



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : MCTG-24-L98-AMB-L74-835-SAF12125-DIM-UNV-AMBER ONLY\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] GEN from UL 12154994.01  
 [TESTLAB] UL Verification Services Inc.  
 [ISSUE DATE] 13 FEB 2020  
 [MANUFAC] H E Williams Inc  
 [LUMCAT] MCTG-24-L98/AMB/L74/835-SAF12125-DIM-UNV-AMBER ONLY  
 [LUMINAIRE] White formed steel housing, frosted patterned plastic lens  
 [LAMP] HLM AMBER LEDs  
 [BALLAST] One Philips Advance XI054C150V054BST1 driver

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	9886
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	91
Total Luminaire Watts	108.1
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)	3.54 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	6505	6412	6453
55	5538	5464	5501
65	4414	4365	4456
75	3060	3104	3324
85	1269	1420	1675

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	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
<b>0.0</b>	4185.421	4185.421	4185.421	4185.421	4185.421
<b>0.5</b>	4263.741	4207.351	4163.491	4160.359	4160.359
<b>1.0</b>	4263.741	4207.351	4163.491	4160.359	4157.226
<b>1.5</b>	4260.608	4204.218	4163.491	4160.359	4157.226
<b>2.0</b>	4260.608	4204.218	4160.359	4157.226	4154.093
<b>2.5</b>	4257.475	4201.085	4160.359	4157.226	4154.093
<b>3.0</b>	4254.343	4197.952	4157.226	4154.093	4150.960
<b>3.5</b>	4251.210	4194.819	4154.093	4150.960	4147.827
<b>4.0</b>	4248.077	4191.687	4150.960	4147.827	4144.695
<b>4.5</b>	4244.944	4188.554	4144.695	4144.695	4141.562
<b>5.0</b>	4238.679	4185.421	4141.562	4138.429	4138.429
<b>5.5</b>	4235.546	4179.155	4138.429	4135.296	4135.296
<b>6.0</b>	4229.280	4172.890	4132.163	4129.031	4129.031
<b>6.5</b>	4223.015	4166.624	4125.898	4125.898	4122.765
<b>7.0</b>	4216.749	4160.359	4119.632	4119.632	4116.499
<b>7.5</b>	4207.351	4154.093	4113.367	4113.367	4110.234
<b>8.0</b>	4201.085	4147.827	4107.101	4103.968	4103.968
<b>8.5</b>	4191.687	4138.429	4097.703	4097.703	4097.703
<b>9.0</b>	4182.288	4129.031	4091.437	4091.437	4088.304
<b>9.5</b>	4176.023	4119.632	4082.039	4082.039	4082.039
<b>10.0</b>	4166.624	4110.234	4072.640	4072.640	4072.640
<b>10.5</b>	4154.093	4100.835	4066.375	4063.242	4063.242
<b>11.0</b>	4144.695	4091.437	4053.843	4053.843	4053.843
<b>11.5</b>	4132.163	4078.906	4044.445	4044.445	4044.445
<b>12.0</b>	4119.632	4069.507	4035.047	4035.047	4035.047
<b>12.5</b>	4107.101	4056.976	4022.515	4022.515	4025.648
<b>13.0</b>	4094.570	4044.445	4009.984	4013.117	4013.117
<b>13.5</b>	4082.039	4028.781	3997.453	4000.586	4000.586
<b>14.0</b>	4066.375	4016.250	3984.922	3988.055	3991.187
<b>14.5</b>	4053.843	4003.719	3972.391	3975.523	3978.656
<b>15.0</b>	4038.179	3988.055	3956.727	3962.992	3966.125
<b>15.5</b>	4022.515	3972.391	3944.195	3947.328	3950.461
<b>16.0</b>	4006.851	3956.727	3928.531	3934.797	3937.930
<b>16.5</b>	3991.187	3941.063	3912.867	3919.133	3922.266
<b>17.0</b>	3972.391	3925.399	3897.203	3903.469	3909.735
<b>17.5</b>	3956.727	3909.735	3878.407	3887.805	3890.938
<b>18.0</b>	3941.063	3890.938	3862.743	3872.141	3875.274
<b>18.5</b>	3922.266	3872.141	3843.946	3853.344	3859.610
<b>19.0</b>	3903.469	3856.477	3825.149	3834.547	3840.813
<b>19.5</b>	3884.672	3837.680	3809.485	3818.883	3825.149
<b>20.0</b>	3865.875	3815.751	3790.688	3800.087	3806.352
<b>20.5</b>	3847.079	3796.954	3771.891	3781.290	3787.555
<b>21.0</b>	3825.149	3778.157	3749.962	3759.360	3768.759
<b>21.5</b>	3803.219	3759.360	3731.165	3740.563	3746.829
<b>22.0</b>	3784.423	3737.431	3712.368	3718.634	3728.032
<b>22.5</b>	3762.493	3715.501	3690.439	3699.837	3706.103
<b>23.0</b>	3740.563	3693.571	3668.509	3677.907	3687.306
<b>23.5</b>	3718.634	3671.642	3649.712	3655.978	3665.376
<b>24.0</b>	3693.571	3649.712	3624.650	3634.048	3643.447
<b>24.5</b>	3671.642	3627.783	3602.720	3612.119	3621.517
<b>25.0</b>	3646.579	3605.853	3580.791	3590.189	3599.587
<b>25.5</b>	3621.517	3580.791	3558.861	3568.259	3574.525
<b>26.0</b>	3596.455	3558.861	3533.799	3543.197	3552.595
<b>26.5</b>	3571.392	3533.799	3508.736	3518.135	3527.533

