



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : MCTMBAERNX-24-L47-840-CS-SSCA-DIM-UNV EXAM ONLY.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from ul #15282383.02

[TESTLAB] UL Verification Services Inc.

[ISSUE DATE] 7/8/2024

[TEST DATE] 5/8/2024

[MANUFAC] H E WILLIAMS INC

[LUMCAT] MCTMBAERNx-24-L47/840-CS-SSCA-DIM-UNV EXAM ONLY

[LUMINAIRE] White 2x4 multi-function over-bed medical fixture

[LAMP] 224 LEDs

[BALLAST] OSRAM OTI85W

[OTHER] 24.9 C, 120.003 V, 0.520443 A, 62.0953 W, 0.994243 PF, 59.97 H

[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	8463
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	136
Total Luminaire Watts	62.0953
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.22
Spacing Criterion (Diagonal)	1.32
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.58 ft
Luminous Width (90-270)	1.58 ft
Luminous Height	0.00 ft

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MCTMBAERNX-24-L47-840-CS-SSCA-DIM-UNV EXAM ONLY.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	5430	5473	5502
55	4902	4945	4952
65	4128	4143	4087
75	2892	2871	2896
85	1077	988	868

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MCTMBAERNX-24-L47-840-CS-SSCA-DIM-UNV EXAM ONLY.IES****CANDELA TABULATION**

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
<b>0.0</b>	3383.0	3383.0	3383.0	3383.0	3383.0
<b>0.5</b>	3367.0	3382.0	3387.0	3388.0	3386.0
<b>1.0</b>	3367.0	3381.0	3386.0	3387.0	3386.0
<b>1.5</b>	3366.0	3380.0	3385.0	3386.0	3384.0
<b>2.0</b>	3364.0	3379.0	3384.0	3385.0	3383.0
<b>2.5</b>	3363.0	3377.0	3383.0	3383.0	3383.0
<b>3.0</b>	3361.0	3376.0	3380.0	3381.0	3381.0
<b>3.5</b>	3359.0	3373.0	3378.0	3379.0	3379.0
<b>4.0</b>	3355.0	3371.0	3375.0	3376.0	3375.0
<b>4.5</b>	3352.0	3368.0	3373.0	3373.0	3372.0
<b>5.0</b>	3350.0	3364.0	3369.0	3370.0	3368.0
<b>5.5</b>	3345.0	3360.0	3365.0	3367.0	3364.0
<b>6.0</b>	3341.0	3356.0	3361.0	3363.0	3360.0
<b>6.5</b>	3337.0	3351.0	3357.0	3358.0	3355.0
<b>7.0</b>	3332.0	3346.0	3352.0	3353.0	3351.0
<b>7.5</b>	3326.0	3340.0	3347.0	3348.0	3346.0
<b>8.0</b>	3320.0	3335.0	3341.0	3342.0	3340.0
<b>8.5</b>	3314.0	3328.0	3335.0	3336.0	3334.0
<b>9.0</b>	3308.0	3322.0	3329.0	3329.0	3328.0
<b>9.5</b>	3301.0	3315.0	3322.0	3322.0	3321.0
<b>10.0</b>	3294.0	3307.0	3315.0	3315.0	3313.0
<b>10.5</b>	3286.0	3300.0	3307.0	3308.0	3307.0
<b>11.0</b>	3278.0	3292.0	3299.0	3300.0	3299.0
<b>11.5</b>	3269.0	3284.0	3291.0	3292.0	3290.0
<b>12.0</b>	3261.0	3275.0	3282.0	3284.0	3282.0
<b>12.5</b>	3252.0	3266.0	3272.0	3274.0	3273.0
<b>13.0</b>	3243.0	3256.0	3263.0	3265.0	3264.0
<b>13.5</b>	3233.0	3246.0	3253.0	3255.0	3254.0
<b>14.0</b>	3222.0	3236.0	3243.0	3244.0	3244.0
<b>14.5</b>	3213.0	3226.0	3233.0	3234.0	3233.0
<b>15.0</b>	3202.0	3215.0	3222.0	3222.0	3223.0
<b>15.5</b>	3191.0	3204.0	3211.0	3211.0	3211.0
<b>16.0</b>	3180.0	3192.0	3199.0	3200.0	3199.0
<b>16.5</b>	3167.0	3181.0	3187.0	3187.0	3187.0
<b>17.0</b>	3155.0	3169.0	3175.0	3175.0	3174.0
<b>17.5</b>	3143.0	3157.0	3162.0	3162.0	3162.0
<b>18.0</b>	3130.0	3143.0	3150.0	3149.0	3149.0
<b>18.5</b>	3117.0	3130.0	3136.0	3137.0	3136.0
<b>19.0</b>	3104.0	3116.0	3123.0	3123.0	3123.0
<b>19.5</b>	3090.0	3102.0	3109.0	3109.0	3109.0
<b>20.0</b>	3076.0	3089.0	3095.0	3095.0	3096.0
<b>20.5</b>	3062.0	3073.0	3080.0	3080.0	3081.0
<b>21.0</b>	3047.0	3058.0	3066.0	3065.0	3066.0
<b>21.5</b>	3031.0	3043.0	3050.0	3050.0	3050.0
<b>22.0</b>	3016.0	3028.0	3035.0	3034.0	3034.0
<b>22.5</b>	3000.0	3012.0	3019.0	3018.0	3018.0
<b>23.0</b>	2984.0	2996.0	3003.0	3002.0	3002.0
<b>23.5</b>	2967.0	2979.0	2986.0	2985.0	2984.0
<b>24.0</b>	2951.0	2962.0	2969.0	2968.0	2968.0
<b>24.5</b>	2934.0	2945.0	2952.0	2951.0	2951.0
<b>25.0</b>	2917.0	2927.0	2934.0	2934.0	2934.0
<b>25.5</b>	2900.0	2909.0	2916.0	2917.0	2917.0
<b>26.0</b>	2881.0	2891.0	2898.0	2900.0	2900.0
<b>26.5</b>	2863.0	2873.0	2880.0	2881.0	2882.0

