



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : MCTG-22-L6-RED-L68-835-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-L6/RED/L68/835-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	605
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	39
Total Luminaire Watts	15.7
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	891	878	883
55	758	748	753
65	604	598	610
75	419	425	455
85	174	194	229

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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	256.109	256.109	256.109	256.109	256.109
0.5	260.901	257.451	254.767	254.575	254.575
1.0	260.901	257.451	254.767	254.575	254.384
1.5	260.710	257.259	254.767	254.575	254.384
2.0	260.710	257.259	254.575	254.384	254.192
2.5	260.518	257.067	254.575	254.384	254.192
3.0	260.326	256.876	254.384	254.192	254.000
3.5	260.135	256.684	254.192	254.000	253.809
4.0	259.943	256.492	254.000	253.809	253.617
4.5	259.751	256.301	253.617	253.617	253.425
5.0	259.368	256.109	253.425	253.233	253.233
5.5	259.176	255.726	253.233	253.042	253.042
6.0	258.793	255.342	252.850	252.658	252.658
6.5	258.409	254.959	252.467	252.467	252.275
7.0	258.026	254.575	252.083	252.083	251.892
7.5	257.451	254.192	251.700	251.700	251.508
8.0	257.067	253.809	251.316	251.125	251.125
8.5	256.492	253.233	250.741	250.741	250.741
9.0	255.917	252.658	250.358	250.358	250.166
9.5	255.534	252.083	249.783	249.783	249.783
10.0	254.959	251.508	249.208	249.208	249.208
10.5	254.192	250.933	248.824	248.633	248.633
11.0	253.617	250.358	248.058	248.058	248.058
11.5	252.850	249.591	247.483	247.483	247.483
12.0	252.083	249.016	246.907	246.907	246.907
12.5	251.316	248.249	246.141	246.141	246.332
13.0	250.550	247.483	245.374	245.566	245.566
13.5	249.783	246.524	244.607	244.799	244.799
14.0	248.824	245.757	243.840	244.032	244.224
14.5	248.058	244.990	243.073	243.265	243.457
15.0	247.099	244.032	242.115	242.498	242.690
15.5	246.141	243.073	241.348	241.540	241.732
16.0	245.182	242.115	240.390	240.773	240.965
16.5	244.224	241.156	239.431	239.815	240.006
17.0	243.073	240.198	238.473	238.856	239.239
17.5	242.115	239.239	237.322	237.898	238.089
18.0	241.156	238.089	236.364	236.939	237.131
18.5	240.006	236.939	235.214	235.789	236.172
19.0	238.856	235.981	234.064	234.639	235.022
19.5	237.706	234.830	233.105	233.680	234.064
20.0	236.556	233.489	231.955	232.530	232.913
20.5	235.406	232.338	230.805	231.380	231.763
21.0	234.064	231.188	229.463	230.038	230.613
21.5	232.722	230.038	228.313	228.888	229.271
22.0	231.572	228.696	227.162	227.546	228.121
22.5	230.230	227.354	225.821	226.396	226.779
23.0	228.888	226.012	224.479	225.054	225.629
23.5	227.546	224.670	223.329	223.712	224.287
24.0	226.012	223.329	221.795	222.370	222.945
24.5	224.670	221.987	220.453	221.028	221.603
25.0	223.137	220.645	219.111	219.686	220.261
25.5	221.603	219.111	217.769	218.344	218.728
26.0	220.070	217.769	216.236	216.811	217.386
26.5	218.536	216.236	214.702	215.277	215.852

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MCTG-22-L6-RED-L68-835-SAF12125-DIM-UNV-RED ONLY\_.IES****CANDELA TABULATION - (Cont.)**

