



IES INDOOR REPORT

PHOTOMETRIC FILENAME : MCTG-22-L12-RED-L36-835-SAF12125-DIM-UNV-RED 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] 17-FEB-2020

[MANUFAC] H E Williams Inc

[LUMCAT] MCTG-22-L12/RED/L36/835-SAF12125-DIM-UNV-RED ONLY

[LUMINAIRE] White formed steel housing, frosted patterned plastic lens

[MORE] enclosure

[LAMP] HLM RED LEDs

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1211
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	40
Total Luminaire Watts	30.3
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	1783	1757	1768
55	1518	1497	1508
65	1210	1196	1221
75	839	851	911
85	348	389	459

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MCTG-22-L12-RED-L36-835-SAF12125-DIM-UNV-RED ONLY_.IES****CANDELA TABULATION**

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	512.641	512.641	512.641	512.641	512.641
0.5	522.234	515.327	509.955	509.572	509.572
1.0	522.234	515.327	509.955	509.572	509.188
1.5	521.850	514.944	509.955	509.572	509.188
2.0	521.850	514.944	509.572	509.188	508.804
2.5	521.467	514.560	509.572	509.188	508.804
3.0	521.083	514.176	509.188	508.804	508.420
3.5	520.699	513.792	508.804	508.420	508.037
4.0	520.316	513.409	508.420	508.037	507.653
4.5	519.932	513.025	507.653	507.653	507.269
5.0	519.164	512.641	507.269	506.886	506.886
5.5	518.781	511.874	506.886	506.502	506.502
6.0	518.013	511.106	506.118	505.734	505.734
6.5	517.246	510.339	505.351	505.351	504.967
7.0	516.478	509.572	504.583	504.583	504.200
7.5	515.327	508.804	503.816	503.816	503.432
8.0	514.560	508.037	503.048	502.665	502.665
8.5	513.409	506.886	501.897	501.897	501.897
9.0	512.258	505.734	501.130	501.130	500.746
9.5	511.490	504.583	499.979	499.979	499.979
10.0	510.339	503.432	498.828	498.828	498.828
10.5	508.804	502.281	498.060	497.676	497.676
11.0	507.653	501.130	496.525	496.525	496.525
11.5	506.118	499.595	495.374	495.374	495.374
12.0	504.583	498.444	494.223	494.223	494.223
12.5	503.048	496.909	492.688	492.688	493.072
13.0	501.514	495.374	491.153	491.537	491.537
13.5	499.979	493.456	489.618	490.002	490.002
14.0	498.060	491.921	488.084	488.467	488.851
14.5	496.525	490.386	486.549	486.932	487.316
15.0	494.607	488.467	484.630	485.398	485.781
15.5	492.688	486.549	483.095	483.479	483.863
16.0	490.770	484.630	481.177	481.944	482.328
16.5	488.851	482.712	479.258	480.026	480.409
17.0	486.549	480.793	477.340	478.107	478.874
17.5	484.630	478.874	475.037	476.188	476.572
18.0	482.712	476.572	473.119	474.270	474.654
18.5	480.409	474.270	470.816	471.968	472.735
19.0	478.107	472.351	468.514	469.665	470.433
19.5	475.805	470.049	466.596	467.747	468.514
20.0	473.502	467.363	464.293	465.444	466.212
20.5	471.200	465.061	461.991	463.142	463.910
21.0	468.514	462.758	459.305	460.456	461.607
21.5	465.828	460.456	457.003	458.154	458.921
22.0	463.526	457.770	454.701	455.468	456.619
22.5	460.840	455.084	452.015	453.166	453.933
23.0	458.154	452.398	449.329	450.480	451.631
23.5	455.468	449.712	447.026	447.794	448.945
24.0	452.398	447.026	443.957	445.108	446.259
24.5	449.712	444.340	441.271	442.422	443.573
25.0	446.643	441.654	438.585	439.736	440.887
25.5	443.573	438.585	435.899	437.050	437.817
26.0	440.503	435.899	432.829	433.980	435.131
26.5	437.433	432.829	429.759	430.910	432.061

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MCTG-22-L12-RED-L36-835-SAF12125-DIM-UNV-RED ONLY_.IES****CANDELA TABULATION - (Cont.)**

