



IES INDOOR REPORT

PHOTOMETRIC FILENAME : MCTMBAERNX-22-L27-840-CS-SSCA-DIM-UNV AMBIENT ONLY.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from UL #15318387.02

[TESTLAB] UL Verification Services Inc.

[ISSUE DATE] 7/8/2024

[TEST DATE] 6/6/2024

[MANUFAC] H E WILLIAMS INC

[LUMCAT] MCTMBAERNx-22-L27-840-CS-SSCA-DIM-UNV AMBIENT ONLY

[LUMINAIRE] White 2x2 multi-function over-bed medical fixture

[LAMP] 66 LEDs

[BALLAST] 1x Driver Optotronic 30W Oti 30/120-277/1A0 Dim-1 L G2

[OTHER] 24.5 C, 120.014 V, 0.197062 A, 23.3312 W, 0.986512 PF, 59.9698

[MORE] 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	2667
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	111
Total Luminaire Watts	24.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.60
Spacing Criterion (Diagonal)	1.54
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.58 ft
Luminous Width (90-270)	1.58 ft
Luminous Height	0.00 ft

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MCTMBAERNX-22-L27-840-CS-SSCA-DIM-UNV AMBIENT ONLY.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3107	4011	5108
55	2898	4281	5440
65	2533	4197	4768
75	1846	2942	2065
85	693	696	626

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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	815.828	815.828	815.828	815.828	815.828
0.5	811.921	816.630	817.432	815.628	814.726
1.0	811.820	816.530	817.231	815.528	814.626
1.5	811.820	816.229	817.031	815.327	814.526
2.0	811.520	816.029	816.730	815.027	814.125
2.5	811.119	815.528	816.430	814.726	814.025
3.0	810.418	815.127	815.828	814.325	813.624
3.5	809.816	814.626	815.528	814.125	813.624
4.0	809.015	813.925	815.027	813.424	812.822
4.5	808.213	813.023	814.125	812.822	812.522
5.0	807.211	812.321	813.724	812.622	812.221
5.5	806.410	811.420	812.923	812.121	811.620
6.0	805.007	810.618	812.021	811.319	810.919
6.5	804.005	809.416	811.219	810.718	810.418
7.0	803.003	808.113	810.317	810.317	810.017
7.5	801.800	807.111	809.315	809.616	809.315
8.0	800.398	805.909	808.313	808.915	808.814
8.5	799.195	804.606	807.412	808.113	808.213
9.0	797.893	803.404	806.410	807.211	807.512
9.5	796.089	801.901	805.307	806.610	806.911
10.0	794.486	800.498	804.005	805.808	806.309
10.5	793.083	798.895	802.802	804.907	805.708
11.0	791.179	797.191	801.600	804.205	805.007
11.5	789.175	795.688	800.398	803.303	804.305
12.0	787.372	793.784	798.895	802.402	803.504
12.5	785.267	792.181	797.492	801.400	803.003
13.0	783.163	790.277	796.089	800.297	801.901
13.5	781.159	788.273	794.386	799.396	801.600
14.0	778.955	785.969	792.782	798.494	800.698
14.5	776.350	783.764	791.079	797.492	799.796
15.0	773.945	781.360	789.376	796.289	799.396
15.5	771.440	778.654	787.772	795.388	798.594
16.0	768.434	776.049	785.267	794.185	797.492
16.5	765.528	773.444	783.263	793.083	796.891
17.0	762.622	770.738	781.259	791.580	796.089
17.5	759.516	767.732	779.055	790.378	795.287
18.0	756.109	764.827	776.851	789.075	794.185
18.5	753.203	761.821	774.446	787.772	793.183
19.0	749.496	758.714	772.041	786.269	792.382
19.5	746.490	755.408	769.837	784.766	791.580
20.0	742.883	752.201	767.332	783.564	790.979
20.5	739.777	749.195	765.027	782.362	790.478
21.0	736.270	746.089	762.823	781.360	790.077
21.5	732.662	742.883	760.518	780.658	789.877
22.0	728.855	739.476	758.113	779.957	789.776
22.5	726.350	736.169	755.809	779.356	790.177
23.0	723.644	732.863	753.704	778.855	790.478
23.5	720.538	729.556	751.700	778.354	790.879
24.0	718.534	727.051	749.496	778.053	791.580
24.5	714.626	724.947	747.091	777.853	792.582
25.0	710.819	722.743	744.987	777.652	793.283
25.5	707.111	719.837	742.983	777.452	793.784
26.0	703.204	716.230	740.979	777.352	794.987
26.5	699.396	712.622	738.374	777.251	795.889

