



IES INDOOR REPORT

PHOTOMETRIC FILENAME : MCTG-22-L28-AMB-L68-835-SAF12125-DIM-UNV-AMBER ONLY_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GEN fom UL TEST 12154994.01
 [TESTLAB] UL Verification Services Inc.
 [ISSUE DATE] 13-FWB-2020
 [MANUFAC] H E Williams Inc
 [LUMCAT] MCTG-22-L28/AMB/L68/835-SAF12125-DIM-UNV-AMBER ONLY
 [LUMINAIRE] White formed steel housing, frosted patterned plastic lens
 [MORE] enclosure
 [LAMP] HLM AMBER LEDs

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2787
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	62
Total Luminaire Watts	44.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.20
Spacing Criterion (Diagonal)	1.28
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.58 ft
Luminous Width (90-270)	1.58 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4103	4044	4070
55	3493	3446	3469
65	2784	2753	2810
75	1930	1958	2097
85	800	896	1057

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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	1179.795	1179.795	1179.795	1179.795	1179.795
0.5	1201.872	1185.976	1173.613	1172.730	1172.730
1.0	1201.872	1185.976	1173.613	1172.730	1171.847
1.5	1200.989	1185.093	1173.613	1172.730	1171.847
2.0	1200.989	1185.093	1172.730	1171.847	1170.964
2.5	1200.105	1184.210	1172.730	1171.847	1170.964
3.0	1199.222	1183.327	1171.847	1170.964	1170.081
3.5	1198.339	1182.444	1170.964	1170.081	1169.198
4.0	1197.456	1181.561	1170.081	1169.198	1168.315
4.5	1196.573	1180.678	1168.315	1168.315	1167.432
5.0	1194.807	1179.795	1167.432	1166.548	1166.548
5.5	1193.924	1178.028	1166.548	1165.665	1165.665
6.0	1192.158	1176.262	1164.782	1163.899	1163.899
6.5	1190.392	1174.496	1163.016	1163.016	1162.133
7.0	1188.625	1172.730	1161.250	1161.250	1160.367
7.5	1185.976	1170.964	1159.484	1159.484	1158.601
8.0	1184.210	1169.198	1157.718	1156.835	1156.835
8.5	1181.561	1166.548	1155.068	1155.068	1155.068
9.0	1178.912	1163.899	1153.302	1153.302	1152.419
9.5	1177.145	1161.250	1150.653	1150.653	1150.653
10.0	1174.496	1158.601	1148.004	1148.004	1148.004
10.5	1170.964	1155.951	1146.238	1145.355	1145.355
11.0	1168.315	1153.302	1142.705	1142.705	1142.705
11.5	1164.782	1149.770	1140.056	1140.056	1140.056
12.0	1161.250	1147.121	1137.407	1137.407	1137.407
12.5	1157.718	1143.588	1133.874	1133.874	1134.758
13.0	1154.185	1140.056	1130.342	1131.225	1131.225
13.5	1150.653	1135.641	1126.810	1127.693	1127.693
14.0	1146.238	1132.108	1123.278	1124.161	1125.044
14.5	1142.705	1128.576	1119.745	1120.628	1121.511
15.0	1138.290	1124.161	1115.330	1117.096	1117.979
15.5	1133.874	1119.745	1111.798	1112.681	1113.564
16.0	1129.459	1115.330	1107.382	1109.148	1110.031
16.5	1125.044	1110.914	1102.967	1104.733	1105.616
17.0	1119.745	1106.499	1098.551	1100.317	1102.084
17.5	1115.330	1102.084	1093.253	1095.902	1096.785
18.0	1110.914	1096.785	1088.837	1091.487	1092.370
18.5	1105.616	1091.487	1083.539	1086.188	1087.954
19.0	1100.317	1087.071	1078.240	1080.890	1082.656
19.5	1095.019	1081.773	1073.825	1076.474	1078.240
20.0	1089.721	1075.591	1068.527	1071.176	1072.942
20.5	1084.422	1070.293	1063.228	1065.877	1067.644
21.0	1078.240	1064.994	1057.047	1059.696	1062.345
21.5	1072.059	1059.696	1051.748	1054.397	1056.163
22.0	1066.760	1053.514	1046.450	1048.216	1050.865
22.5	1060.579	1047.333	1040.268	1042.917	1044.683
23.0	1054.397	1041.151	1034.086	1036.736	1039.385
23.5	1048.216	1034.970	1028.788	1030.554	1033.203
24.0	1041.151	1028.788	1021.723	1024.373	1027.022
24.5	1034.970	1022.606	1015.542	1018.191	1020.840
25.0	1027.905	1016.425	1009.360	1012.009	1014.659
25.5	1020.840	1009.360	1003.179	1005.828	1007.594
26.0	1013.776	1003.179	996.114	998.763	1001.413
26.5	1006.711	996.114	989.049	991.699	994.348