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MCTMBAERNX-24-L47-840-CS-SSCA-DIM-UNV EXAM ONLY.IES****CANDELA TABULATION - (Cont.)**

27.0	2845.0	2854.0	2862.0	2863.0	2864.0
27.5	2826.0	2835.0	2843.0	2845.0	2846.0
28.0	2807.0	2816.0	2825.0	2826.0	2828.0
28.5	2788.0	2797.0	2805.0	2808.0	2809.0
29.0	2769.0	2778.0	2786.0	2788.0	2791.0
29.5	2748.0	2758.0	2766.0	2769.0	2771.0
30.0	2729.0	2738.0	2746.0	2749.0	2752.0
30.5	2709.0	2718.0	2726.0	2729.0	2732.0
31.0	2688.0	2698.0	2706.0	2708.0	2711.0
31.5	2667.0	2677.0	2685.0	2687.0	2690.0
32.0	2646.0	2656.0	2664.0	2666.0	2668.0
32.5	2625.0	2635.0	2642.0	2645.0	2647.0
33.0	2603.0	2614.0	2620.0	2623.0	2626.0
33.5	2581.0	2592.0	2599.0	2602.0	2605.0
34.0	2558.0	2570.0	2577.0	2580.0	2582.0
34.5	2538.0	2547.0	2554.0	2557.0	2560.0
35.0	2515.0	2525.0	2532.0	2535.0	2538.0
35.5	2492.0	2502.0	2509.0	2512.0	2516.0
36.0	2469.0	2479.0	2485.0	2489.0	2494.0
36.5	2446.0	2455.0	2463.0	2467.0	2471.0
37.0	2423.0	2432.0	2440.0	2443.0	2448.0
37.5	2399.0	2408.0	2416.0	2420.0	2426.0
38.0	2375.0	2384.0	2392.0	2397.0	2402.0
38.5	2351.0	2360.0	2368.0	2373.0	2378.0
39.0	2327.0	2336.0	2344.0	2349.0	2354.0
39.5	2301.0	2312.0	2320.0	2325.0	2330.0
40.0	2277.0	2287.0	2295.0	2300.0	2306.0
40.5	2253.0	2262.0	2270.0	2275.0	2281.0
41.0	2228.0	2238.0	2246.0	2251.0	2256.0
41.5	2204.0	2213.0	2221.0	2225.0	2231.0
42.0	2179.0	2188.0	2195.0	2201.0	2205.0
42.5	2153.0	2162.0	2170.0	2176.0	2180.0
43.0	2128.0	2137.0	2145.0	2150.0	2154.0
43.5	2102.0	2111.0	2119.0	2124.0	2129.0
44.0	2076.0	2086.0	2093.0	2099.0	2104.0
44.5	2051.0	2059.0	2067.0	2073.0	2078.0
45.0	2025.0	2033.0	2041.0	2047.0	2052.0
45.5	1999.0	2007.0	2015.0	2021.0	2026.0
46.0	1973.0	1982.0	1989.0	1995.0	1999.0
46.5	1946.0	1955.0	1962.0	1968.0	1973.0
47.0	1919.0	1929.0	1935.0	1941.0	1946.0
47.5	1893.0	1902.0	1908.0	1915.0	1919.0
48.0	1867.0	1875.0	1882.0	1888.0	1891.0
48.5	1840.0	1848.0	1855.0	1860.0	1864.0
49.0	1813.0	1821.0	1828.0	1833.0	1836.0
49.5	1786.0	1794.0	1802.0	1805.0	1809.0
50.0	1758.0	1767.0	1774.0	1777.0	1781.0
50.5	1732.0	1740.0	1746.0	1750.0	1754.0
51.0	1704.0	1713.0	1719.0	1721.0	1726.0
51.5	1677.0	1685.0	1691.0	1694.0	1697.0
52.0	1649.0	1658.0	1664.0	1666.0	1669.0
52.5	1621.0	1630.0	1636.0	1638.0	1641.0
53.0	1594.0	1603.0	1609.0	1610.0	1612.0
53.5	1566.0	1575.0	1581.0	1581.0	1585.0
54.0	1539.0	1547.0	1552.0	1553.0	1556.0
54.5	1511.0	1519.0	1525.0	1524.0	1526.0

