



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : MCTMBAERNX-24-L47-840-CS-SSCA-DIM-UNV ALL ON.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from UL #15318387.01

[TESTLAB] UL Verification Services Inc.

[ISSUE DATE] 7/8/2024

[TEST DATE] 6/6/2024

[MANUFAC] H E WILLIAMS INC

[LUMCAT] MCTMAERNx-24-L47/840-CS-SSCA-DIM-UNV ALL ON

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

[LAMP] 256 LEDs

[BALLAST] 4 x OSRAM/ELDOLED - OSRAM OTI20W (Nurse), OSRAM OTI30W (Ambi

[MORE] OSRAM OTI20W (Reading), OSRAM OTI85W (Exam)

[OTHER] 25 C, 120.055 V, 1.03239 A, 123.536 W, 0.996716 PF, 59.97 Hz

[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	15397
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	125
Total Luminaire Watts	123.536
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.34
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 ALL ON.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	9543	9905	10468
55	8657	9209	9844
65	7331	8080	8309
75	5178	5711	5626
85	2058	1738	1534

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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	5918.0	5918.0	5918.0	5918.0	5918.0
0.5	5929.0	5912.0	5907.0	5926.0	5930.0
1.0	5927.0	5910.0	5906.0	5924.0	5929.0
1.5	5926.0	5909.0	5905.0	5923.0	5928.0
2.0	5924.0	5907.0	5902.0	5921.0	5926.0
2.5	5921.0	5904.0	5899.0	5918.0	5924.0
3.0	5918.0	5901.0	5896.0	5915.0	5921.0
3.5	5914.0	5897.0	5892.0	5912.0	5918.0
4.0	5908.0	5892.0	5888.0	5908.0	5913.0
4.5	5902.0	5887.0	5883.0	5903.0	5908.0
5.0	5896.0	5881.0	5877.0	5898.0	5903.0
5.5	5889.0	5875.0	5871.0	5891.0	5896.0
6.0	5880.0	5867.0	5864.0	5884.0	5890.0
6.5	5871.0	5859.0	5857.0	5878.0	5884.0
7.0	5863.0	5850.0	5849.0	5870.0	5876.0
7.5	5853.0	5841.0	5840.0	5861.0	5868.0
8.0	5842.0	5831.0	5831.0	5852.0	5860.0
8.5	5830.0	5820.0	5820.0	5842.0	5851.0
9.0	5818.0	5808.0	5809.0	5832.0	5841.0
9.5	5806.0	5796.0	5798.0	5822.0	5831.0
10.0	5793.0	5783.0	5786.0	5811.0	5820.0
10.5	5779.0	5770.0	5773.0	5799.0	5809.0
11.0	5764.0	5755.0	5760.0	5788.0	5797.0
11.5	5749.0	5741.0	5746.0	5775.0	5785.0
12.0	5733.0	5725.0	5732.0	5761.0	5772.0
12.5	5717.0	5710.0	5717.0	5748.0	5759.0
13.0	5700.0	5693.0	5701.0	5733.0	5745.0
13.5	5682.0	5676.0	5685.0	5718.0	5731.0
14.0	5664.0	5659.0	5668.0	5702.0	5715.0
14.5	5645.0	5641.0	5651.0	5686.0	5699.0
15.0	5627.0	5622.0	5633.0	5669.0	5683.0
15.5	5607.0	5602.0	5615.0	5652.0	5666.0
16.0	5587.0	5582.0	5597.0	5634.0	5649.0
16.5	5566.0	5561.0	5577.0	5615.0	5630.0
17.0	5544.0	5540.0	5557.0	5596.0	5612.0
17.5	5522.0	5518.0	5535.0	5576.0	5593.0
18.0	5499.0	5495.0	5514.0	5556.0	5573.0
18.5	5477.0	5473.0	5492.0	5536.0	5553.0
19.0	5452.0	5449.0	5469.0	5515.0	5532.0
19.5	5428.0	5425.0	5446.0	5493.0	5513.0
20.0	5402.0	5400.0	5423.0	5471.0	5491.0
20.5	5376.0	5375.0	5399.0	5448.0	5469.0
21.0	5350.0	5349.0	5375.0	5425.0	5447.0
21.5	5323.0	5322.0	5350.0	5402.0	5425.0
22.0	5295.0	5295.0	5325.0	5378.0	5402.0
22.5	5267.0	5267.0	5298.0	5354.0	5379.0
23.0	5238.0	5240.0	5271.0	5329.0	5355.0
23.5	5208.0	5212.0	5244.0	5304.0	5330.0
24.0	5181.0	5182.0	5216.0	5278.0	5305.0
24.5	5151.0	5153.0	5188.0	5252.0	5281.0
25.0	5120.0	5123.0	5160.0	5227.0	5256.0
25.5	5088.0	5092.0	5131.0	5199.0	5229.0
26.0	5056.0	5061.0	5102.0	5172.0	5203.0
26.5	5025.0	5030.0	5072.0	5144.0	5177.0