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27.0	999.646	989.049	981.985	984.634	987.283
27.5	992.582	981.985	974.920	977.569	980.219
28.0	985.517	974.920	967.855	970.505	973.154
28.5	977.569	967.855	960.791	963.440	966.089
29.0	969.622	959.908	952.843	956.375	959.025
29.5	961.674	952.843	945.778	948.428	951.077
30.0	954.609	944.895	938.714	941.363	944.012
30.5	946.662	936.948	930.766	933.415	936.065
31.0	938.714	929.000	922.818	925.468	928.117
31.5	930.766	921.052	914.871	917.520	920.169
32.0	922.818	913.105	906.923	909.572	913.105
32.5	914.871	904.274	898.975	901.625	904.274
33.0	906.040	896.326	891.028	893.677	896.326
33.5	898.092	888.378	882.727	885.729	888.378
34.0	890.144	879.548	874.337	876.987	880.077
34.5	881.049	870.982	865.860	868.509	871.688
35.0	872.218	862.151	857.206	859.943	863.211
35.5	863.299	853.320	848.375	851.289	854.556
36.0	854.115	844.401	839.456	842.370	845.814
36.5	844.754	835.394	830.537	833.539	836.895
37.0	835.217	826.298	821.617	824.620	827.711
37.5	825.591	817.114	812.433	815.524	818.527
38.0	815.789	807.753	803.249	806.252	809.166
38.5	805.810	798.304	793.977	796.980	799.717
39.0	795.920	788.767	784.440	787.442	790.092
39.5	785.941	779.053	774.903	777.817	780.378
40.0	775.962	769.516	765.365	768.103	770.929
40.5	766.072	759.714	755.740	758.301	761.127
41.0	756.093	750.000	746.114	748.498	751.413
41.5	746.026	740.109	736.400	738.608	741.346
42.0	736.135	730.219	726.598	728.717	731.278
42.5	726.068	720.063	716.619	718.739	721.123
43.0	716.001	709.908	706.640	708.583	711.056
43.5	706.022	700.017	696.573	698.604	701.077
44.0	695.867	690.039	686.418	688.272	690.833
44.5	686.065	679.971	676.439	678.117	680.766
45.0	675.998	669.904	666.372	667.873	670.611
45.5	665.930	659.661	656.217	657.630	660.367
46.0	655.775	649.329	645.973	647.298	649.858
46.5	645.531	638.997	635.641	636.965	639.438
47.0	634.934	628.576	625.221	626.633	629.018
47.5	624.426	618.244	614.712	616.301	618.597
48.0	613.740	607.912	604.292	605.793	608.265
48.5	602.967	597.492	593.871	595.549	597.845
49.0	592.193	586.983	583.539	585.217	587.336
49.5	581.331	576.563	573.207	574.797	576.828
50.0	570.646	566.054	562.875	564.465	566.319
50.5	559.873	555.546	552.543	554.133	555.810
51.0	549.187	545.037	542.299	543.801	545.390
51.5	538.502	534.705	531.879	533.380	534.970
52.0	527.993	524.284	521.459	522.960	524.814
52.5	517.396	514.041	511.127	512.628	514.571
53.0	507.064	503.797	500.883	502.296	504.327
53.5	496.997	493.642	490.816	492.140	494.083
54.0	486.930	483.398	480.837	481.985	483.839
54.5	476.775	473.154	470.770	472.006	473.772