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55.0	1483.0	1490.0	1496.0	1495.0	1498.0
55.5	1456.0	1462.0	1468.0	1467.0	1469.0
56.0	1428.0	1434.0	1440.0	1438.0	1439.0
56.5	1399.0	1406.0	1411.0	1409.0	1411.0
57.0	1371.0	1377.0	1383.0	1380.0	1381.0
57.5	1343.0	1349.0	1355.0	1351.0	1352.0
58.0	1315.0	1321.0	1326.0	1321.0	1322.0
58.5	1287.0	1292.0	1297.0	1292.0	1293.0
59.0	1259.0	1263.0	1269.0	1262.0	1263.0
59.5	1230.0	1234.0	1240.0	1233.0	1234.0
60.0	1202.0	1206.0	1211.0	1204.0	1204.0
60.5	1174.0	1178.0	1182.0	1175.0	1174.0
61.0	1146.0	1150.0	1153.0	1146.0	1144.0
61.5	1118.0	1121.0	1125.0	1116.0	1116.0
62.0	1089.0	1093.0	1096.0	1087.0	1086.0
62.5	1061.0	1064.0	1067.0	1058.0	1056.0
63.0	1033.0	1036.0	1039.0	1028.0	1026.0
63.5	1005.0	1008.0	1010.0	998.4	996.6
64.0	976.0	980.2	981.0	968.7	968.0
64.5	947.9	951.6	952.0	939.8	939.3
65.0	920.1	923.3	923.5	910.9	911.0
65.5	892.2	894.7	895.0	882.2	882.9
66.0	864.1	866.8	866.5	853.7	855.0
66.5	836.1	839.3	838.5	825.4	827.6
67.0	807.7	812.0	809.8	797.3	800.4
67.5	779.8	784.5	781.5	769.5	773.8
68.0	752.4	757.2	753.4	743.1	747.8
68.5	727.9	730.1	726.3	718.8	723.2
69.0	700.9	705.4	701.2	694.1	698.5
69.5	674.0	678.5	673.8	668.4	673.7
70.0	647.6	651.4	646.1	642.7	647.4
70.5	620.8	625.1	618.9	617.4	622.1
71.0	594.5	598.2	591.9	592.5	596.7
71.5	568.2	572.0	565.3	567.7	571.2
72.0	542.3	546.1	538.8	543.3	546.0
72.5	516.6	520.9	512.9	518.6	520.6
73.0	491.3	495.8	488.0	494.3	494.8
73.5	466.7	470.8	463.0	470.1	470.3
74.0	442.4	446.1	438.7	446.3	445.3
74.5	418.3	421.7	415.0	422.5	420.5
75.0	394.8	397.8	391.9	398.6	395.3
75.5	371.8	374.2	369.8	375.1	370.7
76.0	349.1	351.4	348.1	351.6	346.1
76.5	326.4	329.1	326.8	328.3	322.0
77.0	304.9	307.3	305.8	305.0	297.9
77.5	284.0	285.9	285.4	282.1	273.8
78.0	263.0	265.3	265.3	259.5	250.0
78.5	242.8	244.9	245.9	237.3	226.6
79.0	223.5	225.2	227.0	215.4	203.9
79.5	204.9	205.9	208.1	194.4	182.5
80.0	187.1	187.2	189.7	173.9	162.3
80.5	170.3	169.5	171.7	154.3	142.7
81.0	153.4	152.7	154.6	135.9	125.4
81.5	137.6	136.6	137.7	118.8	110.2
82.0	122.6	121.4	121.5	103.5	96.5
82.5	108.3	107.2	106.0	89.8	84.1