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

27.0	4992.0	4998.0	5042.0	5116.0	5151.0
27.5	4959.0	4965.0	5012.0	5088.0	5122.0
28.0	4926.0	4932.0	4981.0	5059.0	5095.0
28.5	4891.0	4898.0	4949.0	5030.0	5066.0
29.0	4856.0	4865.0	4917.0	5000.0	5038.0
29.5	4821.0	4831.0	4885.0	4970.0	5009.0
30.0	4786.0	4796.0	4853.0	4940.0	4979.0
30.5	4751.0	4762.0	4819.0	4909.0	4949.0
31.0	4715.0	4727.0	4785.0	4877.0	4919.0
31.5	4679.0	4692.0	4751.0	4846.0	4887.0
32.0	4643.0	4656.0	4717.0	4813.0	4855.0
32.5	4606.0	4620.0	4682.0	4780.0	4824.0
33.0	4568.0	4583.0	4647.0	4747.0	4792.0
33.5	4530.0	4546.0	4611.0	4713.0	4759.0
34.0	4491.0	4508.0	4575.0	4679.0	4726.0
34.5	4451.0	4470.0	4539.0	4645.0	4693.0
35.0	4411.0	4431.0	4503.0	4609.0	4659.0
35.5	4371.0	4392.0	4465.0	4575.0	4625.0
36.0	4331.0	4353.0	4428.0	4539.0	4592.0
36.5	4290.0	4313.0	4390.0	4503.0	4557.0
37.0	4249.0	4273.0	4351.0	4467.0	4522.0
37.5	4208.0	4233.0	4313.0	4430.0	4487.0
38.0	4166.0	4192.0	4273.0	4393.0	4452.0
38.5	4125.0	4152.0	4234.0	4356.0	4415.0
39.0	4083.0	4110.0	4194.0	4318.0	4378.0
39.5	4040.0	4068.0	4154.0	4280.0	4340.0
40.0	3997.0	4025.0	4114.0	4242.0	4303.0
40.5	3954.0	3983.0	4074.0	4203.0	4266.0
41.0	3912.0	3940.0	4033.0	4164.0	4227.0
41.5	3868.0	3897.0	3991.0	4124.0	4188.0
42.0	3825.0	3854.0	3950.0	4083.0	4148.0
42.5	3781.0	3811.0	3908.0	4043.0	4109.0
43.0	3737.0	3768.0	3865.0	4002.0	4068.0
43.5	3693.0	3724.0	3823.0	3961.0	4028.0
44.0	3649.0	3679.0	3780.0	3919.0	3986.0
44.5	3603.0	3635.0	3738.0	3877.0	3946.0
45.0	3559.0	3591.0	3694.0	3836.0	3904.0
45.5	3514.0	3546.0	3650.0	3794.0	3861.0
46.0	3468.0	3501.0	3606.0	3751.0	3819.0
46.5	3422.0	3457.0	3562.0	3707.0	3776.0
47.0	3376.0	3412.0	3519.0	3664.0	3732.0
47.5	3330.0	3366.0	3475.0	3620.0	3688.0
48.0	3283.0	3321.0	3431.0	3575.0	3644.0
48.5	3237.0	3275.0	3387.0	3531.0	3599.0
49.0	3191.0	3228.0	3342.0	3486.0	3553.0
49.5	3144.0	3182.0	3296.0	3441.0	3508.0
50.0	3098.0	3136.0	3252.0	3395.0	3462.0
50.5	3051.0	3089.0	3206.0	3350.0	3416.0
51.0	3004.0	3043.0	3160.0	3304.0	3369.0
51.5	2956.0	2996.0	3114.0	3257.0	3323.0
52.0	2908.0	2949.0	3069.0	3209.0	3275.0
52.5	2860.0	2902.0	3023.0	3162.0	3226.0
53.0	2812.0	2854.0	2975.0	3115.0	3177.0
53.5	2763.0	2807.0	2928.0	3067.0	3129.0
54.0	2716.0	2759.0	2881.0	3019.0	3079.0
54.5	2667.0	2711.0	2833.0	2970.0	3028.0

