



IES INDOOR REPORT

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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from UL #15282383.03

[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 READING ONLY

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

[LAMP] 48 LEDs

[BALLAST] OSRAM OTI20W

[OTHER] 25 C, 120.062 V, 0.165763 A, 19.7451 W, 0.992128 PF, 59.9699 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	2116
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	107
Total Luminaire Watts	19.7451
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.20
Spacing Criterion (Diagonal)	1.26
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 READING ONLY.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1399	1358	1390
55	1214	1153	1108
65	992	877	764
75	729	527	444
85	417	235	182

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

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	932.40	932.40	932.40	932.40	932.40
0.5	956.50	928.30	919.10	935.10	937.40
1.0	956.40	928.20	918.80	934.60	937.30
1.5	956.00	927.90	918.50	934.60	937.10
2.0	955.80	927.50	918.10	934.10	936.80
2.5	955.20	926.90	917.70	933.70	936.40
3.0	954.50	926.30	916.90	933.20	935.70
3.5	953.50	925.60	916.00	932.60	935.00
4.0	952.60	924.50	914.90	931.70	934.20
4.5	951.50	923.50	914.00	930.80	933.00
5.0	950.00	922.30	913.00	929.60	932.20
5.5	948.30	921.10	911.90	928.50	931.10
6.0	946.40	919.70	910.70	927.50	930.20
6.5	944.60	918.20	909.20	926.20	928.80
7.0	942.70	916.50	907.70	924.60	927.40
7.5	940.50	914.80	906.20	922.80	925.90
8.0	938.20	912.90	904.60	921.00	924.50
8.5	935.50	910.80	902.60	919.20	922.60
9.0	933.10	908.70	900.70	917.30	920.80
9.5	930.70	906.50	898.40	915.30	918.60
10.0	928.00	904.20	896.20	913.20	916.60
10.5	925.10	901.80	893.90	911.00	914.60
11.0	922.50	899.00	891.50	908.80	912.20
11.5	919.70	896.20	889.00	906.50	909.70
12.0	916.50	893.50	886.40	903.80	907.10
12.5	913.70	890.60	883.90	901.20	904.60
13.0	910.60	887.50	881.00	898.50	902.10
13.5	907.30	884.40	878.10	895.70	899.50
14.0	903.60	881.00	875.30	892.90	896.60
14.5	899.90	877.50	871.90	889.60	893.70
15.0	896.20	873.80	868.70	886.30	890.70
15.5	892.70	870.10	865.30	883.20	887.50
16.0	888.70	866.40	861.70	879.70	884.30
16.5	885.40	862.40	858.00	876.50	880.90
17.0	880.90	858.30	854.20	873.00	877.30
17.5	876.60	854.10	849.90	869.20	873.80
18.0	872.60	849.60	845.90	865.50	870.10
18.5	868.30	845.30	841.60	861.50	866.30
19.0	863.90	840.90	837.20	857.50	862.90
19.5	859.60	836.20	832.70	853.20	859.00
20.0	854.70	831.30	828.30	849.10	854.90
20.5	849.60	826.70	824.00	844.60	850.80
21.0	844.50	822.40	819.20	840.00	846.40
21.5	839.30	817.40	814.40	835.60	842.10
22.0	834.10	812.30	809.50	830.70	837.70
22.5	830.20	807.50	805.00	825.90	833.00
23.0	825.20	802.80	800.40	821.10	828.20
23.5	819.50	797.40	795.20	816.30	823.10
24.0	814.00	791.80	790.10	811.20	818.20
24.5	808.30	786.20	785.20	805.80	813.00
25.0	802.50	780.50	779.80	800.40	807.40
25.5	796.70	774.60	774.30	794.90	802.00
26.0	790.40	768.80	768.50	789.20	796.60
26.5	784.40	762.90	762.80	783.50	790.70