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MCTMBAERNX-24-L47-840-CS-SSCA-DIM-UNV EXAM ONLY.IES****CANDELA TABULATION - (Cont.)**

83.0	94.8	94.1	91.4	77.7	72.9
83.5	82.0	82.0	77.8	67.0	63.3
84.0	70.4	70.6	65.6	57.6	54.7
84.5	59.5	60.4	54.6	49.3	46.9
85.0	49.5	50.8	45.4	41.9	39.9
85.5	40.5	41.9	37.4	35.1	33.3
86.0	32.6	33.8	30.7	29.1	27.5
86.5	25.5	26.6	24.9	24.0	22.6
87.0	19.5	20.5	19.9	19.6	18.5
87.5	14.5	15.5	15.7	15.9	15.3
88.0	10.4	11.4	12.2	13.0	12.7
88.5	7.5	8.3	9.4	10.3	9.9
89.0	5.4	5.6	6.4	6.7	6.3
89.5	3.3	3.0	3.7	3.7	3.2
90.0	0.0	0.0	0.0	0.0	0.0
90.5	0.0	0.0	0.0	0.0	0.0
91.0	0.0	0.0	0.0	0.0	0.0
91.5	0.0	0.0	0.0	0.0	0.0
92.0	0.0	0.0	0.0	0.0	0.0
92.5	0.0	0.0	0.0	0.0	0.0
93.0	0.0	0.0	0.0	0.0	0.0
93.5	0.0	0.0	0.0	0.0	0.0
94.0	0.0	0.0	0.0	0.0	0.0
94.5	0.0	0.0	0.0	0.0	0.0
95.0	0.0	0.0	0.0	0.0	0.0
95.5	0.0	0.0	0.0	0.0	0.0
96.0	0.0	0.0	0.0	0.0	0.0
96.5	0.0	0.0	0.0	0.0	0.0
97.0	0.0	0.0	0.0	0.0	0.0
97.5	0.0	0.0	0.0	0.0	0.0
98.0	0.0	0.0	0.0	0.0	0.0
98.5	0.0	0.0	0.0	0.0	0.0
99.0	0.0	0.0	0.0	0.0	0.0
99.5	0.0	0.0	0.0	0.0	0.0
100.0	0.0	0.0	0.0	0.0	0.0
100.5	0.0	0.0	0.0	0.0	0.0
101.0	0.0	0.0	0.0	0.0	0.0
101.5	0.0	0.0	0.0	0.0	0.0
102.0	0.0	0.0	0.0	0.0	0.0
102.5	0.0	0.0	0.0	0.0	0.0
103.0	0.0	0.0	0.0	0.0	0.0
103.5	0.0	0.0	0.0	0.0	0.0
104.0	0.0	0.0	0.0	0.0	0.0
104.5	0.0	0.0	0.0	0.0	0.0
105.0	0.0	0.0	0.0	0.0	0.0
105.5	0.0	0.0	0.0	0.0	0.0
106.0	0.0	0.0	0.0	0.0	0.0
106.5	0.0	0.0	0.0	0.0	0.0
107.0	0.0	0.0	0.0	0.0	0.0
107.5	0.0	0.0	0.0	0.0	0.0
108.0	0.0	0.0	0.0	0.0	0.0
108.5	0.0	0.0	0.0	0.0	0.0
109.0	0.0	0.0	0.0	0.0	0.0
109.5	0.0	0.0	0.0	0.0	0.0
110.0	0.0	0.0	0.0	0.0	0.0
110.5	0.0	0.0	0.0	0.0	0.0

