
49.5	562.249	564.235	534.186	479.302	450.122
50.0	548.590	550.452	520.279	466.016	437.705
50.5	535.179	536.793	506.496	452.978	425.536
51.0	521.893	523.383	493.209	440.560	413.864
51.5	508.482	510.221	479.923	427.647	402.812
52.0	495.568	497.183	467.133	415.975	391.885
52.5	482.530	484.393	454.964	404.923	381.455
53.0	469.741	471.728	443.292	393.996	371.397
53.5	457.199	459.186	430.503	383.317	361.587
54.0	445.031	446.893	418.085	372.887	352.150
54.5	433.110	434.849	406.413	362.829	342.962

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55.0	421.438	422.928	395.238	353.020	333.897
55.5	409.766	411.132	384.187	343.458	325.205
56.0	398.715	399.708	373.384	334.146	316.762
56.5	387.788	388.408	362.829	325.205	308.566
57.0	376.985	377.357	352.523	316.389	300.495
57.5	366.678	366.554	342.465	307.821	292.672
58.0	356.745	356.124	332.655	299.502	285.098
58.5	346.935	345.818	322.970	291.431	277.772
59.0	337.374	335.884	313.533	283.484	270.694
59.5	327.937	326.074	304.344	275.785	263.740
60.0	318.997	316.513	295.404	268.459	257.159
60.5	310.180	307.449	286.712	261.133	250.826
61.0	301.613	298.508	278.144	254.179	244.494
61.5	293.169	289.816	269.825	247.350	238.533
62.0	285.098	281.497	261.754	240.893	232.822
62.5	277.275	273.426	253.931	234.560	227.358
63.0	269.576	265.851	246.232	228.351	222.143
63.5	261.754	258.649	238.906	222.391	217.052
64.0	252.813	250.454	231.828	216.679	212.209
64.5	247.101	243.500	224.875	211.216	207.491
65.0	241.265	236.795	218.169	205.876	203.020
65.5	234.684	230.214	211.712	200.785	198.674
66.0	228.600	223.012	205.504	195.694	194.453
66.5	222.515	216.679	199.419	190.852	190.355
67.0	216.803	210.595	193.459	186.133	186.381
67.5	211.216	204.635	187.871	181.539	182.408
68.0	205.876	198.923	182.408	177.069	178.559
68.5	200.661	193.335	177.069	172.723	174.709
69.0	195.694	187.871	171.853	168.377	170.984
69.5	190.976	182.532	166.886	164.155	167.259
70.0	186.257	177.317	161.920	160.057	163.658
70.5	181.663	172.226	157.201	155.835	159.933
71.0	177.193	167.259	152.358	151.738	156.332
71.5	172.723	162.292	147.764	147.640	152.607
72.0	168.501	157.325	143.170	143.542	148.882
72.5	164.155	152.483	138.203	139.320	145.032
73.0	159.933	147.640	133.733	135.223	141.183
73.5	155.835	142.797	129.511	130.877	137.334
74.0	151.738	137.955	125.041	126.655	133.360
74.5	146.771	133.112	120.446	122.309	129.263
75.0	142.301	128.269	116.225	117.963	125.165
75.5	137.706	123.551	112.003	113.493	120.819
76.0	132.988	118.708	106.912	109.147	116.597
76.5	128.269	113.865	102.317	104.677	112.127
77.0	123.426	109.147	97.723	100.206	107.657
77.5	118.584	104.304	93.129	95.736	103.062
78.0	113.493	99.586	88.658	91.142	98.344
78.5	108.278	94.743	84.064	86.672	93.625
79.0	103.187	90.024	79.594	82.202	88.783
79.5	98.095	85.182	74.875	77.607	83.940
80.0	92.880	80.463	70.405	73.137	79.097
80.5	87.665	75.745	65.935	68.667	74.130
81.0	82.450	71.026	61.465	64.197	69.288
81.5	77.359	66.432	56.995	59.851	64.321
82.0	72.268	61.962	52.649	55.505	59.478
82.5	67.177	57.367	48.303	51.283	54.760