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

27.0	778.20	756.80	757.00	778.40	785.00
27.5	771.70	750.70	751.10	772.70	779.00
28.0	765.20	744.40	745.10	766.70	773.00
28.5	758.60	738.30	739.00	761.00	766.70
29.0	751.90	731.90	732.90	755.50	760.40
29.5	745.10	725.50	726.60	748.90	753.90
30.0	738.50	719.10	720.20	742.50	747.60
30.5	731.90	712.60	713.90	736.10	741.40
31.0	725.20	706.50	707.60	729.50	736.50
31.5	718.60	699.90	701.10	722.70	730.10
32.0	711.80	693.30	694.40	716.00	723.40
32.5	705.00	686.70	687.70	709.20	716.60
33.0	698.30	680.10	681.00	702.30	709.60
33.5	691.50	673.30	674.40	695.30	704.70
34.0	684.40	666.70	667.60	688.50	697.30
34.5	677.30	659.90	660.70	682.10	690.20
35.0	670.20	652.80	653.70	675.00	683.00
35.5	663.00	646.00	646.90	667.60	675.50
36.0	655.70	639.00	640.90	660.10	668.20
36.5	648.30	632.00	633.70	653.60	660.60
37.0	640.60	625.00	626.30	646.20	652.70
37.5	633.20	617.80	619.00	638.80	645.10
38.0	625.80	610.60	612.50	631.10	637.30
38.5	618.40	603.30	605.50	623.40	629.30
39.0	610.60	596.50	598.10	615.80	621.20
39.5	603.40	589.70	590.90	607.90	613.20
40.0	595.60	583.10	583.30	599.70	604.90
40.5	588.10	575.80	576.00	591.60	596.70
41.0	580.80	568.40	568.40	583.50	588.40
41.5	575.10	561.10	560.90	575.50	579.80
42.0	567.90	553.70	553.20	567.30	571.20
42.5	560.50	546.30	545.60	558.80	562.70
43.0	553.00	538.90	537.80	550.40	553.80
43.5	545.30	531.40	529.90	542.00	545.20
44.0	537.50	523.90	522.20	533.30	536.20
44.5	529.80	516.30	514.40	524.70	527.30
45.0	521.90	508.70	506.40	516.10	518.30
45.5	514.20	501.40	498.80	507.50	509.40
46.0	506.40	493.90	491.10	498.90	500.30
46.5	498.60	486.50	483.40	490.10	491.10
47.0	490.80	479.10	475.70	481.20	482.00
47.5	483.10	471.70	467.70	472.40	472.60
48.0	475.30	464.20	459.80	463.60	463.20
48.5	467.40	456.70	452.00	454.80	454.00
49.0	459.50	449.30	444.10	445.90	444.90
49.5	451.70	441.60	436.10	437.00	435.60
50.0	444.00	434.10	428.10	428.00	426.30
50.5	436.10	426.60	420.30	419.10	417.00
51.0	428.50	419.10	412.40	410.40	408.00
51.5	420.60	411.60	404.30	401.60	398.80
52.0	413.00	404.20	396.40	392.80	389.60
52.5	405.30	396.70	388.40	384.00	380.40
53.0	397.70	389.30	380.40	375.10	371.30
53.5	390.00	381.70	372.40	366.40	362.20
54.0	382.40	374.10	364.50	357.70	353.20
54.5	374.80	366.60	356.70	348.80	344.30

