



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : MCTAX-24-L118-840-CS-SCPC-DIM-UNV\_.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] GEN from UL #15282383.01  
 [TESTLAB] UL Verification Services Inc.  
 [ISSUE DATE] 7/9/2024  
 [TEST DATE] 5/7/2024  
 [MANUFAC] H E WILLIAMS INC  
 [LUMCAT] MCTAx-24-L118/840-CS-SCPC-DIM-UNV  
 [LUMINAIRE] White 2x4 Architectural Clean Room Troffer  
 [LAMP] 4000l LED  
 [OTHER] This test was performed using the calibrated photodetector met  
 [MORE] hod of absolute photometry.  
 [OTHER] The reported results were measured in a facility that meets th  
 [MORE] e requirements of ANSI/IES LM-75-19. The device under test emits no de  
 [MORE] tectable uplight as defined by ANSI/IES LM-75-19.

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	11818
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	125
Total Luminaire Watts	94.2
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.40
Spacing Criterion (Diagonal)	1.44
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.58 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	6631	7551	8826
55	6188	7650	9317
65	5412	7539	8491
75	3859	5749	5678
85	1446	1381	1327

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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	3894.047	3894.047	3894.047	3894.047	3894.047
0.5	3886.578	3899.027	3886.578	3896.537	3904.006
1.0	3886.578	3899.027	3886.578	3896.537	3904.006
1.5	3884.088	3896.537	3886.578	3896.537	3904.006
2.0	3884.088	3896.537	3884.088	3894.047	3901.517
2.5	3881.598	3894.047	3884.088	3894.047	3901.517
3.0	3879.108	3894.047	3881.598	3894.047	3901.517
3.5	3876.619	3889.068	3879.108	3891.557	3899.027
4.0	3874.129	3886.578	3876.619	3891.557	3899.027
4.5	3871.639	3884.088	3874.129	3889.068	3896.537
5.0	3866.659	3881.598	3871.639	3886.578	3896.537
5.5	3864.170	3876.619	3869.149	3884.088	3894.047
6.0	3859.190	3874.129	3866.659	3881.598	3891.557
6.5	3854.210	3869.149	3861.680	3879.108	3889.068
7.0	3849.231	3864.170	3859.190	3876.619	3886.578
7.5	3844.251	3859.190	3854.210	3874.129	3884.088
8.0	3836.782	3851.721	3849.231	3869.149	3881.598
8.5	3831.802	3846.741	3844.251	3866.659	3876.619
9.0	3824.333	3839.272	3839.272	3861.680	3874.129
9.5	3816.863	3834.292	3834.292	3859.190	3871.639
10.0	3809.394	3826.823	3829.312	3854.210	3869.149
10.5	3799.435	3819.353	3824.333	3849.231	3864.170
11.0	3791.965	3811.884	3816.863	3844.251	3861.680
11.5	3782.006	3801.925	3809.394	3841.761	3856.700
12.0	3774.537	3794.455	3804.414	3836.782	3851.721
12.5	3764.578	3784.496	3796.945	3829.312	3849.231
13.0	3754.618	3777.027	3789.476	3824.333	3844.251
13.5	3744.659	3767.067	3782.006	3819.353	3839.272
14.0	3732.210	3757.108	3774.537	3814.374	3834.292
14.5	3722.251	3747.149	3767.067	3806.904	3829.312
15.0	3712.292	3737.190	3757.108	3799.435	3824.333
15.5	3699.843	3724.741	3749.639	3794.455	3819.353
16.0	3687.394	3714.782	3739.680	3786.986	3811.884
16.5	3677.435	3702.333	3729.720	3782.006	3806.904
17.0	3664.986	3689.884	3719.761	3772.047	3801.925
17.5	3652.537	3677.435	3709.802	3764.578	3794.455
18.0	3637.598	3664.986	3699.843	3757.108	3786.986
18.5	3622.659	3652.537	3689.884	3749.639	3782.006
19.0	3610.210	3640.088	3677.435	3742.169	3774.537
19.5	3595.271	3625.149	3667.475	3732.210	3767.067
20.0	3580.332	3610.210	3655.026	3724.741	3759.598
20.5	3565.394	3597.761	3645.067	3717.271	3754.618
21.0	3550.455	3582.822	3632.618	3709.802	3747.149
21.5	3533.026	3567.883	3620.169	3699.843	3739.680
22.0	3518.087	3552.945	3607.720	3692.373	3734.700
22.5	3500.659	3538.006	3595.271	3684.904	3729.720
23.0	3483.230	3520.577	3585.312	3677.435	3722.251
23.5	3465.802	3505.638	3570.373	3669.965	3717.271
24.0	3448.373	3488.210	3557.924	3660.006	3712.292
24.5	3430.944	3473.271	3545.475	3652.537	3704.822
25.0	3413.516	3455.842	3533.026	3645.067	3699.843
25.5	3396.087	3438.414	3520.577	3635.108	3692.373
26.0	3376.169	3420.985	3505.638	3627.639	3684.904
26.5	3356.250	3403.557	3493.189	3617.679	3677.435