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111.0	0.0	0.0	0.0	0.0	0.0
111.5	0.0	0.0	0.0	0.0	0.0
112.0	0.0	0.0	0.0	0.0	0.0
112.5	0.0	0.0	0.0	0.0	0.0
113.0	0.0	0.0	0.0	0.0	0.0
113.5	0.0	0.0	0.0	0.0	0.0
114.0	0.0	0.0	0.0	0.0	0.0
114.5	0.0	0.0	0.0	0.0	0.0
115.0	0.0	0.0	0.0	0.0	0.0
115.5	0.0	0.0	0.0	0.0	0.0
116.0	0.0	0.0	0.0	0.0	0.0
116.5	0.0	0.0	0.0	0.0	0.0
117.0	0.0	0.0	0.0	0.0	0.0
117.5	0.0	0.0	0.0	0.0	0.0
118.0	0.0	0.0	0.0	0.0	0.0
118.5	0.0	0.0	0.0	0.0	0.0
119.0	0.0	0.0	0.0	0.0	0.0
119.5	0.0	0.0	0.0	0.0	0.0
120.0	0.0	0.0	0.0	0.0	0.0
120.5	0.0	0.0	0.0	0.0	0.0
121.0	0.0	0.0	0.0	0.0	0.0
121.5	0.0	0.0	0.0	0.0	0.0
122.0	0.0	0.0	0.0	0.0	0.0
122.5	0.0	0.0	0.0	0.0	0.0
123.0	0.0	0.0	0.0	0.0	0.0
123.5	0.0	0.0	0.0	0.0	0.0
124.0	0.0	0.0	0.0	0.0	0.0
124.5	0.0	0.0	0.0	0.0	0.0
125.0	0.0	0.0	0.0	0.0	0.0
125.5	0.0	0.0	0.0	0.0	0.0
126.0	0.0	0.0	0.0	0.0	0.0
126.5	0.0	0.0	0.0	0.0	0.0
127.0	0.0	0.0	0.0	0.0	0.0
127.5	0.0	0.0	0.0	0.0	0.0
128.0	0.0	0.0	0.0	0.0	0.0
128.5	0.0	0.0	0.0	0.0	0.0
129.0	0.0	0.0	0.0	0.0	0.0
129.5	0.0	0.0	0.0	0.0	0.0
130.0	0.0	0.0	0.0	0.0	0.0
130.5	0.0	0.0	0.0	0.0	0.0
131.0	0.0	0.0	0.0	0.0	0.0
131.5	0.0	0.0	0.0	0.0	0.0
132.0	0.0	0.0	0.0	0.0	0.0
132.5	0.0	0.0	0.0	0.0	0.0
133.0	0.0	0.0	0.0	0.0	0.0
133.5	0.0	0.0	0.0	0.0	0.0
134.0	0.0	0.0	0.0	0.0	0.0
134.5	0.0	0.0	0.0	0.0	0.0
135.0	0.0	0.0	0.0	0.0	0.0
135.5	0.0	0.0	0.0	0.0	0.0
136.0	0.0	0.0	0.0	0.0	0.0
136.5	0.0	0.0	0.0	0.0	0.0
137.0	0.0	0.0	0.0	0.0	0.0
137.5	0.0	0.0	0.0	0.0	0.0
138.0	0.0	0.0	0.0	0.0	0.0
138.5	0.0	0.0	0.0	0.0	0.0

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : MCTMBAERNX-24-L47-840-CS-SSCA-DIM-UNV EXAM ONLY.IES