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MCTMBAERNX-22-L27-840-CS-SSCA-DIM-UNV AMBIENT ONLY.IES****CANDELA TABULATION - (Cont.)**

27.0	695.488	708.815	736.069	777.151	797.191
27.5	691.280	704.907	733.765	777.051	798.093
28.0	687.071	700.999	731.660	777.151	799.195
28.5	682.863	697.192	729.957	777.251	800.398
29.0	678.454	693.284	727.552	777.352	802.101
29.5	673.945	689.075	726.149	777.652	803.905
30.0	669.536	684.867	724.145	777.853	805.408
30.5	664.927	680.659	722.141	778.053	807.311
31.0	660.118	676.450	719.536	778.554	811.219
31.5	655.408	672.041	717.332	779.155	815.728
32.0	650.599	667.633	715.729	779.857	820.337
32.5	645.889	663.324	713.324	780.859	824.345
33.0	641.080	658.915	711.019	782.462	829.355
33.5	636.170	654.506	708.614	784.967	834.065
34.0	631.260	649.897	706.210	787.171	837.271
34.5	626.150	645.288	703.805	789.476	839.776
35.0	621.140	640.779	701.400	792.181	842.181
35.5	616.130	636.270	699.095	794.686	844.285
36.0	611.020	631.561	696.791	796.590	846.189
36.5	605.709	626.951	694.286	797.893	848.193
37.0	600.398	622.042	691.881	798.895	850.097
37.5	595.188	617.132	689.476	799.997	851.299
38.0	589.978	612.422	687.071	800.899	852.301
38.5	584.467	607.613	684.667	801.700	853.403
39.0	579.156	602.703	682.362	802.301	854.305
39.5	573.745	597.793	680.158	802.602	854.606
40.0	568.435	592.783	678.053	802.702	854.506
40.5	563.024	587.773	676.550	802.702	854.305
41.0	557.312	582.763	675.148	802.502	853.303
41.5	551.801	577.753	673.745	801.901	851.900
42.0	546.190	572.743	672.142	800.899	850.097
42.5	540.278	567.733	671.039	799.496	847.892
43.0	534.868	562.623	669.737	797.692	845.488
43.5	529.056	557.513	668.033	795.588	843.083
44.0	523.345	552.302	665.829	793.384	842.682
44.5	517.934	546.992	663.424	790.578	842.381
45.0	511.922	541.781	660.919	787.271	841.580
45.5	506.010	536.471	658.414	783.664	840.377
46.0	500.098	531.160	655.809	780.458	837.371
46.5	494.186	525.749	653.104	777.752	833.363
47.0	488.174	520.339	650.098	774.646	828.654
47.5	482.062	515.028	646.891	771.540	824.746
48.0	476.050	509.617	643.284	767.732	819.836
48.5	469.938	504.006	639.176	762.923	814.726
49.0	463.926	498.595	634.567	757.813	809.816
49.5	457.714	492.784	629.857	752.402	804.907
50.0	451.401	487.172	625.248	746.791	799.295
50.5	445.088	481.461	620.639	741.280	793.784
51.0	438.776	475.750	615.829	735.769	788.273
51.5	432.563	469.938	611.120	730.157	781.760
52.0	426.251	464.126	606.210	725.348	774.847
52.5	419.838	458.415	601.000	721.039	768.033
53.0	413.425	452.503	595.789	715.328	760.718
53.5	406.812	446.591	590.178	708.915	752.602
54.0	400.299	440.880	584.467	702.202	743.885
54.5	393.786	434.968	578.455	695.188	735.568

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MCTMBAERNX-22-L27-840-CS-SSCA-DIM-UNV AMBIENT ONLY.IES****CANDELA TABULATION - (Cont.)**