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55.0	2619.0	2663.0	2786.0	2922.0	2978.0
55.5	2572.0	2614.0	2739.0	2872.0	2926.0
56.0	2522.0	2566.0	2691.0	2823.0	2873.0
56.5	2473.0	2517.0	2643.0	2772.0	2819.0
57.0	2424.0	2468.0	2595.0	2721.0	2765.0
57.5	2376.0	2419.0	2546.0	2670.0	2711.0
58.0	2327.0	2370.0	2498.0	2618.0	2656.0
58.5	2277.0	2322.0	2449.0	2565.0	2602.0
59.0	2227.0	2272.0	2400.0	2512.0	2547.0
59.5	2177.0	2223.0	2351.0	2459.0	2491.0
60.0	2128.0	2174.0	2301.0	2405.0	2434.0
60.5	2079.0	2124.0	2252.0	2351.0	2377.0
61.0	2030.0	2075.0	2202.0	2297.0	2319.0
61.5	1981.0	2026.0	2153.0	2241.0	2260.0
62.0	1932.0	1976.0	2103.0	2185.0	2203.0
62.5	1882.0	1927.0	2053.0	2129.0	2145.0
63.0	1832.0	1878.0	2003.0	2073.0	2085.0
63.5	1782.0	1829.0	1953.0	2016.0	2026.0
64.0	1733.0	1780.0	1903.0	1959.0	1969.0
64.5	1684.0	1729.0	1851.0	1903.0	1911.0
65.0	1634.0	1680.0	1801.0	1845.0	1852.0
65.5	1583.0	1631.0	1750.0	1788.0	1794.0
66.0	1534.0	1582.0	1698.0	1731.0	1736.0
66.5	1485.0	1533.0	1646.0	1674.0	1679.0
67.0	1437.0	1484.0	1595.0	1617.0	1620.0
67.5	1388.0	1436.0	1543.0	1560.0	1564.0
68.0	1340.0	1388.0	1491.0	1505.0	1509.0
68.5	1292.0	1340.0	1438.0	1450.0	1453.0
69.0	1244.0	1292.0	1386.0	1394.0	1397.0
69.5	1197.0	1245.0	1334.0	1340.0	1343.0
70.0	1150.0	1198.0	1282.0	1286.0	1287.0
70.5	1103.0	1152.0	1229.0	1233.0	1233.0
71.0	1057.0	1105.0	1177.0	1180.0	1180.0
71.5	1011.0	1059.0	1125.0	1127.0	1127.0
72.0	965.4	1013.0	1074.0	1075.0	1073.0
72.5	919.9	968.4	1023.0	1023.0	1022.0
73.0	875.8	923.9	973.3	972.7	972.3
73.5	832.0	879.2	923.7	922.8	922.1
74.0	789.6	835.1	874.0	873.8	870.3
74.5	748.7	792.9	825.4	826.2	820.0
75.0	706.9	750.8	779.6	777.9	768.0
75.5	668.7	710.1	736.4	730.6	718.3
76.0	627.8	669.8	693.1	684.5	668.1
76.5	587.6	630.7	649.3	636.2	614.1
77.0	549.4	591.0	605.8	585.8	560.2
77.5	511.6	552.3	564.0	536.6	505.8
78.0	475.9	514.3	523.4	486.7	452.0
78.5	440.3	477.0	483.0	437.1	404.1
79.0	405.5	440.7	443.5	388.7	360.4
79.5	372.9	405.2	405.0	344.4	322.9
80.0	341.9	370.2	367.8	304.6	287.1
80.5	310.7	336.5	329.9	269.8	254.8
81.0	281.9	304.0	292.6	238.0	225.0
81.5	253.4	272.8	255.4	209.2	198.4
82.0	227.0	243.1	219.8	183.0	174.0
82.5	201.8	214.8	188.5	159.3	151.9