27.0	434.364	429.759	426.689	427.841	428.992
27.5	431.294	426.689	423.620	424.771	425.922
28.0	428.224	423.620	420.550	421.701	422.852
28.5	424.771	420.550	417.480	418.631	419.783
29.0	421.317	417.097	414.027	415.562	416.713
29.5	417.864	414.027	410.957	412.108	413.259
30.0	414.794	410.573	407.887	409.039	410.190
30.5	411.341	407.120	404.434	405.585	406.736
31.0	407.887	403.667	400.981	402.132	403.283
31.5	404.434	400.213	397.527	398.678	399.829
32.0	400.981	396.760	394.074	395.225	396.760
32.5	397.527	392.923	390.620	391.771	392.923
33.0	393.690	389.469	387.167	388.318	389.469
33.5	390.237	386.016	383.560	384.865	386.016
34.0	386.783	382.179	379.915	381.066	382.409
34.5	382.831	378.457	376.231	377.382	378.764
35.0	378.994	374.620	372.471	373.660	375.080
35.5	375.118	370.782	368.634	369.900	371.320
36.0	371.128	366.907	364.758	366.024	367.521
36.5	367.060	362.993	360.883	362.187	363.645
37.0	362.916	359.041	357.007	358.312	359.655
37.5	358.734	355.050	353.016	354.359	355.664
38.0	354.475	350.983	349.026	350.330	351.597
38.5	350.139	346.877	344.997	346.301	347.491
39.0	345.841	342.733	340.853	342.157	343.308
39.5	341.505	338.512	336.709	337.975	339.088
40.0	337.169	334.368	332.565	333.754	334.982
40.5	332.871	330.109	328.382	329.495	330.723
41.0	328.536	325.888	324.200	325.236	326.502
41.5	324.161	321.590	319.979	320.938	322.127
42.0	319.864	317.293	315.719	316.640	317.753
42.5	315.489	312.880	311.384	312.304	313.340
43.0	311.115	308.467	307.048	307.892	308.966
43.5	306.779	304.170	302.673	303.556	304.630
44.0	302.366	299.834	298.261	299.066	300.179
44.5	298.107	295.459	293.925	294.654	295.805
45.0	293.733	291.085	289.550	290.203	291.392
45.5	289.358	286.634	285.138	285.751	286.941
46.0	284.946	282.145	280.686	281.262	282.375
46.5	280.495	277.655	276.197	276.773	277.847
47.0	275.890	273.127	271.669	272.283	273.319
47.5	271.324	268.638	267.103	267.794	268.791
48.0	266.681	264.148	262.575	263.227	264.302
48.5	262.000	259.621	258.047	258.776	259.774
49.0	257.318	255.054	253.558	254.287	255.208
49.5	252.599	250.527	249.068	249.759	250.642
50.0	247.956	245.960	244.579	245.270	246.075
50.5	243.274	241.394	240.090	240.780	241.509
51.0	238.631	236.828	235.638	236.291	236.981
51.5	233.989	232.339	231.111	231.763	232.454
52.0	229.422	227.811	226.583	227.235	228.041
52.5	224.818	223.360	222.093	222.746	223.590
53.0	220.328	218.909	217.642	218.256	219.139
53.5	215.954	214.496	213.268	213.844	214.688
54.0	211.580	210.045	208.932	209.431	210.237
54.5	207.167	205.594	204.558	205.095	205.862