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83.0	62.210	52.525	44.205	47.061	50.041
83.5	57.243	48.551	40.232	42.963	45.571
84.0	52.400	44.702	36.258	38.866	40.977
84.5	47.558	40.356	32.533	35.016	36.631
85.0	42.839	36.506	29.056	31.167	32.285
85.5	38.245	32.781	25.579	27.566	28.311
86.0	33.526	28.932	22.351	24.089	24.213
86.5	29.056	25.207	19.371	20.364	20.612
87.0	24.586	21.482	16.391	16.887	17.011
87.5	20.240	17.757	13.535	13.659	13.659
88.0	15.894	14.404	10.927	10.679	10.679
88.5	11.672	11.424	8.568	8.195	7.823
89.0	8.195	8.816	6.581	6.084	5.712
89.5	5.588	6.581	4.719	4.346	4.346
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-L180-840-MD-EM20W-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-L180-840-MD-EM20W-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-L180-840-MD-EM20W-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	468.16	N.A.	16.50
0-30	991.11	N.A.	35.00
0-40	1584.72	N.A.	56.00
0-60	2438.44	N.A.	86.20
0-80	2790.27	N.A.	98.60
0-90	2828.99	N.A.	100.00
10-90	2708.08	N.A.	95.70
20-40	1116.56	N.A.	39.50
20-50	1621.09	N.A.	57.30
40-70	1075.17	N.A.	38.00
60-80	351.83	N.A.	12.40
70-80	130.37	N.A.	4.60
80-90	38.73	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	2828.99	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	120.92
10-20	347.24
20-30	522.95
30-40	593.61
40-50	504.53
50-60	349.19
60-70	221.46
70-80	130.37
80-90	38.73
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-L180-840-MD-EM20W-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-L180-840-MD-EM20W-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