55.0	387.273	429.056	572.242	687.873	727.051
55.5	380.660	423.044	565.729	679.757	717.232
56.0	374.147	416.932	559.216	671.140	708.113
56.5	367.333	410.920	552.503	662.122	696.791
57.0	360.920	404.908	545.589	652.603	685.268
57.5	354.107	398.896	538.775	642.282	673.344
58.0	347.393	392.784	532.062	631.861	661.520
58.5	340.680	386.572	524.948	621.140	648.995
59.0	333.666	380.359	517.533	609.717	635.669
59.5	326.752	374.247	510.018	597.893	621.941
60.0	319.838	367.834	502.503	585.769	608.815
60.5	313.025	361.522	494.888	573.344	595.388
61.0	306.111	355.209	487.172	560.819	581.861
61.5	299.097	348.997	478.856	547.693	567.934
62.0	291.983	342.584	470.539	534.066	553.906
62.5	284.869	336.171	461.822	520.439	539.978
63.0	277.754	329.758	452.704	506.411	526.150
63.5	270.640	323.245	443.084	491.481	511.621
64.0	263.526	316.732	433.465	476.351	497.994
64.5	256.512	310.119	423.545	461.221	484.267
65.0	249.498	303.506	413.325	446.692	469.537
65.5	242.384	296.792	402.704	432.664	455.008
66.0	235.370	289.879	391.682	418.936	440.780
66.5	228.356	283.065	380.259	405.610	426.852
67.0	221.342	276.151	368.936	391.782	413.225
67.5	214.328	269.137	357.213	378.055	399.297
68.0	207.314	262.023	345.389	364.327	385.169
68.5	200.300	254.708	333.365	350.700	370.640
69.0	193.386	247.294	321.442	337.073	353.506
69.5	185.971	239.678	309.317	323.546	336.472
70.0	179.057	232.163	297.193	310.019	319.838
70.5	172.043	224.448	284.969	296.392	303.406
71.0	164.929	216.733	272.845	282.364	285.169
71.5	158.216	208.717	260.720	267.935	266.031
72.0	151.302	200.701	248.496	253.606	248.596
72.5	144.388	192.685	236.572	238.877	230.159
73.0	137.775	184.568	224.749	223.947	209.618
73.5	130.961	176.753	212.825	208.115	187.775
74.0	124.248	168.637	200.901	191.482	165.831
74.5	117.735	160.721	189.278	173.446	144.388
75.0	111.322	152.805	177.454	154.007	124.549
75.5	105.210	144.589	165.631	134.769	107.715
76.0	98.978	136.372	154.108	116.933	94.919
76.5	92.895	128.156	142.785	101.202	85.551
77.0	86.833	119.939	131.162	88.447	77.695
77.5	80.841	111.523	119.438	78.938	70.781
78.0	75.090	103.106	107.214	71.332	64.659
78.5	69.619	94.980	94.709	64.599	59.288
79.0	64.298	87.044	82.364	58.667	54.288
79.5	59.058	79.168	70.871	53.316	49.579
80.0	53.918	71.483	60.851	48.437	45.150
80.5	49.098	64.098	52.655	43.837	41.042
81.0	44.359	57.104	46.192	39.449	37.144
81.5	39.769	50.290	40.661	35.391	33.467
82.0	35.361	43.667	35.811	31.543	30.020
82.5	31.122	37.625	31.483	27.936	26.723

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MCTMBAERNX-22-L27-840-CS-SSCA-DIM-UNV AMBIENT ONLY.IES****CANDELA TABULATION - (Cont.)**