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27.0	3546.330	3508.736	3483.674	3493.072	3502.471
27.5	3521.267	3483.674	3458.611	3468.010	3477.408
28.0	3496.205	3458.611	3433.549	3442.947	3452.346
28.5	3468.010	3433.549	3408.487	3417.885	3427.283
29.0	3439.815	3405.354	3380.291	3392.823	3402.221
29.5	3411.619	3380.291	3355.229	3364.627	3374.026
30.0	3386.557	3352.096	3330.167	3339.565	3348.963
30.5	3358.362	3323.901	3301.971	3311.370	3320.768
31.0	3330.167	3295.706	3273.776	3283.175	3292.573
31.5	3301.971	3267.511	3245.581	3254.979	3264.378
32.0	3273.776	3239.315	3217.386	3226.784	3239.315
32.5	3245.581	3207.987	3189.191	3198.589	3207.987
33.0	3214.253	3179.792	3160.995	3170.394	3179.792
33.5	3186.058	3151.597	3131.547	3142.199	3151.597
34.0	3157.863	3120.269	3101.785	3111.184	3122.149
34.5	3125.595	3089.881	3071.711	3081.109	3092.387
35.0	3094.267	3058.553	3041.009	3050.721	3062.312
35.5	3062.625	3027.225	3009.681	3020.019	3031.611
36.0	3030.044	2995.583	2978.040	2988.378	3000.596
36.5	2996.837	2963.629	2946.398	2957.050	2968.955
37.0	2963.002	2931.361	2914.757	2925.409	2936.374
37.5	2928.855	2898.780	2882.176	2893.141	2903.792
38.0	2894.081	2865.572	2849.595	2860.246	2870.585
38.5	2858.680	2832.051	2816.701	2827.352	2837.064
39.0	2823.593	2798.217	2782.866	2793.518	2802.916
39.5	2788.192	2763.756	2749.032	2759.370	2768.455
40.0	2752.791	2729.922	2715.198	2724.910	2734.934
40.5	2717.704	2695.148	2681.050	2690.135	2700.160
41.0	2682.303	2660.687	2646.903	2655.361	2665.700
41.5	2646.590	2625.600	2612.442	2620.274	2629.986
42.0	2611.502	2590.512	2577.668	2585.187	2594.272
42.5	2575.788	2554.485	2542.267	2549.786	2558.245
43.0	2540.074	2518.458	2506.867	2513.759	2522.531
43.5	2504.674	2483.371	2471.153	2478.358	2487.130
44.0	2468.646	2447.970	2435.126	2441.704	2450.790
44.5	2433.872	2412.256	2399.725	2405.677	2415.076
45.0	2398.158	2376.542	2364.011	2369.337	2379.048
45.5	2362.445	2340.202	2327.984	2332.996	2342.708
46.0	2326.417	2303.548	2291.643	2296.342	2305.428
46.5	2290.077	2266.894	2254.990	2259.689	2268.461
47.0	2252.483	2229.927	2218.022	2223.035	2231.494
47.5	2215.203	2193.273	2180.742	2186.381	2194.526
48.0	2177.296	2156.620	2143.775	2149.101	2157.873
48.5	2139.076	2119.653	2106.808	2112.760	2120.906
49.0	2100.856	2082.372	2070.154	2076.107	2083.625
49.5	2062.322	2045.405	2033.501	2039.140	2046.345
50.0	2024.415	2008.125	1996.847	2002.486	2009.065
50.5	1986.195	1970.845	1960.193	1965.832	1971.784
51.0	1948.288	1933.564	1923.853	1929.178	1934.817
51.5	1910.382	1896.910	1886.886	1892.211	1897.850
52.0	1873.101	1859.943	1849.918	1855.244	1861.823
52.5	1835.508	1823.603	1813.265	1818.590	1825.483
53.0	1798.854	1787.262	1776.924	1781.937	1789.142
53.5	1763.140	1751.235	1741.210	1745.909	1752.802
54.0	1727.426	1714.895	1705.810	1709.882	1716.461
54.5	1691.399	1678.554	1670.096	1674.482	1680.747