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55.0	202.869	201.181	200.145	200.682	201.488
55.5	198.572	196.845	195.809	196.269	197.152
56.0	194.313	192.509	191.473	191.972	192.854
56.5	190.053	188.211	187.175	187.674	188.557
57.0	185.832	183.914	182.839	183.415	184.336
57.5	181.535	179.616	178.542	179.156	180.192
58.0	177.237	175.357	174.321	174.935	175.894
58.5	172.940	171.098	170.139	170.753	171.635
59.0	168.680	166.800	165.956	166.608	167.491
59.5	164.421	162.579	161.735	162.464	163.385
60.0	160.162	158.359	157.591	158.359	159.203
60.5	155.980	154.176	153.409	154.291	155.135
61.0	151.720	150.032	149.341	150.262	151.145
61.5	147.499	145.965	145.274	146.272	147.154
62.0	143.240	141.897	141.245	142.319	143.164
62.5	139.019	137.907	137.254	138.367	139.211
63.0	134.914	133.878	133.302	134.492	135.259
63.5	130.923	129.925	129.427	130.616	131.460
64.0	127.009	125.896	125.513	126.779	127.661
64.5	123.095	121.983	121.637	123.019	123.939
65.0	119.143	118.184	117.800	119.258	120.256
65.5	115.306	114.462	114.078	115.575	116.572
66.0	111.584	110.778	110.356	111.929	112.965
66.5	107.862	107.056	106.749	108.322	109.397
67.0	104.217	103.372	103.104	104.792	105.828
67.5	100.610	99.727	99.497	101.300	102.336
68.0	96.964	96.120	95.967	97.847	98.921
68.5	93.434	92.552	92.513	94.432	95.506
69.0	89.981	89.022	89.060	91.017	92.168
69.5	86.566	85.568	85.645	87.679	88.791
70.0	83.112	82.153	82.268	84.379	85.530
70.5	79.659	78.815	78.968	81.079	82.345
71.0	76.129	75.515	75.745	77.817	79.122
71.5	72.714	72.177	72.522	74.594	75.975
72.0	69.337	68.915	69.337	71.486	72.829
72.5	66.114	65.653	66.191	68.339	69.721
73.0	62.891	62.507	63.121	65.270	66.651
73.5	59.706	59.399	60.128	62.238	63.620
74.0	56.636	56.444	57.135	59.284	60.665
74.5	53.566	53.490	54.180	56.329	57.787
75.0	50.573	50.612	51.302	53.451	54.948
75.5	47.580	47.772	48.501	50.650	52.147
76.0	44.741	45.010	45.739	47.887	49.384
76.5	42.017	42.247	43.053	45.201	46.544
77.0	39.292	39.561	40.443	42.554	43.897
77.5	36.721	36.952	37.873	39.945	41.288
78.0	34.189	34.419	35.340	37.374	38.755
78.5	31.771	32.002	32.923	34.918	36.223
79.0	29.431	29.661	30.582	32.462	33.728
79.5	27.167	27.320	28.241	30.122	31.349
80.0	24.941	25.056	25.939	27.819	29.047
80.5	22.793	22.908	23.752	25.632	26.783
81.0	20.644	20.759	21.680	23.522	24.481
81.5	18.648	18.725	19.646	21.411	22.255
82.0	16.730	16.768	17.689	19.378	20.145
82.5	14.926	14.926	15.809	17.459	18.188

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MCTG-22-L12-RED-L36-835-SAF12125-DIM-UNV-RED ONLY_.IES****CANDELA TABULATION - (Cont.)**