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**CANDELA TABULATION - (Cont.)**

27.0	3336.332	3386.128	3480.740	3607.720	3672.455
27.5	3316.414	3366.210	3465.802	3600.251	3664.986
28.0	3298.985	3348.781	3450.863	3590.292	3657.516
28.5	3276.577	3328.863	3435.924	3580.332	3650.047
29.0	3259.148	3311.434	3423.475	3570.373	3642.577
29.5	3236.740	3291.516	3406.046	3560.414	3632.618
30.0	3216.822	3271.597	3391.108	3550.455	3625.149
30.5	3194.413	3251.679	3376.169	3538.006	3617.679
31.0	3174.495	3231.760	3361.230	3528.047	3610.210
31.5	3152.087	3211.842	3343.801	3515.598	3602.741
32.0	3132.168	3191.924	3326.373	3505.638	3592.781
32.5	3109.760	3169.515	3308.944	3495.679	3585.312
33.0	3087.352	3149.597	3294.005	3483.230	3575.353
33.5	3064.944	3127.189	3276.577	3473.271	3567.883
34.0	3042.536	3104.781	3259.148	3460.822	3560.414
34.5	3017.638	3084.862	3239.230	3448.373	3550.455
35.0	2995.229	3059.964	3221.801	3435.924	3540.496
35.5	2972.821	3037.556	3204.373	3423.475	3530.536
36.0	2947.923	3015.148	3186.944	3411.026	3523.067
36.5	2923.025	2992.740	3167.026	3398.577	3510.618
37.0	2898.127	2970.331	3149.597	3386.128	3503.149
37.5	2870.739	2945.433	3129.679	3371.189	3490.700
38.0	2848.331	2920.535	3109.760	3358.740	3478.251
38.5	2820.943	2898.127	3092.332	3343.801	3468.291
39.0	2796.045	2873.229	3072.413	3331.352	3458.332
39.5	2771.147	2850.821	3052.495	3316.414	3445.883
40.0	2743.760	2825.923	3032.576	3301.475	3433.434
40.5	2718.862	2801.025	3012.658	3286.536	3420.985
41.0	2691.474	2776.127	2990.250	3271.597	3408.536
41.5	2666.576	2748.739	2970.331	3256.658	3396.087
42.0	2639.188	2723.841	2950.413	3241.720	3383.638
42.5	2611.800	2698.943	2928.005	3224.291	3368.699
43.0	2584.412	2671.555	2905.597	3209.352	3356.250
43.5	2557.025	2644.168	2883.188	3191.924	3341.312
44.0	2529.637	2619.270	2863.270	3174.495	3323.883
44.5	2499.759	2591.882	2838.372	3157.066	3308.944
45.0	2473.118	2566.984	2815.964	3139.638	3291.516
45.5	2444.984	2539.596	2793.556	3122.209	3276.577
46.0	2416.849	2512.208	2771.147	3102.291	3259.148
46.5	2389.461	2485.318	2748.739	3082.372	3241.720
47.0	2361.326	2457.184	2726.331	3062.454	3221.801
47.5	2331.698	2430.045	2701.433	3045.025	3201.883
48.0	2301.820	2401.661	2679.025	3022.617	3184.454
48.5	2272.191	2373.526	2654.127	3002.699	3164.536
49.0	2243.559	2345.392	2629.229	2980.291	3142.128
49.5	2213.930	2315.763	2604.331	2960.372	3119.719
50.0	2183.057	2286.632	2581.923	2937.964	3097.311
50.5	2153.428	2257.253	2554.535	2915.556	3074.903
51.0	2123.052	2227.375	2529.637	2890.658	3050.005
51.5	2092.677	2197.248	2502.249	2868.250	3025.107
52.0	2062.052	2167.620	2476.853	2843.352	3000.209
52.5	2030.681	2137.493	2449.963	2818.454	2975.311
53.0	2000.305	2107.118	2423.322	2791.066	2945.433
53.5	1967.689	2076.493	2395.686	2763.678	2915.556
54.0	1936.317	2046.367	2368.796	2736.290	2885.678
54.5	1904.199	2015.244	2341.906	2708.902	2853.311