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55.0	466.884	462.999	460.614	461.851	463.705
55.5	456.994	453.020	450.636	451.695	453.726
56.0	447.192	443.041	440.657	441.805	443.836
56.5	437.389	433.151	430.766	431.914	433.945
57.0	427.676	423.260	420.788	422.112	424.232
57.5	417.785	413.370	410.897	412.310	414.694
58.0	407.895	403.567	401.183	402.596	404.804
58.5	398.004	393.765	391.558	392.971	395.002
59.0	388.202	383.875	381.932	383.433	385.464
59.5	378.400	374.161	372.218	373.896	376.015
60.0	368.598	364.447	362.681	364.447	366.390
60.5	358.972	354.821	353.055	355.086	357.029
61.0	349.170	345.284	343.695	345.814	347.845
61.5	339.456	335.924	334.334	336.630	338.661
62.0	329.654	326.563	325.062	327.534	329.477
62.5	319.940	317.379	315.878	318.439	320.381
63.0	310.491	308.107	306.782	309.519	311.286
63.5	301.307	299.011	297.863	300.600	302.543
64.0	292.299	289.738	288.855	291.770	293.801
64.5	283.292	280.731	279.936	283.115	285.235
65.0	274.196	271.989	271.106	274.461	276.757
65.5	265.365	263.423	262.540	265.984	268.280
66.0	256.800	254.945	253.974	257.594	259.979
66.5	248.234	246.379	245.673	249.293	251.766
67.0	239.844	237.902	237.284	241.169	243.553
67.5	231.544	229.512	228.983	233.133	235.517
68.0	223.154	221.211	220.858	225.185	227.658
68.5	215.030	212.999	212.911	217.326	219.799
69.0	207.082	204.875	204.963	209.467	212.116
69.5	199.223	196.927	197.103	201.784	204.345
70.0	191.275	189.067	189.332	194.189	196.838
70.5	183.327	181.385	181.738	186.595	189.509
71.0	175.203	173.790	174.320	179.089	182.091
71.5	167.344	166.107	166.902	171.671	174.850
72.0	159.573	158.601	159.573	164.518	167.609
72.5	152.155	151.095	152.331	157.277	160.456
73.0	144.737	143.854	145.267	150.212	153.391
73.5	137.407	136.701	138.379	143.236	146.415
74.0	130.343	129.901	131.491	136.436	139.615
74.5	123.278	123.101	124.691	129.636	132.992
75.0	116.390	116.478	118.068	123.013	126.457
75.5	109.502	109.943	111.621	116.567	120.011
76.0	102.967	103.585	105.263	110.208	113.652
76.5	96.697	97.227	99.082	104.027	107.118
77.0	90.427	91.046	93.077	97.934	101.024
77.5	84.511	85.041	87.160	91.929	95.019
78.0	78.682	79.212	81.332	86.012	89.191
78.5	73.119	73.649	75.768	80.360	83.363
79.0	67.732	68.262	70.381	74.709	77.623
79.5	62.522	62.875	64.995	69.322	72.148
80.0	57.400	57.665	59.696	64.023	66.849
80.5	52.455	52.720	54.663	58.990	61.639
81.0	47.510	47.775	49.894	54.133	56.340
81.5	42.918	43.094	45.214	49.276	51.219
82.0	38.502	38.591	40.710	44.596	46.362
82.5	34.352	34.352	36.383	40.180	41.858

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MCTG-22-L28-AMB-L68-835-SAF12125-DIM-UNV-AMBER ONLY_.IES****CANDELA TABULATION - (Cont.)**