83.0	13.238	13.238	14.082	15.579	16.269
83.5	11.550	11.627	12.356	13.775	14.389
84.0	9.938	10.130	10.821	12.125	12.624
84.5	8.442	8.672	9.286	10.552	10.936
85.0	7.060	7.329	7.904	9.056	9.324
85.5	5.832	6.101	6.638	7.636	7.828
86.0	4.720	4.988	5.487	6.293	6.485
86.5	3.722	4.029	4.413	5.103	5.180
87.0	2.839	3.146	3.492	4.029	4.106
87.5	2.072	2.341	2.686	3.031	3.146
88.0	1.458	1.688	1.957	2.226	2.264
88.5	0.959	1.151	1.343	1.535	1.573
89.0	0.614	0.767	0.883	0.998	1.036
89.5	0.384	0.460	0.537	0.652	0.691
90.0	0.192	0.269	0.345	0.422	0.384
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-L12-RED-L36-835-SAF12125-DIM-UNV-RED 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-L12-RED-L36-835-SAF12125-DIM-UNV-RED 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-L12-RED-L36-835-SAF12125-DIM-UNV-RED ONLY_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	185.68	N.A.	15.30
0-30	388.52	N.A.	32.10
0-40	622.23	N.A.	51.40
0-60	1026.13	N.A.	84.70
0-80	1200.06	N.A.	99.10
0-90	1210.81	N.A.	100.00
10-90	1162.4	N.A.	96.00
20-40	436.56	N.A.	36.10
20-50	660.55	N.A.	54.60
40-70	522.01	N.A.	43.10
60-80	173.93	N.A.	14.40
70-80	55.82	N.A.	4.60
80-90	10.75	N.A.	0.90
90-110	0.01	N.A.	0.00
90-120	0.01	N.A.	0.00
90-130	0.01	N.A.	0.00
90-150	0.01	N.A.	0.00
90-180	0.01	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	1210.82	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	48.41
10-20	137.27
20-30	202.84
30-40	233.72
40-50	223.99
50-60	179.91
60-70	118.11
70-80	55.82
80-90	10.75
90-100	0.01
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-L12-RED-L36-835-SAF12125-DIM-UNV-RED 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	238	238	238	238	233	233	233	233	222	222	222	213	213	213	204	204	204	200
1	220	211	204	197	215	207	200	193	198	193	187	191	186	182	184	180	176	172
2	202	186	174	163	196	183	171	161	176	166	158	169	161	154	163	157	151	147
3	185	165	150	138	180	162	148	137	156	144	134	151	141	132	146	137	130	126
4	170	147	131	118	166	145	129	117	140	127	116	135	124	114	131	121	113	109
5	157	133	116	103	153	130	114	102	126	112	101	122	110	100	119	108	99	95
6	145	120	103	91	142	118	102	90	115	100	89	111	98	89	108	97	88	84
7	135	109	92	81	132	108	92	80	105	90	80	102	89	79	99	87	79	75
8	126	100	84	72	123	99	83	72	96	82	72	94	81	71	91	80	71	67
9	118	92	76	65	115	91	76	65	89	75	65	86	74	65	84	73	64	61
10	111	85	70	60	108	84	69	59	82	69	59	80	68	59	78	67	59	55

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MCTG-22-L12-RED-L36-835-SAF12125-DIM-UNV-RED 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	10.8	12.3	11.1	12.6	13.0	10.8	12.3	11.1	12.6	12.9
	3H	12.1	13.5	12.5	13.8	14.2	12.1	13.5	12.5	13.9	14.2
	4H	12.5	13.8	12.9	14.2	14.5	12.6	13.9	13.0	14.3	14.6
	6H	12.7	13.9	13.1	14.3	14.7	12.9	14.1	13.3	14.5	14.8
	8H	12.8	13.9	13.2	14.3	14.7	12.9	14.1	13.4	14.5	14.9
	12H	12.8	13.9	13.2	14.2	14.7	13.0	14.1	13.4	14.4	14.9

UGR Viewed Endwise

4H	2H	11.3	12.6	11.7	12.9	13.3	11.2	12.5	11.6	12.9	13.3
	3H	12.8	13.9	13.2	14.3	14.7	12.8	13.9	13.2	14.3	14.7
	4H	13.3	14.2	13.7	14.7	15.1	13.4	14.3	13.8	14.8	15.2
	6H	13.6	14.4	14.0	14.9	15.3	13.7	14.6	14.2	15.0	15.5
	8H	13.6	14.4	14.1	14.9	15.3	13.8	14.6	14.3	15.1	15.5
	12H	13.7	14.4	14.1	14.8	15.3	13.9	14.6	14.4	15.1	15.5

8H	4H	13.4	14.2	13.9	14.7	15.1	13.5	14.3	14.0	14.8	15.2
	6H	13.8	14.5	14.3	15.0	15.4	14.0	14.6	14.5	15.1	15.6
	8H	13.9	14.5	14.4	15.0	15.5	14.1	14.7	14.6	15.2	15.7
	12H	13.9	14.5	14.5	15.0	15.5	14.2	14.7	14.7	15.2	15.8