83.0	27.194	32.204	27.495	24.449	23.557
83.5	23.687	27.355	23.858	21.262	20.601
84.0	20.321	23.006	20.401	18.377	17.785
84.5	16.994	19.108	17.134	15.721	15.130
85.0	14.078	15.601	14.128	13.236	12.715
85.5	11.463	12.455	11.523	11.022	10.601
86.0	9.098	9.780	9.299	9.078	8.717
86.5	7.054	7.545	7.355	7.184	6.834
87.0	5.351	5.701	5.661	5.311	4.790
87.5	3.968	4.248	4.188	3.657	3.136
88.0	2.926	3.096	2.926	2.435	2.124
88.5	2.114	2.134	1.894	1.543	1.433
89.0	1.303	1.232	1.062	0.842	0.802
89.5	0.331	0.581	0.551	0.451	0.431
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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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 : MCTMBAERNX-22-L27-840-CS-SSCA-DIM-UNV AMBIENT 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 : MCTMBAERNX-22-L27-840-CS-SSCA-DIM-UNV AMBIENT 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 : MCTMBAERNX-22-L27-840-CS-SSCA-DIM-UNV AMBIENT ONLY.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	299.82	N.A.	11.20
0-30	646.00	N.A.	24.20
0-40	1094.92	N.A.	41.00
0-60	2107.41	N.A.	79.00
0-80	2646.84	N.A.	99.20
0-90	2667.49	N.A.	100.00
10-90	2590.28	N.A.	97.10
20-40	795.10	N.A.	29.80
20-50	1308.57	N.A.	49.10
40-70	1387.88	N.A.	52.00
60-80	539.43	N.A.	20.20
70-80	164.03	N.A.	6.10
80-90	20.65	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	2667.49	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	77.21
10-20	222.61
20-30	346.18
30-40	448.92
40-50	513.47
50-60	499.02
60-70	375.39
70-80	164.03
80-90	20.65
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-22-L27-840-CS-SSCA-DIM-UNV AMBIENT 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	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	69
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49
5	75	62	52	46	73	61	52	45	58	51	45	56	50	44	54	49	44	42
6	69	55	46	39	67	54	46	39	52	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	40	34	47	40	34	46	39	34	45	38	34	32
8	59	45	37	31	57	45	36	30	43	36	30	42	35	30	41	34	30	28
9	55	41	33	27	54	41	33	27	40	32	27	38	32	27	37	31	27	25
10	52	38	30	25	50	38	30	24	36	29	24	36	29	24	35	29	24	22

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MCTMBAERNX-22-L27-840-CS-SSCA-DIM-UNV AMBIENT 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	12.8	14.5	13.2	14.8	15.1	16.3	18.0	16.7	18.3	18.6
	3H	14.4	16.0	14.8	16.3	16.6	17.8	19.4	18.2	19.7	20.0
	4H	14.9	16.4	15.3	16.7	17.1	18.1	19.5	18.5	19.9	20.2
	6H	15.2	16.5	15.6	16.9	17.3	18.1	19.4	18.5	19.8	20.2
	8H	15.2	16.5	15.6	16.9	17.3	18.1	19.4	18.5	19.8	20.2
	12H	15.2	16.4	15.7	16.8	17.2	18.1	19.3	18.5	19.7	20.1