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55.0	1656.311	1642.527	1634.069	1638.454	1645.033
55.5	1621.224	1607.126	1598.668	1602.427	1609.633
56.0	1586.450	1571.726	1563.267	1567.340	1574.545
56.5	1551.676	1536.638	1528.180	1532.253	1539.458
57.0	1517.215	1501.551	1492.779	1497.478	1504.997
57.5	1482.128	1466.464	1457.692	1462.704	1471.163
58.0	1447.040	1431.690	1423.231	1428.244	1436.076
58.5	1411.953	1396.916	1389.084	1394.096	1401.301
59.0	1377.179	1361.828	1354.936	1360.262	1367.467
59.5	1342.405	1327.367	1320.475	1326.428	1333.946
60.0	1307.631	1292.907	1286.641	1292.907	1299.799
60.5	1273.483	1258.759	1252.493	1259.699	1266.591
61.0	1238.709	1224.925	1219.286	1226.805	1234.010
61.5	1204.248	1191.717	1186.078	1194.223	1201.429
62.0	1169.474	1158.509	1153.184	1161.956	1168.848
62.5	1135.013	1125.928	1120.603	1129.688	1136.580
63.0	1101.493	1093.034	1088.335	1098.046	1104.312
63.5	1068.911	1060.766	1056.693	1066.405	1073.297
64.0	1036.957	1027.872	1024.739	1035.077	1042.283
64.5	1005.002	995.917	993.098	1004.376	1011.894
65.0	972.734	964.902	961.770	973.674	981.820
65.5	941.406	934.514	931.381	943.599	951.745
66.0	911.018	904.439	900.993	913.838	922.296
66.5	880.630	874.051	871.545	884.389	893.161
67.0	850.869	843.976	841.783	855.568	864.026
67.5	821.420	814.215	812.335	827.059	835.518
68.0	791.659	784.766	783.513	798.864	807.636
68.5	762.837	755.631	755.318	770.982	779.754
69.0	734.642	726.810	727.123	743.100	752.499
69.5	706.760	698.614	699.241	715.845	724.930
70.0	678.565	670.733	671.672	688.903	698.301
70.5	650.369	643.477	644.730	661.961	672.299
71.0	621.548	616.535	618.415	635.332	645.983
71.5	593.666	589.280	592.099	609.016	620.294
72.0	566.097	562.651	566.097	583.641	594.605
72.5	539.781	536.022	540.408	557.952	569.230
73.0	513.466	510.333	515.346	532.889	544.167
73.5	487.464	484.957	490.910	508.140	519.418
74.0	462.401	460.835	466.474	484.018	495.296
74.5	437.339	436.712	442.351	459.895	471.800
75.0	412.903	413.216	418.855	436.399	448.617
75.5	388.467	390.034	395.986	413.530	425.748
76.0	365.284	367.477	373.430	390.973	403.191
76.5	343.042	344.921	351.500	369.044	380.009
77.0	320.799	322.992	330.197	347.428	358.392
77.5	299.809	301.689	309.207	326.124	337.089
78.0	279.132	281.012	288.531	305.135	316.413
78.5	259.396	261.276	268.794	285.085	295.736
79.0	240.286	242.165	249.684	265.035	275.373
79.5	221.802	223.055	230.574	245.925	255.950
80.0	203.632	204.572	211.777	227.128	237.153
80.5	186.088	187.028	193.920	209.271	218.669
81.0	168.545	169.484	177.003	192.041	199.873
81.5	152.254	152.881	160.399	174.810	181.702
82.0	136.590	136.903	144.422	158.206	164.472
82.5	121.866	121.866	129.071	142.542	148.495

**IES INDOOR REPORT**

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**CANDELA TABULATION - (Cont.)**