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

55.0	367.20	359.10	348.90	340.00	335.20
55.5	359.60	351.50	341.10	331.20	325.90
56.0	351.90	344.10	333.30	322.40	316.90
56.5	344.30	336.60	325.50	313.70	308.10
57.0	336.90	329.20	317.60	305.10	299.20
57.5	329.40	321.80	309.70	296.40	290.30
58.0	321.90	314.40	301.80	287.80	281.60
58.5	314.40	307.00	293.80	279.30	273.10
59.0	307.00	299.50	286.00	270.70	264.60
59.5	299.80	292.10	278.20	262.20	256.20
60.0	292.50	284.80	270.40	254.00	247.80
60.5	285.20	277.70	262.70	245.80	239.90
61.0	278.00	270.40	255.10	237.80	231.80
61.5	270.80	263.20	247.40	229.90	223.70
62.0	263.70	256.10	239.80	222.10	215.70
62.5	256.40	248.90	232.30	214.40	207.80
63.0	249.30	241.70	224.80	206.80	200.30
63.5	242.40	234.60	217.40	199.30	192.70
64.0	235.20	227.50	210.10	191.90	185.10
64.5	228.20	220.50	202.80	184.50	177.60
65.0	221.20	213.40	195.50	177.30	170.40
65.5	214.20	206.50	188.30	170.00	163.20
66.0	207.40	199.50	181.20	162.90	156.00
66.5	200.70	192.80	174.10	155.90	148.90
67.0	193.90	186.20	167.20	149.00	141.90
67.5	187.10	179.60	160.40	142.20	135.10
68.0	180.50	173.00	153.60	135.60	128.30
68.5	173.90	166.50	146.90	129.00	121.60
69.0	167.50	160.00	140.40	122.50	115.20
69.5	161.40	153.70	134.00	116.20	109.20
70.0	155.20	147.50	127.60	110.10	103.50
70.5	149.10	141.40	121.40	104.10	97.87
71.0	143.20	135.30	115.40	98.29	92.48
71.5	137.30	129.40	109.50	92.84	87.73
72.0	131.60	123.60	103.80	87.62	83.27
72.5	126.00	117.90	98.12	82.64	79.02
73.0	120.40	112.20	92.58	77.91	74.92
73.5	114.90	106.80	87.16	73.46	71.07
74.0	109.70	101.30	81.91	69.29	67.48
74.5	104.50	96.13	76.84	65.43	63.95
75.0	99.53	91.04	71.92	61.72	60.66
75.5	94.56	86.02	67.18	58.13	57.51
76.0	89.70	81.11	62.66	54.74	54.46
76.5	84.85	76.16	58.28	51.50	51.61
77.0	80.16	71.42	54.04	48.40	48.84
77.5	75.37	66.82	50.14	45.39	46.13
78.0	70.83	62.32	46.38	42.55	43.56
78.5	66.42	57.94	42.96	39.79	41.04
79.0	62.11	53.74	39.81	37.10	38.54
79.5	57.89	49.59	36.75	34.56	36.05
80.0	53.76	45.74	33.83	32.02	33.59
80.5	49.58	41.84	31.14	29.57	31.04
81.0	45.67	38.18	28.52	27.12	28.36
81.5	41.96	34.68	25.95	24.67	25.57
82.0	38.32	31.32	23.52	22.22	22.49
82.5	34.68	28.11	21.18	19.80	19.44

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

83.0	31.31	25.09	19.00	17.26	16.64
83.5	28.10	22.14	16.95	14.77	14.04
84.0	25.05	19.39	14.93	12.52	11.88
84.5	22.08	16.95	12.85	10.59	10.04
85.0	19.17	14.72	10.78	8.93	8.35
85.5	16.36	12.59	8.84	7.44	6.82
86.0	13.81	10.69	7.24	6.13	5.47
86.5	11.43	8.88	5.89	4.96	4.33
87.0	9.20	7.25	4.76	3.98	3.38
87.5	7.08	5.77	3.84	3.15	2.63
88.0	5.31	4.59	3.05	2.45	2.05
88.5	4.12	3.65	2.38	1.82	1.49
89.0	3.28	2.89	1.55	1.14	0.95
89.5	1.73	1.80	0.86	0.62	0.57
90.0	0.00	0.00	0.00	0.00	0.00
90.5	0.00	0.00	0.00	0.00	0.00
91.0	0.00	0.00	0.00	0.00	0.00
91.5	0.00	0.00	0.00	0.00	0.00
92.0	0.00	0.00	0.00	0.00	0.00
92.5	0.00	0.00	0.00	0.00	0.00
93.0	0.00	0.00	0.00	0.00	0.00
93.5	0.00	0.00	0.00	0.00	0.00
94.0	0.00	0.00	0.00	0.00	0.00
94.5	0.00	0.00	0.00	0.00	0.00
95.0	0.00	0.00	0.00	0.00	0.00
95.5	0.00	0.00	0.00	0.00	0.00
96.0	0.00	0.00	0.00	0.00	0.00
96.5	0.00	0.00	0.00	0.00	0.00
97.0	0.00	0.00	0.00	0.00	0.00
97.5	0.00	0.00	0.00	0.00	0.00
98.0	0.00	0.00	0.00	0.00	0.00
98.5	0.00	0.00	0.00	0.00	0.00
99.0	0.00	0.00	0.00	0.00	0.00
99.5	0.00	0.00	0.00	0.00	0.00
100.0	0.00	0.00	0.00	0.00	0.00
100.5	0.00	0.00	0.00	0.00	0.00
101.0	0.00	0.00	0.00	0.00	0.00
101.5	0.00	0.00	0.00	0.00	0.00
102.0	0.00	0.00	0.00	0.00	0.00
102.5	0.00	0.00	0.00	0.00	0.00
103.0	0.00	0.00	0.00	0.00	0.00
103.5	0.00	0.00	0.00	0.00	0.00
104.0	0.00	0.00	0.00	0.00	0.00
104.5	0.00	0.00	0.00	0.00	0.00
105.0	0.00	0.00	0.00	0.00	0.00
105.5	0.00	0.00	0.00	0.00	0.00
106.0	0.00	0.00	0.00	0.00	0.00
106.5	0.00	0.00	0.00	0.00	0.00
107.0	0.00	0.00	0.00	0.00	0.00
107.5	0.00	0.00	0.00	0.00	0.00
108.0	0.00	0.00	0.00	0.00	0.00
108.5	0.00	0.00	0.00	0.00	0.00
109.0	0.00	0.00	0.00	0.00	0.00
109.5	0.00	0.00	0.00	0.00	0.00
110.0	0.00	0.00	0.00	0.00	0.00
110.5	0.00	0.00	0.00	0.00	0.00