83.0	30.466	30.466	32.409	35.853	37.443
83.5	26.581	26.757	28.435	31.703	33.115
84.0	22.872	23.313	24.903	27.905	29.053
84.5	19.428	19.958	21.371	24.285	25.168
85.0	16.249	16.867	18.191	20.841	21.459
85.5	13.423	14.041	15.277	17.573	18.015
86.0	10.862	11.480	12.628	14.483	14.924
86.5	8.566	9.272	10.155	11.745	11.922
87.0	6.535	7.241	8.036	9.272	9.449
87.5	4.769	5.387	6.182	6.976	7.241
88.0	3.356	3.886	4.504	5.122	5.210
88.5	2.208	2.649	3.091	3.532	3.621
89.0	1.413	1.766	2.031	2.296	2.384
89.5	0.883	1.060	1.236	1.501	1.590
90.0	0.442	0.618	0.795	0.971	0.883
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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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 : MCTG-22-L28-AMB-L68-835-SAF12125-DIM-UNV-AMBER ONLY_.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 : MCTG-22-L28-AMB-L68-835-SAF12125-DIM-UNV-AMBER ONLY_.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 : MCTG-22-L28-AMB-L68-835-SAF12125-DIM-UNV-AMBER ONLY_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	427.32	N.A.	15.30
0-30	894.13	N.A.	32.10
0-40	1432.01	N.A.	51.40
0-60	2361.55	N.A.	84.70
0-80	2761.82	N.A.	99.10
0-90	2786.56	N.A.	100.00
10-90	2675.15	N.A.	96.00
20-40	1004.69	N.A.	36.10
20-50	1520.19	N.A.	54.60
40-70	1201.35	N.A.	43.10
60-80	400.28	N.A.	14.40
70-80	128.46	N.A.	4.60
80-90	24.74	N.A.	0.90
90-110	0.02	N.A.	0.00
90-120	0.02	N.A.	0.00
90-130	0.02	N.A.	0.00
90-150	0.02	N.A.	0.00
90-180	0.02	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	2786.58	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	111.41
10-20	315.91
20-30	466.81
30-40	537.88
40-50	515.50
50-60	414.04
60-70	271.81
70-80	128.46
80-90	24.74
90-100	0.02
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 : MCTG-22-L28-AMB-L68-835-SAF12125-DIM-UNV-AMBER ONLY_.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	115	115	115	115	112	112	112	112	107	107	107	103	103	103	98	98	98	96
1	106	102	98	95	103	100	96	93	96	93	90	92	90	87	88	87	85	83
2	97	90	84	79	95	88	82	78	85	80	76	81	78	74	79	75	73	71
3	89	80	72	66	87	78	71	66	75	69	65	73	68	64	70	66	62	60
4	82	71	63	57	80	70	62	57	67	61	56	65	60	55	63	58	54	52
5	76	64	56	50	74	63	55	49	61	54	49	59	53	48	57	52	48	46
6	70	58	50	44	68	57	49	43	55	48	43	54	47	43	52	47	42	40
7	65	53	44	39	63	52	44	39	50	43	38	49	43	38	48	42	38	36
8	61	48	40	35	59	47	40	35	46	39	35	45	39	34	44	38	34	32
9	57	44	37	31	55	44	36	31	43	36	31	42	35	31	41	35	31	29
10	53	41	34	29	52	40	33	29	40	33	28	39	33	28	38	32	28	27

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MCTG-22-L28-AMB-L68-835-SAF12125-DIM-UNV-AMBER ONLY_.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