<b>27.0</b>	217.002	214.702	213.169	213.744	214.319
<b>27.5</b>	215.469	213.169	211.635	212.210	212.785
<b>28.0</b>	213.935	211.635	210.101	210.676	211.252
<b>28.5</b>	212.210	210.101	208.568	209.143	209.718
<b>29.0</b>	210.485	208.376	206.842	207.609	208.184
<b>29.5</b>	208.759	206.842	205.309	205.884	206.459
<b>30.0</b>	207.226	205.117	203.775	204.350	204.925
<b>30.5</b>	205.501	203.392	202.050	202.625	203.200
<b>31.0</b>	203.775	201.667	200.325	200.900	201.475
<b>31.5</b>	202.050	199.941	198.599	199.175	199.750
<b>32.0</b>	200.325	198.216	196.874	197.449	198.216
<b>32.5</b>	198.599	196.299	195.149	195.724	196.299
<b>33.0</b>	196.682	194.574	193.424	193.999	194.574
<b>33.5</b>	194.957	192.848	191.622	192.273	192.848
<b>34.0</b>	193.232	190.932	189.800	190.376	191.047
<b>34.5</b>	191.257	189.072	187.960	188.535	189.225
<b>35.0</b>	189.340	187.155	186.082	186.676	187.385
<b>35.5</b>	187.404	185.238	184.165	184.797	185.506
<b>36.0</b>	185.411	183.302	182.228	182.861	183.609
<b>36.5</b>	183.379	181.347	180.292	180.944	181.672
<b>37.0</b>	181.308	179.372	178.356	179.008	179.679
<b>37.5</b>	179.219	177.378	176.362	177.033	177.685
<b>38.0</b>	177.091	175.346	174.369	175.021	175.653
<b>38.5</b>	174.925	173.295	172.356	173.008	173.602
<b>39.0</b>	172.778	171.225	170.286	170.937	171.512
<b>39.5</b>	170.611	169.116	168.215	168.848	169.404
<b>40.0</b>	168.445	167.046	166.145	166.739	167.353
<b>40.5</b>	166.298	164.918	164.055	164.611	165.225
<b>41.0</b>	164.132	162.809	161.966	162.483	163.116
<b>41.5</b>	161.947	160.662	159.857	160.336	160.931
<b>42.0</b>	159.800	158.515	157.729	158.189	158.745
<b>42.5</b>	157.614	156.311	155.563	156.023	156.541
<b>43.0</b>	155.429	154.106	153.397	153.819	154.355
<b>43.5</b>	153.263	151.959	151.212	151.653	152.189
<b>44.0</b>	151.058	149.793	149.007	149.410	149.966
<b>44.5</b>	148.930	147.608	146.841	147.205	147.780
<b>45.0</b>	146.745	145.422	144.656	144.981	145.576
<b>45.5</b>	144.560	143.199	142.451	142.758	143.352
<b>46.0</b>	142.355	140.956	140.227	140.515	141.071
<b>46.5</b>	140.131	138.713	137.984	138.272	138.809
<b>47.0</b>	137.831	136.451	135.722	136.029	136.547
<b>47.5</b>	135.550	134.208	133.441	133.786	134.285
<b>48.0</b>	133.230	131.965	131.179	131.505	132.042
<b>48.5</b>	130.892	129.703	128.917	129.281	129.780
<b>49.0</b>	128.553	127.422	126.674	127.038	127.499
<b>49.5</b>	126.195	125.160	124.431	124.776	125.217
<b>50.0</b>	123.875	122.879	122.188	122.534	122.936
<b>50.5</b>	121.537	120.597	119.946	120.291	120.655
<b>51.0</b>	119.217	118.316	117.722	118.048	118.393
<b>51.5</b>	116.898	116.073	115.460	115.786	116.131
<b>52.0</b>	114.616	113.811	113.198	113.524	113.926
<b>52.5</b>	112.316	111.588	110.955	111.281	111.703
<b>53.0</b>	110.073	109.364	108.731	109.038	109.479
<b>53.5</b>	107.888	107.159	106.546	106.833	107.255
<b>54.0</b>	105.702	104.936	104.380	104.629	105.031
<b>54.5</b>	103.498	102.712	102.194	102.463	102.846