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111.0	0.00	0.00	0.00	0.00	0.00
111.5	0.00	0.00	0.00	0.00	0.00
112.0	0.00	0.00	0.00	0.00	0.00
112.5	0.00	0.00	0.00	0.00	0.00
113.0	0.00	0.00	0.00	0.00	0.00
113.5	0.00	0.00	0.00	0.00	0.00
114.0	0.00	0.00	0.00	0.00	0.00
114.5	0.00	0.00	0.00	0.00	0.00
115.0	0.00	0.00	0.00	0.00	0.00
115.5	0.00	0.00	0.00	0.00	0.00
116.0	0.00	0.00	0.00	0.00	0.00
116.5	0.00	0.00	0.00	0.00	0.00
117.0	0.00	0.00	0.00	0.00	0.00
117.5	0.00	0.00	0.00	0.00	0.00
118.0	0.00	0.00	0.00	0.00	0.00
118.5	0.00	0.00	0.00	0.00	0.00
119.0	0.00	0.00	0.00	0.00	0.00
119.5	0.00	0.00	0.00	0.00	0.00
120.0	0.00	0.00	0.00	0.00	0.00
120.5	0.00	0.00	0.00	0.00	0.00
121.0	0.00	0.00	0.00	0.00	0.00
121.5	0.00	0.00	0.00	0.00	0.00
122.0	0.00	0.00	0.00	0.00	0.00
122.5	0.00	0.00	0.00	0.00	0.00
123.0	0.00	0.00	0.00	0.00	0.00
123.5	0.00	0.00	0.00	0.00	0.00
124.0	0.00	0.00	0.00	0.00	0.00
124.5	0.00	0.00	0.00	0.00	0.00
125.0	0.00	0.00	0.00	0.00	0.00
125.5	0.00	0.00	0.00	0.00	0.00
126.0	0.00	0.00	0.00	0.00	0.00
126.5	0.00	0.00	0.00	0.00	0.00
127.0	0.00	0.00	0.00	0.00	0.00
127.5	0.00	0.00	0.00	0.00	0.00
128.0	0.00	0.00	0.00	0.00	0.00
128.5	0.00	0.00	0.00	0.00	0.00
129.0	0.00	0.00	0.00	0.00	0.00
129.5	0.00	0.00	0.00	0.00	0.00
130.0	0.00	0.00	0.00	0.00	0.00
130.5	0.00	0.00	0.00	0.00	0.00
131.0	0.00	0.00	0.00	0.00	0.00
131.5	0.00	0.00	0.00	0.00	0.00
132.0	0.00	0.00	0.00	0.00	0.00
132.5	0.00	0.00	0.00	0.00	0.00
133.0	0.00	0.00	0.00	0.00	0.00
133.5	0.00	0.00	0.00	0.00	0.00
134.0	0.00	0.00	0.00	0.00	0.00
134.5	0.00	0.00	0.00	0.00	0.00
135.0	0.00	0.00	0.00	0.00	0.00
135.5	0.00	0.00	0.00	0.00	0.00
136.0	0.00	0.00	0.00	0.00	0.00
136.5	0.00	0.00	0.00	0.00	0.00
137.0	0.00	0.00	0.00	0.00	0.00
137.5	0.00	0.00	0.00	0.00	0.00
138.0	0.00	0.00	0.00	0.00	0.00
138.5	0.00	0.00	0.00	0.00	0.00