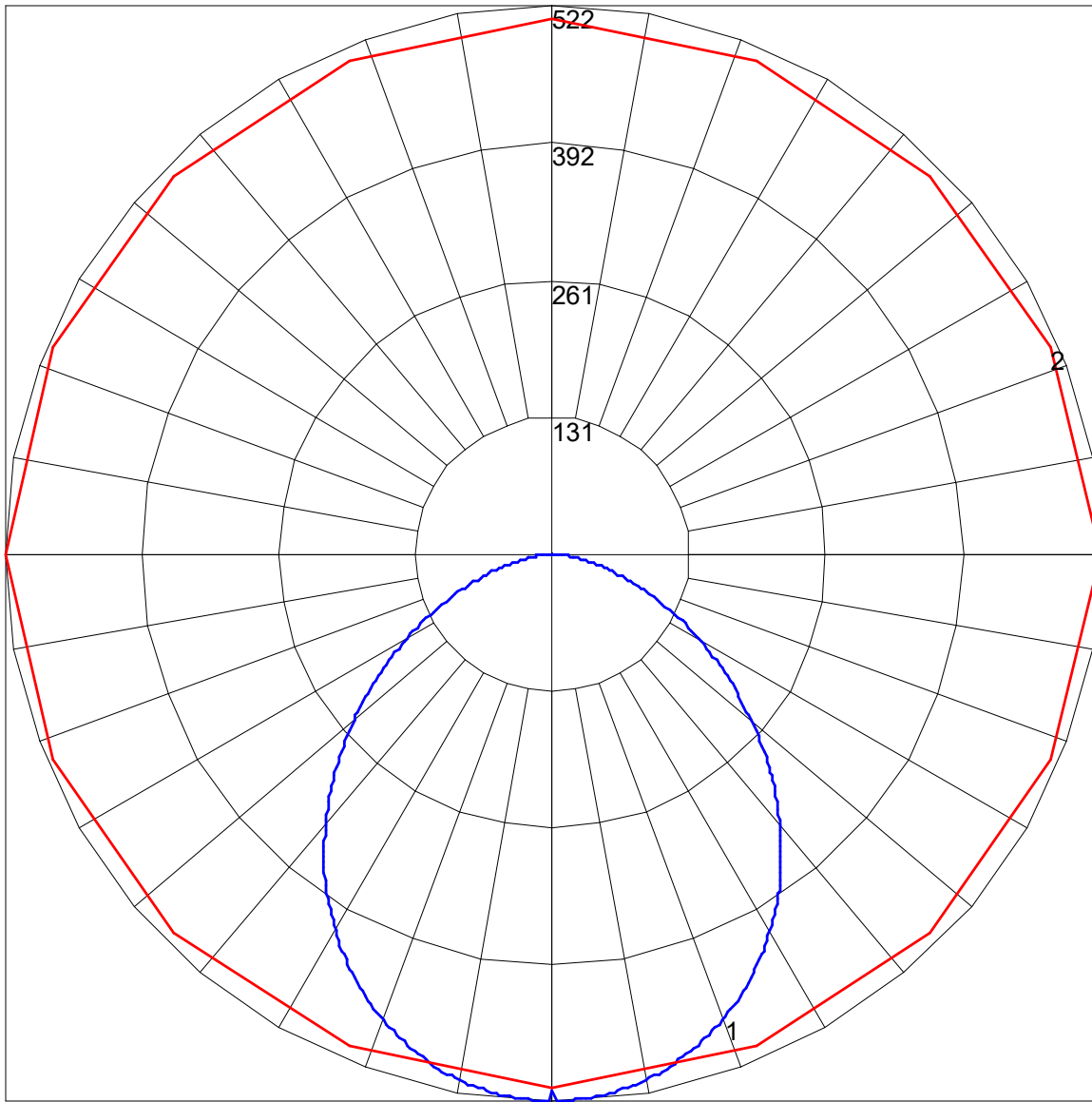
12H	4H	13.5	14.2	13.9	14.6	15.1	13.5	14.2	14.0	14.7	15.2
	6H	13.8	14.4	14.3	14.9	15.4	14.0	14.6	14.5	15.0	15.6
	8H	13.9	14.5	14.4	14.9	15.5	14.1	14.7	14.7	15.2	15.7

Maximum UGR = 15.8

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MCTG-22-L12-RED-L36-835-SAF12125-DIM-UNV-RED ONLY_.IES

POLAR GRAPH



Maximum Candela = 522.234 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.)