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55.0	101.351	100.507	99.990	100.258	100.661
55.5	99.204	98.341	97.824	98.054	98.495
56.0	97.076	96.175	95.657	95.907	96.348
56.5	94.948	94.028	93.510	93.760	94.201
57.0	92.839	91.881	91.344	91.632	92.092
57.5	90.692	89.734	89.197	89.504	90.022
58.0	88.545	87.606	87.089	87.395	87.874
58.5	86.398	85.478	84.999	85.306	85.747
59.0	84.271	83.331	82.910	83.235	83.676
59.5	82.143	81.223	80.801	81.165	81.625
60.0	80.015	79.114	78.730	79.114	79.536
60.5	77.925	77.024	76.641	77.082	77.504
61.0	75.798	74.954	74.609	75.069	75.510
61.5	73.689	72.922	72.577	73.075	73.516
62.0	71.561	70.890	70.564	71.101	71.523
62.5	69.452	68.896	68.570	69.126	69.548
63.0	67.401	66.884	66.596	67.190	67.574
63.5	65.407	64.909	64.660	65.254	65.676
64.0	63.452	62.896	62.705	63.337	63.778
64.5	61.497	60.941	60.768	61.458	61.919
65.0	59.522	59.043	58.851	59.580	60.078
65.5	57.605	57.184	56.992	57.740	58.238
66.0	55.746	55.343	55.132	55.918	56.436
66.5	53.886	53.484	53.330	54.116	54.653
67.0	52.065	51.644	51.509	52.353	52.870
67.5	50.263	49.822	49.707	50.608	51.126
68.0	48.442	48.020	47.944	48.883	49.420
68.5	46.679	46.238	46.218	47.177	47.714
69.0	44.953	44.474	44.493	45.471	46.046
69.5	43.247	42.749	42.787	43.803	44.359
70.0	41.522	41.043	41.100	42.154	42.730
70.5	39.797	39.375	39.452	40.506	41.138
71.0	38.033	37.726	37.841	38.876	39.528
71.5	36.327	36.058	36.231	37.266	37.956
72.0	34.640	34.429	34.640	35.713	36.384
72.5	33.030	32.800	33.068	34.141	34.832
73.0	31.419	31.228	31.534	32.608	33.298
73.5	29.828	29.675	30.039	31.093	31.784
74.0	28.295	28.199	28.544	29.617	30.308
74.5	26.761	26.723	27.068	28.141	28.870
75.0	25.266	25.285	25.630	26.704	27.451
75.5	23.771	23.866	24.231	25.304	26.052
76.0	22.352	22.486	22.850	23.924	24.672
76.5	20.991	21.106	21.509	22.582	23.253
77.0	19.630	19.764	20.205	21.259	21.930
77.5	18.346	18.461	18.921	19.956	20.627
78.0	17.080	17.195	17.655	18.671	19.362
78.5	15.873	15.988	16.448	17.445	18.096
79.0	14.703	14.818	15.278	16.218	16.850
79.5	13.572	13.649	14.109	15.048	15.662
80.0	12.460	12.518	12.959	13.898	14.512
80.5	11.387	11.444	11.866	12.805	13.381
81.0	10.313	10.371	10.831	11.751	12.230
81.5	9.317	9.355	9.815	10.697	11.119
82.0	8.358	8.377	8.837	9.681	10.064
82.5	7.457	7.457	7.898	8.722	9.086

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MCTG-22-L6-RED-L68-835-SAF12125-DIM-UNV-RED ONLY\_.IES****CANDELA TABULATION - (Cont.)**

83.0	6.614	6.614	7.035	7.783	8.128
83.5	5.770	5.808	6.173	6.882	7.189
84.0	4.965	5.061	5.406	6.058	6.307
84.5	4.217	4.332	4.639	5.272	5.463
85.0	3.527	3.661	3.949	4.524	4.658
85.5	2.914	3.048	3.316	3.815	3.911
86.0	2.358	2.492	2.741	3.144	3.240
86.5	1.859	2.013	2.205	2.550	2.588
87.0	1.419	1.572	1.744	2.013	2.051
87.5	1.035	1.169	1.342	1.514	1.572
88.0	0.728	0.843	0.978	1.112	1.131
88.5	0.479	0.575	0.671	0.767	0.786
89.0	0.307	0.383	0.441	0.498	0.518
89.5	0.192	0.230	0.268	0.326	0.345
90.0	0.096	0.134	0.173	0.211	0.192
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-L6-RED-L68-835-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-L6-RED-L68-835-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-L6-RED-L68-835-SAF12125-DIM-UNV-RED ONLY\_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	92.76	N.A.	15.30
0-30	194.10	N.A.	32.10
0-40	310.86	N.A.	51.40
0-60	512.64	N.A.	84.70
0-80	599.53	N.A.	99.10
0-90	604.90	N.A.	100.00
10-90	580.72	N.A.	96.00
20-40	218.10	N.A.	36.10
20-50	330.00	N.A.	54.60
40-70	260.79	N.A.	43.10
60-80	86.89	N.A.	14.40
70-80	27.89	N.A.	4.60
80-90	5.37	N.A.	0.90
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	604.91	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	24.18
10-20	68.58
20-30	101.34
30-40	116.76
40-50	111.90
50-60	89.88
60-70	59.01
70-80	27.89
80-90	5.37
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 : MCTG-22-L6-RED-L68-835-SAF12125-DIM-UNV-RED ONLY\_.IES

## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC RW	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	26	26	26	26	25	25	25	25	24	24	24	23	23	23	22	22	22	22
1	24	23	22	21	23	22	22	21	22	21	20	21	20	20	20	19	19	19
2	22	20	19	18	21	20	19	17	19	18	17	18	17	17	18	17	16	16
3	20	18	16	15	20	18	16	15	17	16	15	16	15	14	16	15	14	14
4	18	16	14	13	18	16	14	13	15	14	13	15	13	12	14	13	12	12
5	17	14	13	11	17	14	12	11	14	12	11	13	12	11	13	12	11	10
6	16	13	11	10	15	13	11	10	12	11	10	12	11	10	12	10	10	9
7	15	12	10	9	14	12	10	9	11	10	9	11	10	9	11	9	9	8
8	14	11	9	8	13	11	9	8	10	9	8	10	9	8	10	9	8	7
9	13	10	8	7	12	10	8	7	10	8	7	9	8	7	9	8	7	7
10	12	9	8	6	12	9	8	6	9	7	6	9	7	6	9	7	6	6

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : MCTG-22-L6-RED-L68-835-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	16.1	17.6	16.4	17.9	18.3	UGR Viewed Endwise	16.1	17.6	16.4	17.9	18.2
	3H	17.4	18.8	17.8	19.1	19.5		17.4	18.8	17.8	19.2	19.5
	4H	17.8	19.1	18.2	19.5	19.8		17.9	19.2	18.3	19.6	19.9
	6H	18.0	19.2	18.4	19.6	20.0		18.2	19.4	18.6	19.7	20.1
	8H	18.1	19.2	18.5	19.6	20.0		18.2	19.4	18.7	19.8	20.2
	12H	18.1	19.2	18.5	19.5	20.0		18.3	19.4	18.7	19.7	20.2

4H	2H	16.6	17.9	17.0	18.2	18.6		16.5	17.8	16.9	18.2	18.6
	3H	18.1	19.2	18.5	19.6	20.0		18.1	19.2	18.5	19.6	20.0
	4H	18.6	19.5	19.0	20.0	20.4		18.7	19.6	19.1	20.1	20.5
	6H	18.9	19.7	19.3	20.2	20.6		19.0	19.9	19.5	20.3	20.8
	8H	18.9	19.7	19.4	20.2	20.6		19.1	19.9	19.6	20.4	20.8
	12H	18.9	19.7	19.4	20.1	20.6		19.2	19.9	19.7	20.4	20.8

8H	4H	18.7	19.5	19.2	20.0	20.4		18.8	19.6	19.3	20.1	20.5
	6H	19.1	19.8	19.6	20.3	20.7		19.3	19.9	19.8	20.4	20.9
	8H	19.2	19.8	19.7	20.3	20.8		19.4	20.0	19.9	20.5	21.0
	12H	19.2	19.8	19.8	20.2	20.8		19.5	20.0	20.0	20.5	21.1