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

139.0	0.00	0.00	0.00	0.00	0.00
139.5	0.00	0.00	0.00	0.00	0.00
140.0	0.00	0.00	0.00	0.00	0.00
140.5	0.00	0.00	0.00	0.00	0.00
141.0	0.00	0.00	0.00	0.00	0.00
141.5	0.00	0.00	0.00	0.00	0.00
142.0	0.00	0.00	0.00	0.00	0.00
142.5	0.00	0.00	0.00	0.00	0.00
143.0	0.00	0.00	0.00	0.00	0.00
143.5	0.00	0.00	0.00	0.00	0.00
144.0	0.00	0.00	0.00	0.00	0.00
144.5	0.00	0.00	0.00	0.00	0.00
145.0	0.00	0.00	0.00	0.00	0.00
145.5	0.00	0.00	0.00	0.00	0.00
146.0	0.00	0.00	0.00	0.00	0.00
146.5	0.00	0.00	0.00	0.00	0.00
147.0	0.00	0.00	0.00	0.00	0.00
147.5	0.00	0.00	0.00	0.00	0.00
148.0	0.00	0.00	0.00	0.00	0.00
148.5	0.00	0.00	0.00	0.00	0.00
149.0	0.00	0.00	0.00	0.00	0.00
149.5	0.00	0.00	0.00	0.00	0.00
150.0	0.00	0.00	0.00	0.00	0.00
150.5	0.00	0.00	0.00	0.00	0.00
151.0	0.00	0.00	0.00	0.00	0.00
151.5	0.00	0.00	0.00	0.00	0.00
152.0	0.00	0.00	0.00	0.00	0.00
152.5	0.00	0.00	0.00	0.00	0.00
153.0	0.00	0.00	0.00	0.00	0.00
153.5	0.00	0.00	0.00	0.00	0.00
154.0	0.00	0.00	0.00	0.00	0.00
154.5	0.00	0.00	0.00	0.00	0.00
155.0	0.00	0.00	0.00	0.00	0.00
155.5	0.00	0.00	0.00	0.00	0.00
156.0	0.00	0.00	0.00	0.00	0.00
156.5	0.00	0.00	0.00	0.00	0.00
157.0	0.00	0.00	0.00	0.00	0.00
157.5	0.00	0.00	0.00	0.00	0.00
158.0	0.00	0.00	0.00	0.00	0.00
158.5	0.00	0.00	0.00	0.00	0.00
159.0	0.00	0.00	0.00	0.00	0.00
159.5	0.00	0.00	0.00	0.00	0.00
160.0	0.00	0.00	0.00	0.00	0.00
160.5	0.00	0.00	0.00	0.00	0.00
161.0	0.00	0.00	0.00	0.00	0.00
161.5	0.00	0.00	0.00	0.00	0.00
162.0	0.00	0.00	0.00	0.00	0.00
162.5	0.00	0.00	0.00	0.00	0.00
163.0	0.00	0.00	0.00	0.00	0.00
163.5	0.00	0.00	0.00	0.00	0.00
164.0	0.00	0.00	0.00	0.00	0.00
164.5	0.00	0.00	0.00	0.00	0.00
165.0	0.00	0.00	0.00	0.00	0.00
165.5	0.00	0.00	0.00	0.00	0.00
166.0	0.00	0.00	0.00	0.00	0.00
166.5	0.00	0.00	0.00	0.00	0.00

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

167.0	0.00	0.00	0.00	0.00	0.00
167.5	0.00	0.00	0.00	0.00	0.00
168.0	0.00	0.00	0.00	0.00	0.00
168.5	0.00	0.00	0.00	0.00	0.00
169.0	0.00	0.00	0.00	0.00	0.00
169.5	0.00	0.00	0.00	0.00	0.00
170.0	0.00	0.00	0.00	0.00	0.00
170.5	0.00	0.00	0.00	0.00	0.00
171.0	0.00	0.00	0.00	0.00	0.00
171.5	0.00	0.00	0.00	0.00	0.00
172.0	0.00	0.00	0.00	0.00	0.00
172.5	0.00	0.00	0.00	0.00	0.00
173.0	0.00	0.00	0.00	0.00	0.00
173.5	0.00	0.00	0.00	0.00	0.00
174.0	0.00	0.00	0.00	0.00	0.00
174.5	0.00	0.00	0.00	0.00	0.00
175.0	0.00	0.00	0.00	0.00	0.00
175.5	0.00	0.00	0.00	0.00	0.00
176.0	0.00	0.00	0.00	0.00	0.00
176.5	0.00	0.00	0.00	0.00	0.00
177.0	0.00	0.00	0.00	0.00	0.00
177.5	0.00	0.00	0.00	0.00	0.00
178.0	0.00	0.00	0.00	0.00	0.00
178.5	0.00	0.00	0.00	0.00	0.00
179.0	0.00	0.00	0.00	0.00	0.00
179.5	0.00	0.00	0.00	0.00	0.00
180.0	0.00	0.00	0.00	0.00	0.00