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

83.0	177.3	188.3	160.8	138.0	132.1
83.5	154.4	163.8	136.5	118.7	114.3
84.0	132.9	141.0	115.2	101.8	98.4
84.5	112.8	119.7	96.4	86.7	83.9
85.0	94.6	99.7	79.9	73.0	70.5
85.5	78.0	80.9	65.6	60.9	58.3
86.0	63.0	63.9	53.4	50.1	47.7
86.5	49.4	49.6	43.1	40.6	38.4
87.0	37.7	38.0	34.0	32.3	30.4
87.5	28.3	28.6	26.3	25.4	23.7
88.0	20.7	21.2	20.0	19.6	18.2
88.5	15.2	15.6	14.8	14.8	13.9
89.0	10.1	10.6	9.7	9.0	8.4
89.5	4.6	5.7	4.4	3.4	3.0
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

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

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 ALL ON.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 ALL ON.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 ALL ON.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	2150.96	N.A.	14.00
0-30	4534.17	N.A.	29.40
0-40	7359.82	N.A.	47.80
0-60	12713.84	N.A.	82.60
0-80	15273.51	N.A.	99.20
0-90	15396.53	N.A.	100.00
10-90	14837.35	N.A.	96.40
20-40	5208.86	N.A.	33.80
20-50	8071.04	N.A.	52.40
40-70	7101.38	N.A.	46.10
60-80	2559.67	N.A.	16.60
70-80	812.31	N.A.	5.30
80-90	123.02	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	15396.53	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	559.18
10-20	1591.78
20-30	2383.2
30-40	2825.65
40-50	2862.18
50-60	2491.84
60-70	1747.36
70-80	812.31
80-90	123.02
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 ALL ON.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	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77	84	79	76	81	77	74	72
3	91	81	73	67	89	80	72	67	77	70	65	74	69	64	71	67	63	61
4	84	72	64	57	82	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	63	55	49	61	54	49	59	53	48	58	52	48	45
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	51	43	38	49	42	38	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	28
10	54	41	33	28	53	40	33	28	39	33	28	39	32	28	38	32	28	26

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : MCTMBAERNX-24-L47-840-CS-SSCA-DIM-UNV ALL ON.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	19.5	21.1	19.8	21.4	21.7	20.2	21.8	20.5	22.1	22.4
	3H	20.9	22.4	21.3	22.7	23.1	21.6	23.1	22.0	23.4	23.8
	4H	21.4	22.7	21.8	23.1	23.4	22.0	23.4	22.4	23.7	24.1
	6H	21.6	22.8	22.0	23.2	23.6	22.2	23.5	22.6	23.8	24.2
	8H	21.6	22.8	22.1	23.2	23.6	22.2	23.4	22.6	23.8	24.2
	12H	21.6	22.8	22.1	23.2	23.6	22.2	23.3	22.6	23.7	24.1

### UGR Viewed Endwise

4H	2H	20.1	21.5	20.5	21.8	22.2	20.7	22.0	21.1	22.4	22.8
	3H	21.8	22.9	22.2	23.3	23.7	22.3	23.5	22.7	23.9	24.3
	4H	22.3	23.3	22.7	23.7	24.2	22.8	23.9	23.3	24.3	24.7
	6H	22.6	23.5	23.1	23.9	24.4	23.1	23.9	23.5	24.4	24.8
	8H	22.7	23.5	23.1	23.9	24.4	23.1	23.9	23.5	24.3	24.8
	12H	22.7	23.4	23.2	23.9	24.4	23.1	23.8	23.6	24.3	24.8

8H	4H	22.5	23.3	23.0	23.8	24.2	23.0	23.8	23.5	24.3	24.7
	6H	22.9	23.6	23.4	24.1	24.5	23.3	24.0	23.8	24.5	24.9
	8H	23.0	23.6	23.5	24.1	24.6	23.3	23.9	23.8	24.4	24.9
	12H	23.0	23.6	23.5	24.1	24.6	23.3	23.9	23.8	24.3	24.9