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55.0	1872.081	1984.869	2314.269	2679.025	2818.454
55.5	1839.713	1953.248	2285.885	2646.657	2783.596
56.0	1811.081	1921.877	2257.004	2616.780	2748.739
56.5	1780.705	1890.505	2227.873	2581.923	2708.902
57.0	1751.325	1858.636	2198.742	2549.555	2671.555
57.5	1718.709	1829.007	2169.612	2512.208	2631.719
58.0	1684.848	1799.876	2139.734	2477.849	2591.882
58.5	1652.231	1768.505	2110.354	2440.253	2549.555
59.0	1618.121	1739.125	2079.730	2401.910	2504.739
59.5	1583.513	1706.011	2047.612	2362.820	2457.682
60.0	1549.154	1672.399	2016.240	2320.992	2412.118
60.5	1515.541	1639.284	1983.873	2277.918	2363.816
61.0	1481.431	1605.672	1951.754	2234.844	2315.763
61.5	1447.570	1572.060	1918.640	2191.024	2267.461
62.0	1413.210	1537.949	1885.028	2144.714	2215.175
62.5	1378.602	1503.590	1851.166	2096.412	2164.383
63.0	1344.243	1469.231	1821.040	2048.358	2111.350
63.5	1310.133	1434.872	1786.929	1998.313	2057.073
64.0	1275.525	1400.761	1754.811	1949.015	2004.289
64.5	1240.916	1366.651	1718.460	1898.472	1947.771
65.0	1206.308	1331.545	1680.366	1849.921	1892.746
65.5	1170.953	1296.937	1642.272	1798.383	1841.207
66.0	1135.847	1262.080	1602.933	1746.844	1782.946
66.5	1101.736	1227.720	1563.096	1696.052	1727.423
67.0	1067.128	1193.610	1522.264	1642.770	1673.893
67.5	1032.769	1158.255	1481.182	1586.999	1616.876
68.0	997.165	1123.647	1438.357	1532.472	1559.113
68.5	962.059	1089.039	1395.284	1477.447	1500.851
69.0	926.704	1055.177	1351.214	1422.174	1445.080
69.5	892.344	1021.067	1304.904	1366.651	1388.561
70.0	856.989	987.206	1258.843	1312.125	1331.296
70.5	823.128	953.344	1213.031	1257.100	1273.533
71.0	789.267	919.483	1166.222	1202.573	1217.761
71.5	755.156	885.871	1117.422	1149.043	1162.239
72.0	720.299	852.010	1069.618	1095.014	1106.467
72.5	687.185	818.397	1022.312	1040.985	1049.949
73.0	654.070	784.785	975.504	988.451	994.177
73.5	621.703	751.671	927.699	936.165	940.646
74.0	589.336	719.303	880.393	884.128	886.120
74.5	557.217	686.936	831.842	832.838	830.099
75.0	526.842	654.319	784.785	781.548	775.075
75.5	495.968	622.450	737.977	729.760	716.315
76.0	466.837	590.581	692.164	677.973	656.311
76.5	437.956	558.711	647.099	625.687	593.070
77.0	409.323	526.842	603.776	572.654	528.087
77.5	381.437	495.719	559.956	517.131	460.364
78.0	354.299	464.846	516.633	456.629	395.878
78.5	327.658	433.972	476.050	396.376	340.605
79.0	302.013	403.348	435.217	339.858	297.282
79.5	277.115	372.972	394.633	290.311	261.927
80.0	252.715	342.596	353.054	250.225	231.800
80.5	229.062	312.968	311.225	218.355	206.155
81.0	207.400	284.335	268.898	192.213	183.498
81.5	185.988	255.951	225.825	169.306	163.082
82.0	165.572	228.066	185.988	149.388	144.657
82.5	146.151	201.425	153.870	130.714	127.976

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## CANDELA TABULATION - (Cont.)