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

Zone	Lumens	%Lamp	%Fixt
0-20	335.93	N.A.	15.90
0-30	699.80	N.A.	33.10
0-40	1114.78	N.A.	52.70
0-60	1822.46	N.A.	86.10
0-80	2099.63	N.A.	99.20
0-90	2115.7	N.A.	100.00
10-90	2027.81	N.A.	95.80
20-40	778.85	N.A.	36.80
20-50	1173.98	N.A.	55.50
40-70	901.98	N.A.	42.60
60-80	277.17	N.A.	13.10
70-80	82.87	N.A.	3.90
80-90	16.07	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	2115.7	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	87.89
10-20	248.04
20-30	363.87
30-40	414.98
40-50	395.12
50-60	312.56
60-70	194.30
70-80	82.87
80-90	16.07
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 READING 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	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	89	87
2	101	94	88	82	99	92	86	81	88	84	80	85	81	78	82	79	76	74
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	74	69	66	64
4	86	74	66	60	83	73	66	60	71	64	59	68	63	58	66	61	57	55
5	79	67	59	52	77	66	58	52	64	57	52	62	56	51	60	55	50	48
6	73	61	52	46	71	60	52	46	58	51	46	56	50	45	55	49	45	43
7	68	55	47	41	66	54	47	41	53	46	41	52	45	40	50	44	40	38
8	64	51	42	37	62	50	42	37	49	42	37	47	41	36	46	40	36	34
9	59	47	39	33	58	46	38	33	45	38	33	44	38	33	43	37	33	31
10	56	43	36	30	55	43	35	30	42	35	30	41	35	30	40	34	30	28

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MCTMBAERNX-24-L47-840-CS-SSCA-DIM-UNV READING 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