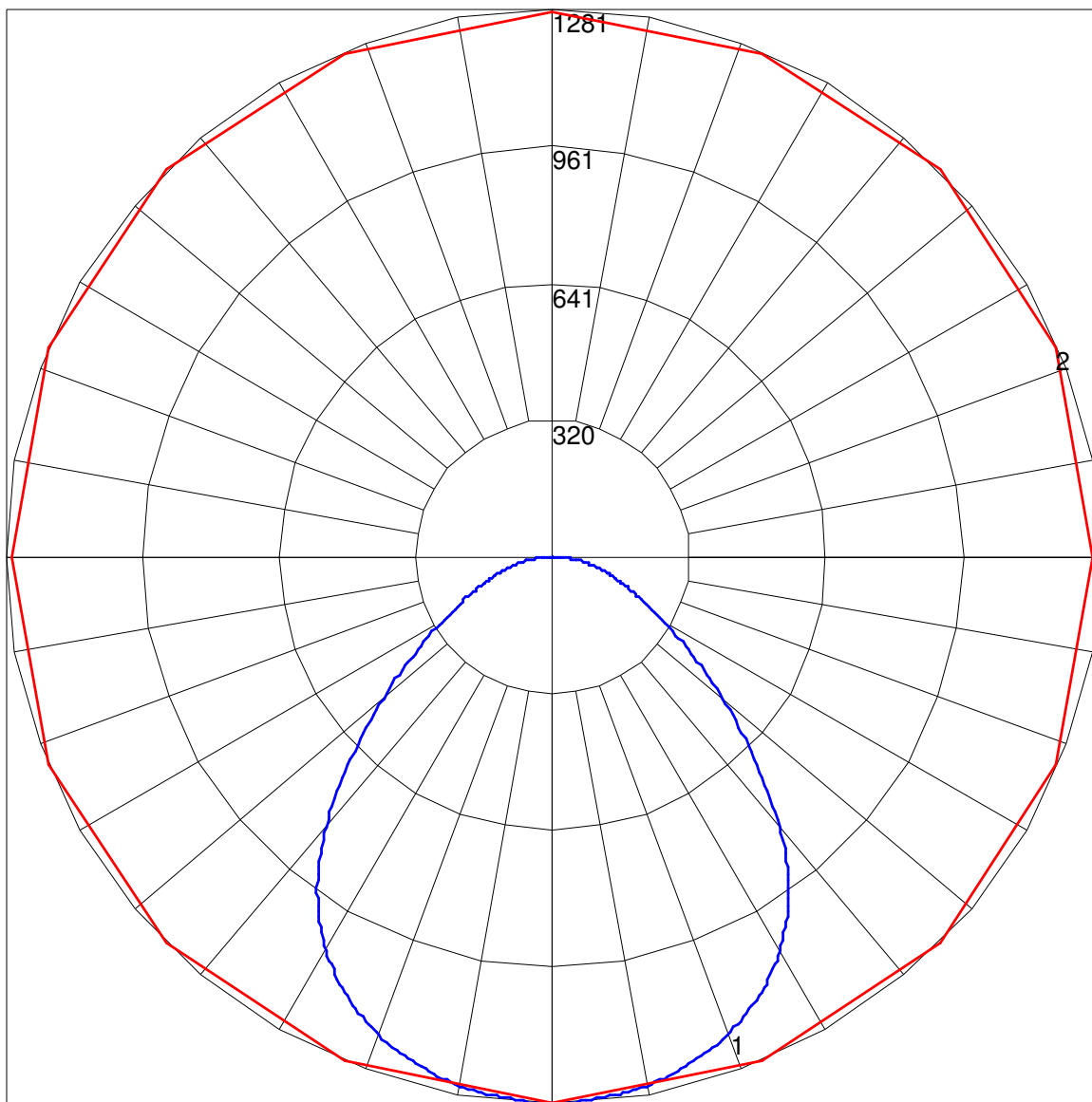
X=2H	Y=2H	16.1	17.6	16.4	17.9	18.2	14.8	16.3	15.2	16.6	16.9
	3H	17.5	18.8	17.9	19.2	19.5	16.4	17.7	16.7	18.0	18.4
	4H	18.1	19.4	18.5	19.7	20.1	17.1	18.3	17.5	18.7	19.1
	6H	18.7	19.9	19.1	20.2	20.6	17.7	18.8	18.1	19.2	19.6
	8H	18.9	20.0	19.3	20.4	20.8	17.8	18.9	18.3	19.3	19.7
	12H	19.0	20.1	19.5	20.5	20.9	18.0	19.0	18.4	19.4	19.8

UGR Viewed Endwise

4H	2H	16.4	17.7	16.8	18.0	18.4	15.4	16.6	15.8	17.0	17.4
	3H	18.1	19.1	18.5	19.5	19.9	17.2	18.2	17.6	18.6	19.0
	4H	18.9	19.8	19.3	20.2	20.7	18.0	18.9	18.4	19.4	19.8
	6H	19.6	20.4	20.0	20.8	21.3	18.7	19.5	19.2	20.0	20.4
	8H	19.8	20.6	20.3	21.0	21.5	18.9	19.7	19.4	20.2	20.6
	12H	20.0	20.7	20.5	21.2	21.7	19.1	19.8	19.6	20.3	20.7
8H	4H	19.1	19.9	19.5	20.3	20.8	18.3	19.1	18.8	19.5	20.0
	6H	19.9	20.5	20.4	21.0	21.5	19.1	19.8	19.6	20.2	20.7
	8H	20.2	20.8	20.7	21.3	21.8	19.4	20.0	19.9	20.5	21.0
	12H	20.5	21.0	21.0	21.5	22.1	19.6	20.2	20.2	20.7	21.2
12H	4H	19.1	19.8	19.6	20.3	20.7	18.3	19.0	18.8	19.5	20.0
	6H	19.9	20.5	20.5	21.0	21.5	19.2	19.8	19.7	20.2	20.8
	8H	20.3	20.8	20.8	21.3	21.9	19.5	20.0	20.0	20.5	21.1

Maximum UGR = 22.1

POLAR GRAPH



Maximum Candela = 1281.45 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.)