## CANDELA TABULATION - (Cont.)

139.0	0.0	0.0	0.0	0.0	0.0
139.5	0.0	0.0	0.0	0.0	0.0
140.0	0.0	0.0	0.0	0.0	0.0
140.5	0.0	0.0	0.0	0.0	0.0
141.0	0.0	0.0	0.0	0.0	0.0
141.5	0.0	0.0	0.0	0.0	0.0
142.0	0.0	0.0	0.0	0.0	0.0
142.5	0.0	0.0	0.0	0.0	0.0
143.0	0.0	0.0	0.0	0.0	0.0
143.5	0.0	0.0	0.0	0.0	0.0
144.0	0.0	0.0	0.0	0.0	0.0
144.5	0.0	0.0	0.0	0.0	0.0
145.0	0.0	0.0	0.0	0.0	0.0
145.5	0.0	0.0	0.0	0.0	0.0
146.0	0.0	0.0	0.0	0.0	0.0
146.5	0.0	0.0	0.0	0.0	0.0
147.0	0.0	0.0	0.0	0.0	0.0
147.5	0.0	0.0	0.0	0.0	0.0
148.0	0.0	0.0	0.0	0.0	0.0
148.5	0.0	0.0	0.0	0.0	0.0
149.0	0.0	0.0	0.0	0.0	0.0
149.5	0.0	0.0	0.0	0.0	0.0
150.0	0.0	0.0	0.0	0.0	0.0
150.5	0.0	0.0	0.0	0.0	0.0
151.0	0.0	0.0	0.0	0.0	0.0
151.5	0.0	0.0	0.0	0.0	0.0
152.0	0.0	0.0	0.0	0.0	0.0
152.5	0.0	0.0	0.0	0.0	0.0
153.0	0.0	0.0	0.0	0.0	0.0
153.5	0.0	0.0	0.0	0.0	0.0
154.0	0.0	0.0	0.0	0.0	0.0
154.5	0.0	0.0	0.0	0.0	0.0
155.0	0.0	0.0	0.0	0.0	0.0
155.5	0.0	0.0	0.0	0.0	0.0
156.0	0.0	0.0	0.0	0.0	0.0
156.5	0.0	0.0	0.0	0.0	0.0
157.0	0.0	0.0	0.0	0.0	0.0
157.5	0.0	0.0	0.0	0.0	0.0
158.0	0.0	0.0	0.0	0.0	0.0
158.5	0.0	0.0	0.0	0.0	0.0
159.0	0.0	0.0	0.0	0.0	0.0
159.5	0.0	0.0	0.0	0.0	0.0
160.0	0.0	0.0	0.0	0.0	0.0
160.5	0.0	0.0	0.0	0.0	0.0
161.0	0.0	0.0	0.0	0.0	0.0
161.5	0.0	0.0	0.0	0.0	0.0
162.0	0.0	0.0	0.0	0.0	0.0
162.5	0.0	0.0	0.0	0.0	0.0
163.0	0.0	0.0	0.0	0.0	0.0
163.5	0.0	0.0	0.0	0.0	0.0
164.0	0.0	0.0	0.0	0.0	0.0
164.5	0.0	0.0	0.0	0.0	0.0
165.0	0.0	0.0	0.0	0.0	0.0
165.5	0.0	0.0	0.0	0.0	0.0
166.0	0.0	0.0	0.0	0.0	0.0
166.5	0.0	0.0	0.0	0.0	0.0



**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MCTMBAERNX-24-L47-840-CS-SSCA-DIM-UNV EXAM ONLY.IES****CANDELA TABULATION - (Cont.)**

167.0	0.0	0.0	0.0	0.0	0.0
167.5	0.0	0.0	0.0	0.0	0.0
168.0	0.0	0.0	0.0	0.0	0.0
168.5	0.0	0.0	0.0	0.0	0.0
169.0	0.0	0.0	0.0	0.0	0.0
169.5	0.0	0.0	0.0	0.0	0.0
170.0	0.0	0.0	0.0	0.0	0.0
170.5	0.0	0.0	0.0	0.0	0.0
171.0	0.0	0.0	0.0	0.0	0.0
171.5	0.0	0.0	0.0	0.0	0.0
172.0	0.0	0.0	0.0	0.0	0.0
172.5	0.0	0.0	0.0	0.0	0.0
173.0	0.0	0.0	0.0	0.0	0.0
173.5	0.0	0.0	0.0	0.0	0.0
174.0	0.0	0.0	0.0	0.0	0.0
174.5	0.0	0.0	0.0	0.0	0.0
175.0	0.0	0.0	0.0	0.0	0.0
175.5	0.0	0.0	0.0	0.0	0.0
176.0	0.0	0.0	0.0	0.0	0.0
176.5	0.0	0.0	0.0	0.0	0.0
177.0	0.0	0.0	0.0	0.0	0.0
177.5	0.0	0.0	0.0	0.0	0.0
178.0	0.0	0.0	0.0	0.0	0.0
178.5	0.0	0.0	0.0	0.0	0.0
179.0	0.0	0.0	0.0	0.0	0.0
179.5	0.0	0.0	0.0	0.0	0.0
180.0	0.0	0.0	0.0	0.0	0.0