UGR Viewed Endwise

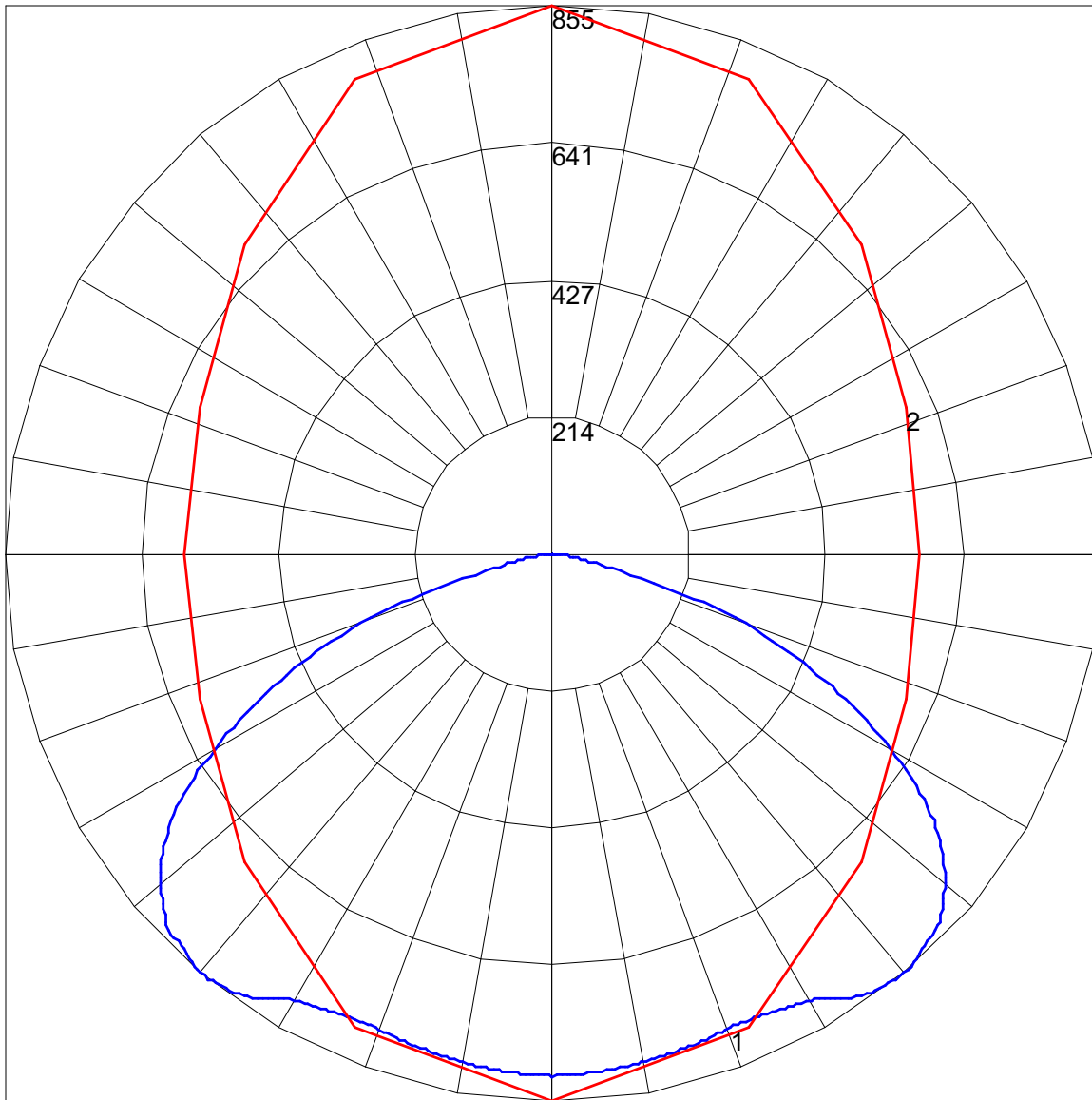
4H	2H	14.1	15.6	14.5	15.9	16.3	16.8	18.2	17.2	18.5	18.9
	3H	15.9	17.1	16.3	17.5	17.9	18.5	19.7	18.9	20.1	20.5
	4H	16.5	17.6	16.9	18.0	18.4	18.8	19.9	19.2	20.3	20.7
	6H	16.8	17.7	17.3	18.2	18.6	18.9	19.8	19.3	20.2	20.7
	8H	16.8	17.7	17.3	18.2	18.6	18.9	19.7	19.3	20.2	20.6
	12H	16.8	17.6	17.3	18.1	18.6	18.8	19.6	19.3	20.1	20.6
8H	4H	16.8	17.7	17.3	18.2	18.6	18.9	19.8	19.4	20.3	20.7
	6H	17.2	17.9	17.7	18.4	18.9	19.0	19.7	19.5	20.2	20.7
	8H	17.3	17.9	17.8	18.4	18.9	19.0	19.7	19.5	20.2	20.7
	12H	17.3	17.9	17.8	18.4	18.9	19.0	19.6	19.5	20.1	20.6
12H	4H	16.8	17.6	17.3	18.1	18.6	18.9	19.7	19.4	20.2	20.7
	6H	17.2	17.9	17.7	18.3	18.9	19.0	19.7	19.5	20.1	20.7
	8H	17.3	17.9	17.8	18.4	18.9	19.0	19.6	19.5	20.1	20.7

Maximum UGR = 20.7

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MCTMBAERNX-22-L27-840-CS-SSCA-DIM-UNV AMBIENT ONLY.IES

POLAR GRAPH



Maximum Candela = 854.606 Located At Horizontal Angle = 90, Vertical Angle = 39.5

1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)

2 - Horizontal Cone Through Vertical Angle (39.5) (Through Max. Cd.)