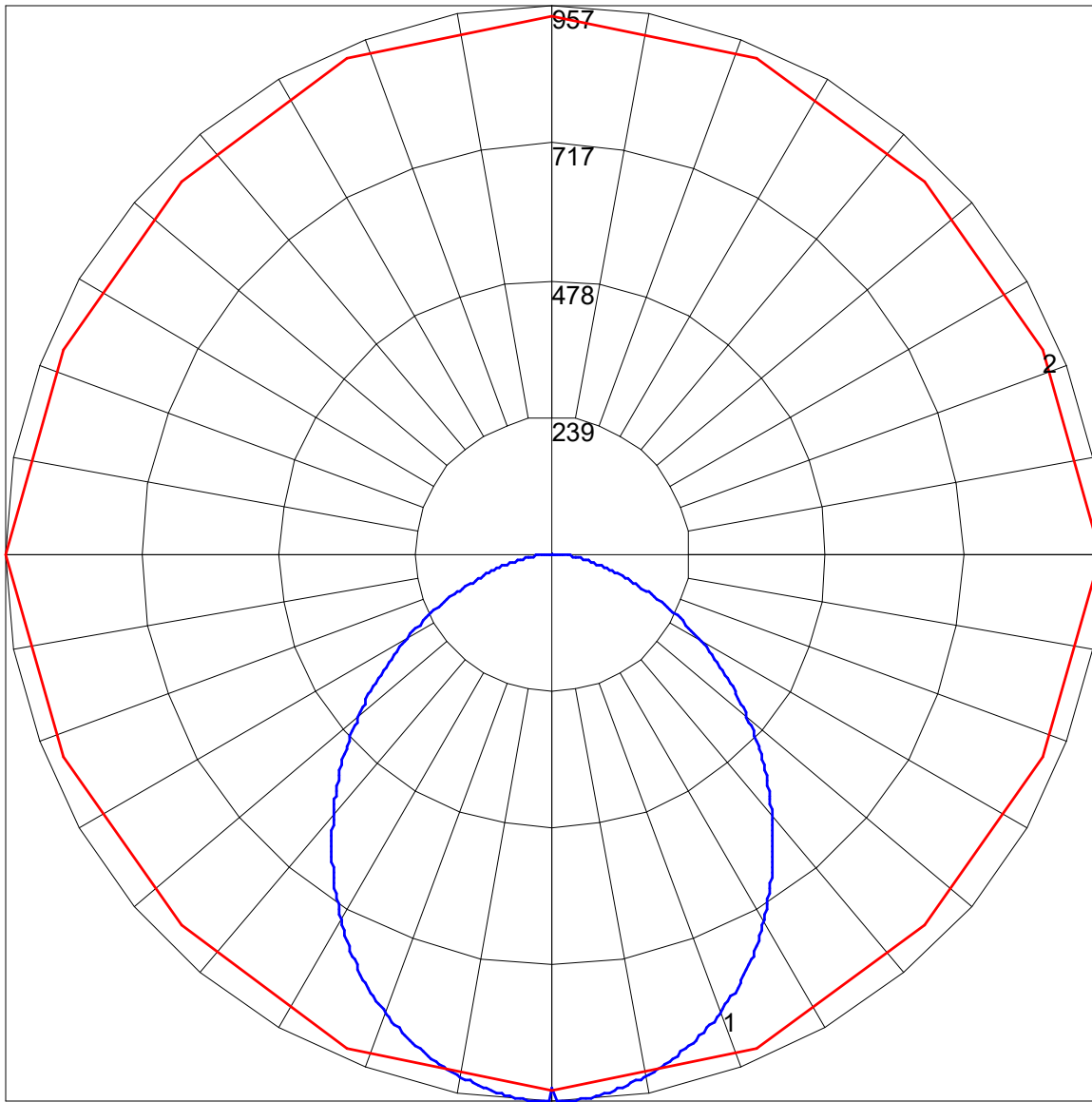
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	12.5	14.0	12.8	14.3	14.6	11.8	13.3	12.2	13.7	14.0
	3H	13.8	15.2	14.2	15.5	15.9	12.8	14.1	13.1	14.4	14.8
	4H	14.3	15.6	14.7	15.9	16.3	13.0	14.2	13.4	14.6	15.0
	6H	14.6	15.7	15.0	16.1	16.5	13.1	14.3	13.5	14.7	15.0
	8H	14.6	15.7	15.0	16.1	16.5	13.1	14.3	13.5	14.6	15.0
	12H	14.6	15.7	15.1	16.1	16.5	13.1	14.2	13.6	14.6	15.0
4H	2H	12.9	14.1	13.3	14.5	14.9	12.3	13.6	12.7	13.9	14.3
	3H	14.4	15.5	14.8	15.9	16.3	13.4	14.5	13.8	14.9	15.3
	4H	14.9	15.9	15.4	16.3	16.7	13.7	14.6	14.1	15.0	15.5
	6H	15.3	16.1	15.8	16.6	17.0	13.9	14.7	14.3	15.2	15.6
	8H	15.4	16.2	15.9	16.6	17.1	13.9	14.7	14.4	15.1	15.6
	12H	15.4	16.1	15.9	16.6	17.1	13.9	14.6	14.4	15.1	15.6
8H	4H	15.0	15.8	15.5	16.2	16.7	13.8	14.6	14.3	15.1	15.5
	6H	15.4	16.1	15.9	16.5	17.0	14.1	14.7	14.6	15.2	15.7
	8H	15.5	16.1	16.1	16.6	17.1	14.1	14.7	14.7	15.2	15.7
	12H	15.6	16.1	16.1	16.6	17.2	14.2	14.7	14.7	15.2	15.7
12H	4H	15.0	15.7	15.5	16.1	16.6	13.8	14.5	14.3	15.0	15.5
	6H	15.4	16.0	15.9	16.4	17.0	14.1	14.7	14.6	15.1	15.7
	8H	15.5	16.1	16.0	16.5	17.1	14.2	14.7	14.7	15.2	15.7

Maximum UGR = 17.2

IES INDOOR REPORT

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

POLAR GRAPH



Maximum Candela = 956.5 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.)