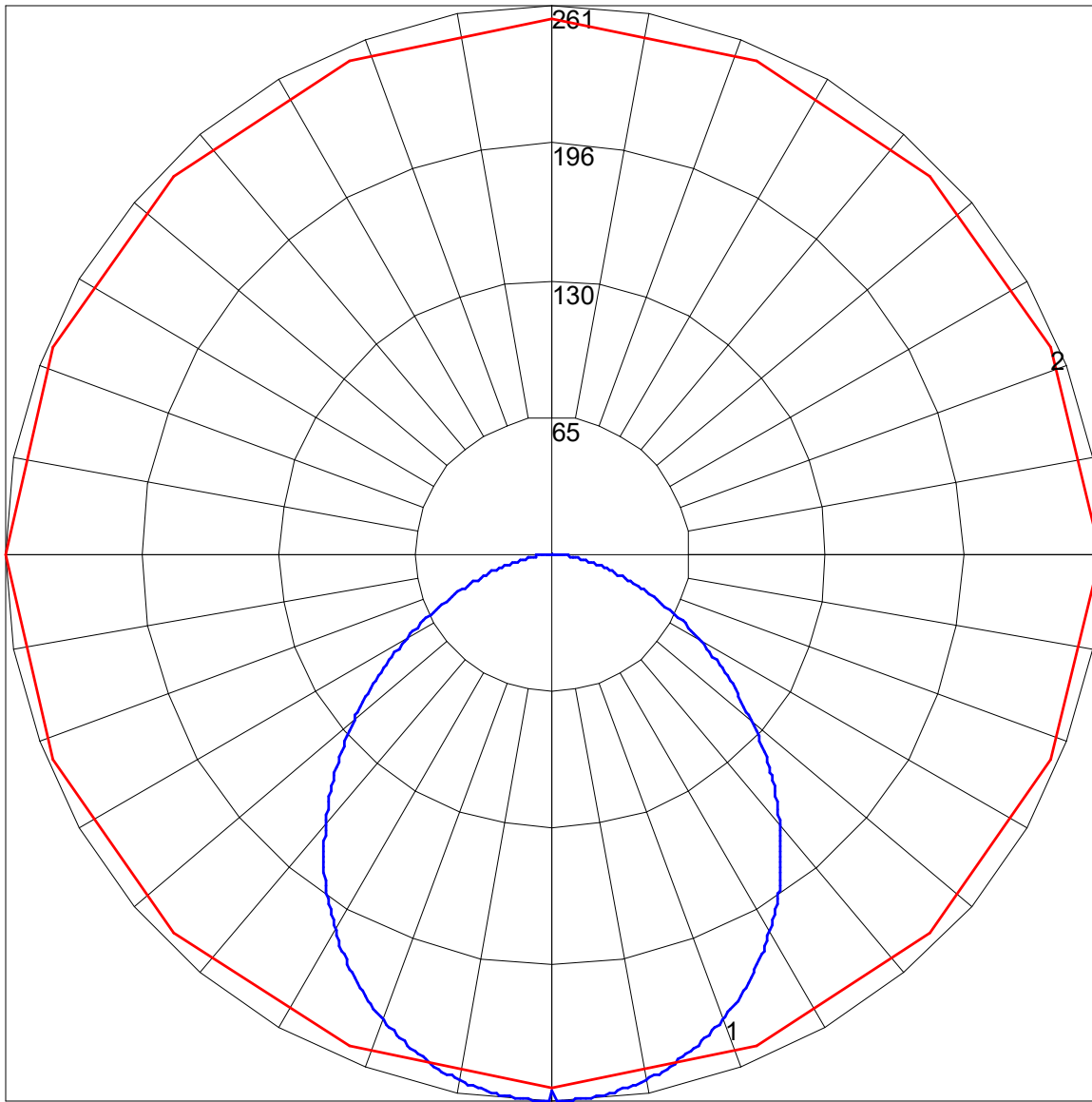
12H	4H	18.7	19.5	19.2	19.9	20.4		18.8	19.5	19.3	20.0	20.5
	6H	19.1	19.7	19.6	20.2	20.7		19.3	19.9	19.8	20.3	20.9
	8H	19.2	19.8	19.7	20.2	20.8		19.4	20.0	20.0	20.4	21.0

Maximum UGR = 21.1

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : MCTG-22-L6-RED-L68-835-SAF12125-DIM-UNV-RED ONLY\_.IES

## POLAR GRAPH



Maximum Candela = 260.901 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.)