83.0	127.229	176.527	128.474	114.033	112.290
83.5	110.298	152.625	108.057	98.845	97.600
84.0	94.363	130.217	91.127	85.151	84.404
84.5	79.923	109.302	76.437	72.453	72.204
85.0	66.478	89.135	63.490	61.249	61.000
85.5	54.527	69.714	52.286	51.290	50.792
86.0	43.820	52.535	42.576	42.078	41.331
86.5	34.359	39.090	34.110	33.861	32.865
87.0	26.143	29.131	26.641	26.392	25.396
87.5	19.420	21.661	20.416	19.669	18.425
88.0	14.192	15.686	14.939	13.694	12.449
88.5	10.208	11.453	10.208	9.212	8.465
89.0	7.220	7.967	6.473	5.727	5.229
89.5	4.482	4.482	3.486	3.486	3.237
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 : MCTAX-24-L118-840-CS-SCPC-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 : MCTAX-24-L118-840-CS-SCPC-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**  
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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1432.44	N.A.	12.10
0-30	3069.03	N.A.	26.00
0-40	5101.78	N.A.	43.20
0-60	9379.02	N.A.	79.40
0-80	11714.51	N.A.	99.10
0-90	11818.38	N.A.	100.00
10-90	11449.35	N.A.	96.90
20-40	3669.34	N.A.	31.00
20-50	5868.84	N.A.	49.70
40-70	5854.99	N.A.	49.50
60-80	2335.49	N.A.	19.80
70-80	757.74	N.A.	6.40
80-90	103.87	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	11818.38	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	369.02
10-20	1063.41
20-30	1636.59
30-40	2032.75
40-50	2199.5
50-60	2077.74
60-70	1577.75
70-80	757.74
80-90	103.87
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 : MCTAX-24-L118-840-CS-SCPC-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	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	78	96	89	83	77	85	80	75	82	78	74	79	75	72	70
3	90	79	71	65	88	78	70	64	75	68	63	72	66	62	69	65	61	59
4	82	70	61	54	80	69	60	54	66	59	53	64	58	53	62	56	52	50
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	49	45	43
6	70	56	47	40	68	55	46	40	53	46	40	52	45	40	50	44	39	37
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	36	29	25	23

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : MCTAX-24-L118-840-CS-SCPC-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