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MCTMBAERNX-24-L47-840-CS-SSCA-DIM-UNV EXAM ONLY.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1226.65	N.A.	14.50
0-30	2575.97	N.A.	30.40
0-40	4156.84	N.A.	49.10
0-60	7062.18	N.A.	83.50
0-80	8396.00	N.A.	99.20
0-90	8462.73	N.A.	100.00
10-90	8143.22	N.A.	96.20
20-40	2930.19	N.A.	34.60
20-50	4502.32	N.A.	53.20
40-70	3815.84	N.A.	45.10
60-80	1333.83	N.A.	15.80
70-80	423.33	N.A.	5.00
80-90	66.72	N.A.	0.80
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	8462.73	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	319.51
10-20	907.15
20-30	1349.32
30-40	1580.87
40-50	1572.13
50-60	1333.21
60-70	910.50
70-80	423.33
80-90	66.72
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 : MCTMBAERNX-24-L47-840-CS-SSCA-DIM-UNV EXAM 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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	105	101	98	107	103	99	96	99	96	93	95	93	90	91	89	88	86
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62
4	84	73	64	58	82	71	64	58	69	62	57	67	61	56	65	59	55	53
5	78	65	57	50	76	64	56	50	62	55	49	60	54	49	58	53	48	46
6	72	59	50	44	70	58	50	44	56	49	43	55	48	43	53	47	43	41
7	67	54	45	39	65	53	45	39	51	44	39	50	43	38	48	43	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	45	39	34	32
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	29
10	54	42	34	29	53	41	34	29	40	33	28	39	33	28	38	32	28	26

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : MCTMBAERNX-24-L47-840-CS-SSCA-DIM-UNV EXAM 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	17.5	19.1	17.9	19.4	19.7	UGR Viewed Endwise	17.5	19.1	17.9	19.4	19.7
	3H	18.9	20.4	19.3	20.7	21.0		18.9	20.3	19.3	20.7	21.0
	4H	19.4	20.7	19.8	21.0	21.4		19.3	20.7	19.7	21.0	21.4
	6H	19.6	20.8	20.0	21.2	21.6		19.5	20.8	19.9	21.1	21.5
	8H	19.6	20.8	20.0	21.2	21.6		19.6	20.7	20.0	21.1	21.5
	12H	19.6	20.7	20.0	21.1	21.5		19.5	20.7	20.0	21.0	21.5

4H	2H	18.0	19.4	18.4	19.7	20.1	18.0	19.4	18.4	19.7	20.1
	3H	19.7	20.8	20.1	21.2	21.6	19.6	20.7	20.0	21.1	21.5
	4H	20.2	21.2	20.6	21.6	22.0	20.2	21.2	20.6	21.6	22.0
	6H	20.5	21.3	20.9	21.8	22.2	20.4	21.3	20.9	21.7	22.2
	8H	20.5	21.3	21.0	21.8	22.2	20.4	21.3	20.9	21.7	22.2
	12H	20.5	21.3	21.0	21.7	22.2	20.4	21.2	20.9	21.7	22.1

8H	4H	20.3	21.2	20.8	21.6	22.1	20.3	21.1	20.8	21.6	22.1
	6H	20.7	21.4	21.2	21.9	22.3	20.7	21.3	21.2	21.8	22.3
	8H	20.8	21.4	21.3	21.9	22.4	20.7	21.3	21.2	21.8	22.3
	12H	20.8	21.3	21.3	21.8	22.4	20.7	21.2	21.2	21.7	22.3