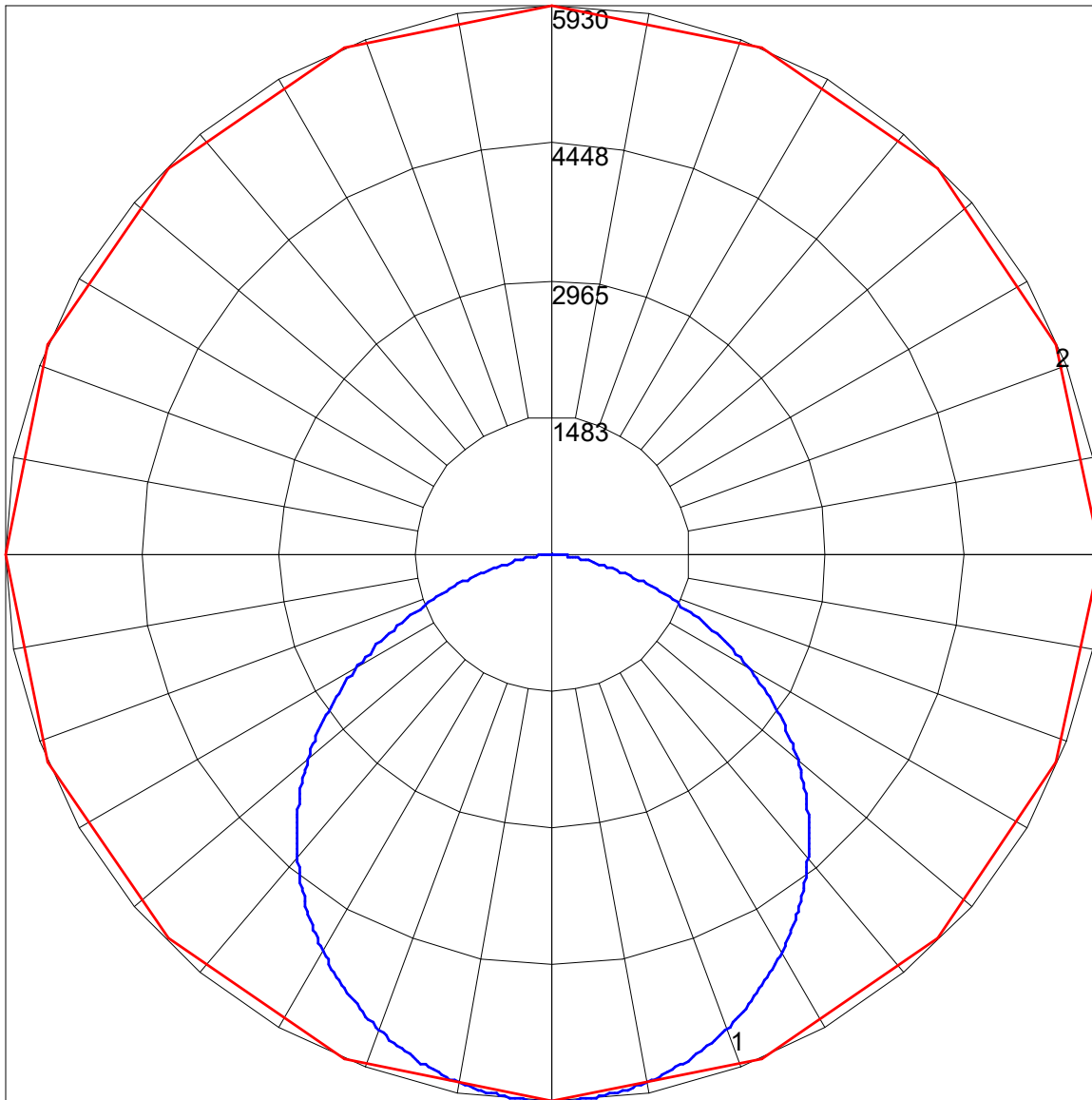
12H	4H	22.5	23.3	23.0	23.7	24.2	23.0	23.8	23.5	24.2	24.7
	6H	22.9	23.5	23.4	24.0	24.5	23.3	23.9	23.8	24.4	24.9
	8H	23.0	23.6	23.5	24.0	24.6	23.3	23.9	23.8	24.4	24.9

Maximum UGR = 24.9

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : MCTMBAERNX-24-L47-840-CS-SSCA-DIM-UNV ALL ON.IES

## POLAR GRAPH



Maximum Candela = 5930 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.)