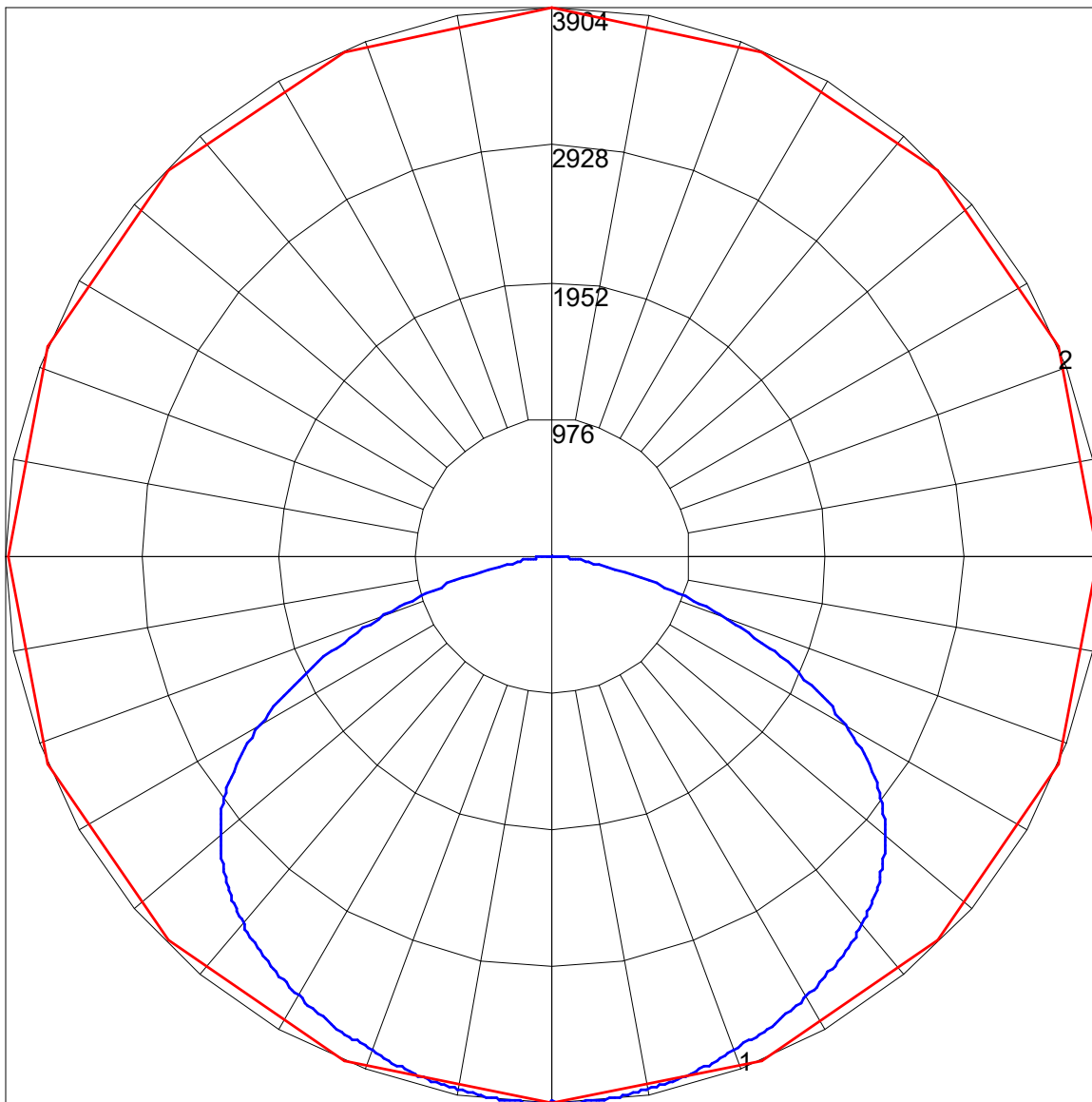
X=2H	Y=2H	18.3	20.0	18.7	20.3	20.6	20.7	22.3	21.1	22.7	23.0
	3H	19.9	21.4	20.3	21.7	22.1	22.4	23.8	22.7	24.2	24.5
	4H	20.4	21.8	20.8	22.1	22.5	22.8	24.2	23.2	24.5	24.9
	6H	20.6	21.9	21.0	22.3	22.7	22.9	24.2	23.3	24.6	25.0
	8H	20.7	21.9	21.1	22.3	22.7	22.9	24.2	23.3	24.5	24.9
	12H	20.7	21.9	21.1	22.3	22.7	22.9	24.1	23.3	24.5	24.9

### UGR Viewed Endwise

4H	2H	19.4	20.8	19.8	21.1	21.5	21.2	22.6	21.6	22.9	23.3
	3H	21.1	22.3	21.5	22.7	23.1	23.0	24.2	23.4	24.6	25.0
	4H	21.7	22.7	22.1	23.2	23.6	23.6	24.7	24.0	25.1	25.5
	6H	22.0	23.0	22.5	23.4	23.8	23.8	24.7	24.2	25.1	25.6
	8H	22.1	22.9	22.5	23.4	23.9	23.8	24.6	24.2	25.1	25.6
	12H	22.1	22.9	22.6	23.4	23.8	23.8	24.6	24.3	25.0	25.5
8H	4H	22.1	22.9	22.5	23.4	23.8	23.8	24.6	24.2	25.1	25.5
	6H	22.5	23.2	23.0	23.7	24.2	24.0	24.7	24.5	25.2	25.7
	8H	22.6	23.2	23.1	23.7	24.2	24.0	24.6	24.5	25.1	25.6
	12H	22.6	23.2	23.1	23.7	24.2	24.0	24.6	24.5	25.1	25.6
12H	4H	22.1	22.8	22.6	23.3	23.8	23.8	24.5	24.3	25.0	25.5
	6H	22.5	23.2	23.0	23.6	24.2	24.0	24.6	24.5	25.1	25.6
	8H	22.6	23.2	23.1	23.7	24.2	24.0	24.6	24.5	25.1	25.6

Maximum UGR = 25.7

POLAR GRAPH



Maximum Candela = 3904.006 Located At Horizontal Angle = 90, Vertical Angle = .5  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (.5) (Through Max. Cd.)