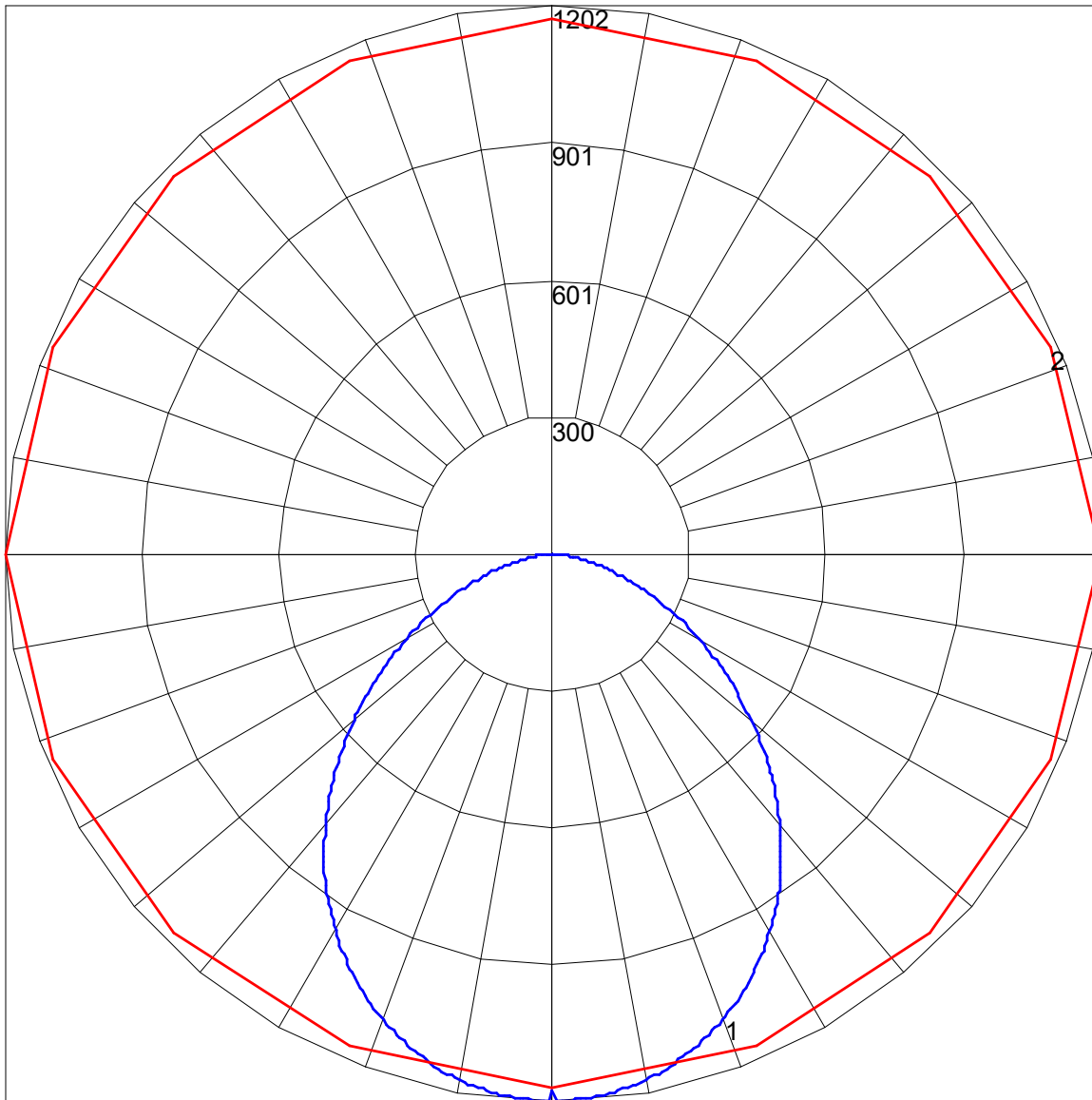
X=2H	Y=2H	16.2	17.7	16.5	18.0	18.4	UGR Viewed Endwise	16.2	17.7	16.5	18.0	18.3
	3H	17.5	18.9	17.9	19.2	19.6		17.5	18.9	17.9	19.3	19.6
	4H	17.9	19.2	18.3	19.6	19.9		18.0	19.3	18.4	19.7	20.0
	6H	18.1	19.3	18.5	19.7	20.1		18.3	19.5	18.7	19.8	20.2
	8H	18.2	19.3	18.6	19.7	20.1		18.3	19.5	18.8	19.9	20.3
	12H	18.2	19.3	18.6	19.6	20.1		18.4	19.5	18.8	19.8	20.3
4H	2H	16.7	18.0	17.1	18.3	18.7		16.6	17.9	17.0	18.3	18.7
	3H	18.2	19.3	18.6	19.7	20.1		18.2	19.3	18.6	19.7	20.1
	4H	18.7	19.6	19.1	20.1	20.5		18.8	19.7	19.2	20.2	20.6
	6H	19.0	19.8	19.4	20.3	20.7		19.1	20.0	19.6	20.4	20.9
	8H	19.0	19.8	19.5	20.3	20.7		19.2	20.0	19.7	20.5	20.9
	12H	19.0	19.8	19.5	20.2	20.7		19.3	20.0	19.8	20.5	20.9
8H	4H	18.8	19.6	19.3	20.1	20.5		18.9	19.7	19.4	20.2	20.6
	6H	19.2	19.9	19.7	20.4	20.8		19.4	20.0	19.9	20.5	21.0
	8H	19.3	19.9	19.8	20.4	20.9		19.5	20.1	20.0	20.6	21.1
	12H	19.3	19.9	19.9	20.3	20.9		19.6	20.1	20.1	20.6	21.2
12H	4H	18.8	19.6	19.3	20.0	20.5		18.9	19.6	19.4	20.1	20.6
	6H	19.2	19.8	19.7	20.3	20.8		19.4	20.0	19.9	20.4	21.0
	8H	19.3	19.9	19.8	20.3	20.9		19.5	20.1	20.1	20.6	21.1

Maximum UGR = 21.2

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MCTG-22-L28-AMB-L68-835-SAF12125-DIM-UNV-AMBER ONLY_.IES

POLAR GRAPH



Maximum Candela = 1201.872 Located At Horizontal Angle = 0, Vertical Angle = .5

1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)

2 - Horizontal Cone Through Vertical Angle (.5) (Through Max. Cd.)