83.0	108.082	108.082	114.974	127.192	132.831
83.5	94.297	94.924	100.876	112.468	117.480
84.0	81.140	82.706	88.345	98.996	103.069
84.5	68.922	70.801	75.814	86.152	89.285
85.0	57.644	59.836	64.536	73.934	76.127
85.5	47.619	49.812	54.197	62.343	63.909
86.0	38.533	40.726	44.799	51.378	52.944
86.5	30.388	32.894	36.027	41.666	42.293
87.0	23.183	25.689	28.508	32.894	33.521
87.5	16.917	19.110	21.930	24.749	25.689
88.0	11.905	13.784	15.977	18.170	18.484
88.5	7.832	9.398	10.965	12.531	12.844
89.0	5.012	6.266	7.205	8.145	8.459
89.5	3.133	3.759	4.386	5.326	5.639
90.0	1.566	2.193	2.820	3.446	3.133
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-24-L98-AMB-L74-835-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-24-L98-AMB-L74-835-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-24-L98-AMB-L74-835-SAF12125-DIM-UNV-AMBER ONLY\_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1515.95	N.A.	15.30
0-30	3172.00	N.A.	32.10
0-40	5080.17	N.A.	51.40
0-60	8377.78	N.A.	84.70
0-80	9797.79	N.A.	99.10
0-90	9885.54	N.A.	100.00
10-90	9490.31	N.A.	96.00
20-40	3564.22	N.A.	36.10
20-50	5393.00	N.A.	54.60
40-70	4261.9	N.A.	43.10
60-80	1420.01	N.A.	14.40
70-80	455.73	N.A.	4.60
80-90	87.75	N.A.	0.90
90-110	0.07	N.A.	0.00
90-120	0.07	N.A.	0.00
90-130	0.07	N.A.	0.00
90-150	0.07	N.A.	0.00
90-180	0.07	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	9885.62	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	395.23
10-20	1120.71
20-30	1656.06
30-40	1908.16
40-50	1828.77
50-60	1468.84
60-70	964.29
70-80	455.73
80-90	87.75
90-100	0.07
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-24-L98-AMB-L74-835-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	201	201	201	201	196	196	196	196	188	188	188	180	180	180	172	172	172	169
1	186	178	172	166	181	175	169	163	167	163	158	161	157	153	155	152	149	145
2	170	157	147	138	166	154	144	136	148	140	133	143	136	130	138	132	127	124
3	156	140	127	116	152	137	125	115	132	122	113	127	119	111	123	116	110	106
4	144	125	111	100	140	122	109	99	118	107	98	114	105	97	111	102	95	92
5	133	112	98	87	129	110	97	86	107	95	86	103	93	85	100	91	84	80
6	123	101	87	76	120	100	86	76	97	85	76	94	83	75	91	82	74	71
7	114	92	78	68	111	91	77	68	88	76	67	86	75	67	84	74	66	63
8	106	84	71	61	104	83	70	61	81	69	60	79	68	60	77	67	60	57
9	100	78	64	55	97	77	64	55	75	63	55	73	62	55	71	61	54	51
10	93	72	59	50	91	71	59	50	69	58	50	68	57	50	66	57	50	47

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : MCTG-24-L98-AMB-L74-835-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	15.8	17.3	16.1	17.6	18.0	15.8	17.3	16.1	17.6	17.9
	3H	17.1	18.5	17.5	18.8	19.2	17.1	18.5	17.5	18.9	19.2
	4H	17.5	18.8	17.9	19.2	19.5	17.6	18.9	18.0	19.3	19.6
	6H	17.7	18.9	18.1	19.3	19.7	17.9	19.1	18.3	19.5	19.8
	8H	17.8	18.9	18.2	19.3	19.7	17.9	19.1	18.4	19.5	19.9
	12H	17.8	18.9	18.2	19.2	19.7	18.0	19.1	18.4	19.4	19.9