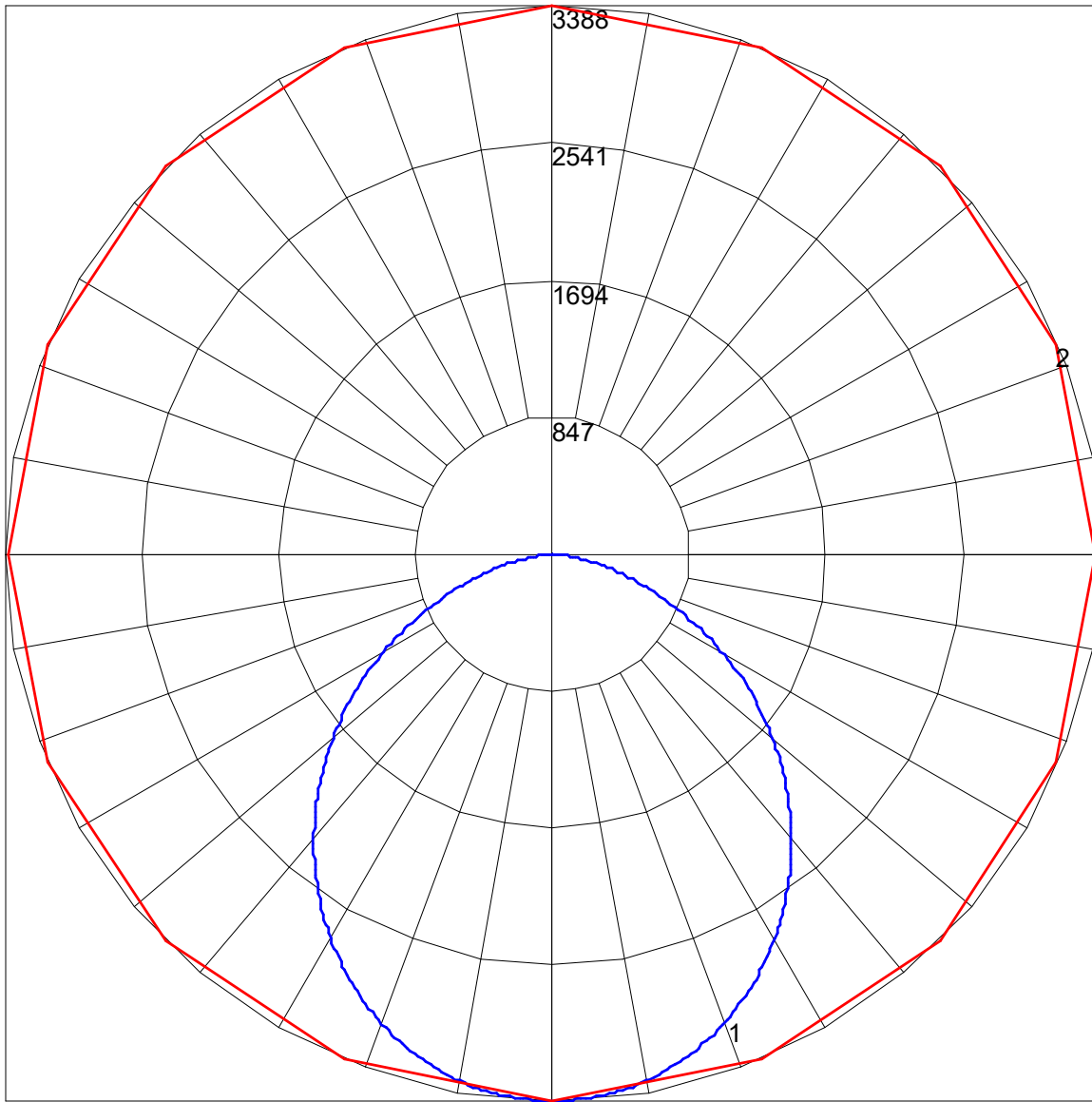
12H	4H	20.3	21.1	20.8	21.5	22.0	20.3	21.1	20.8	21.5	22.0
	6H	20.7	21.3	21.2	21.8	22.3	20.7	21.3	21.2	21.7	22.3
	8H	20.8	21.3	21.3	21.8	22.4	20.7	21.3	21.2	21.7	22.3

Maximum UGR = 22.4

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : MCTMBAERNX-24-L47-840-CS-SSCA-DIM-UNV EXAM ONLY.IES

## POLAR GRAPH



Maximum Candela = 3388 Located At Horizontal Angle = 67.5, Vertical Angle = .5

# 1 - Vertical Plane Through Horizontal Angles (67.5 - 247.5) (Through Max. Cd.)

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