### UGR Viewed Endwise

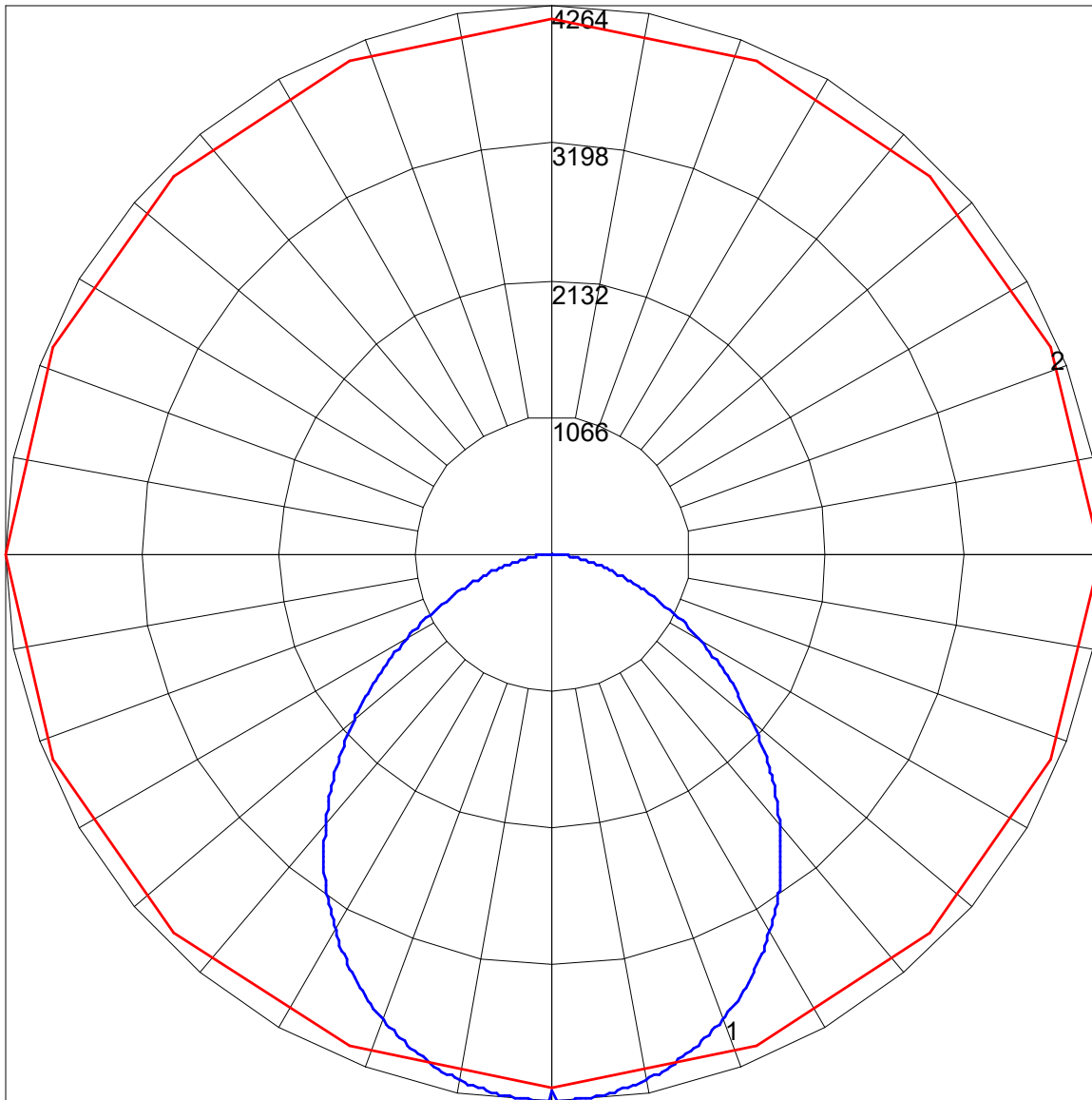
4H	2H	16.3	17.6	16.7	17.9	18.3	16.2	17.5	16.6	17.9	18.3
	3H	17.8	18.9	18.2	19.3	19.7	17.8	18.9	18.2	19.3	19.7
	4H	18.3	19.2	18.7	19.7	20.1	18.4	19.3	18.8	19.8	20.2
	6H	18.6	19.4	19.0	19.9	20.3	18.7	19.6	19.2	20.0	20.5
	8H	18.6	19.4	19.1	19.9	20.3	18.8	19.6	19.3	20.1	20.5
	12H	18.7	19.4	19.1	19.8	20.3	18.9	19.6	19.4	20.1	20.5
8H	4H	18.4	19.2	18.9	19.7	20.1	18.5	19.3	19.0	19.8	20.2
	6H	18.8	19.5	19.3	20.0	20.4	19.0	19.6	19.5	20.1	20.6
	8H	18.9	19.5	19.4	20.0	20.5	19.1	19.7	19.6	20.2	20.7
	12H	18.9	19.5	19.5	20.0	20.5	19.2	19.7	19.7	20.2	20.8
12H	4H	18.4	19.2	18.9	19.6	20.1	18.5	19.2	19.0	19.7	20.2
	6H	18.8	19.4	19.3	19.9	20.4	19.0	19.6	19.5	20.0	20.6
	8H	18.9	19.5	19.4	19.9	20.5	19.1	19.7	19.7	20.2	20.7

Maximum UGR = 20.8

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : MCTG-24-L98-AMB-L74-835-SAF12125-DIM-UNV-AMBER ONLY\_.IES

## POLAR GRAPH



Maximum Candela = 4263.741 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.)