



IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX2UD-4-00-P8-8TWU-P8-8TWD-F-F-POE X_4000K.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GEN FROM 13012869.08
 [TESTLAB] UL Verification Services Inc.
 [ISSUEDATE] 12/05/2019
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
 [LUMCAT] MX2DU-4-00-P8-8TWU-P8-8TWD-F-F-POE x
 [LUMINAIRE] Formed White aluminum housing, lens enclosures
 [LAMP] 144 White Downlight LEDs/144 White Uplight LEDs
 [OTHER] This test was performed using the calibrated photodetector met
 [MORE] hod of absolute photometry.

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6572
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	130
Total Luminaire Watts	50.4
Ballast Factor	1.00
CIE Type	General Diffuse
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	3.96 ft
Luminous Width (90-270)	0.17 ft
Luminous Height	0.33 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	16142	6491	4901
55	13716	4513	3294
65	11350	2912	2072
75	8309	1557	1107
85	3915	481	364

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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	1403.188	1403.188	1403.188	1403.188	1403.188
0.5	1398.990	1411.584	1400.040	1401.089	1401.089
1.0	1398.990	1410.535	1400.040	1401.089	1401.089
1.5	1398.990	1410.535	1400.040	1401.089	1402.139
2.0	1397.941	1410.535	1398.990	1401.089	1402.139
2.5	1397.941	1409.485	1398.990	1402.139	1402.139
3.0	1396.891	1408.436	1397.941	1401.089	1401.089
3.5	1395.842	1407.386	1396.891	1401.089	1401.089
4.0	1393.743	1406.337	1395.842	1400.040	1400.040
4.5	1392.693	1405.287	1394.792	1398.990	1398.990
5.0	1391.644	1403.188	1392.693	1397.941	1396.891
5.5	1389.545	1402.139	1391.644	1395.842	1394.792
6.0	1387.446	1400.040	1389.545	1393.743	1392.693
6.5	1385.347	1397.941	1387.446	1390.594	1390.594
7.0	1383.248	1395.842	1385.347	1387.446	1387.446
7.5	1380.099	1393.743	1382.198	1384.297	1383.248
8.0	1378.000	1390.594	1380.099	1380.099	1379.050
8.5	1374.852	1387.446	1376.951	1375.901	1374.852
9.0	1371.703	1385.347	1373.802	1371.703	1370.654
9.5	1368.555	1382.198	1370.654	1367.505	1365.406
10.0	1365.406	1379.050	1366.456	1362.257	1359.109
10.5	1362.257	1375.901	1363.307	1358.059	1352.812
11.0	1359.109	1371.703	1358.059	1352.812	1347.564
11.5	1354.911	1367.505	1353.861	1346.515	1341.267
12.0	1350.713	1364.356	1348.614	1341.267	1333.921
12.5	1346.515	1360.158	1343.366	1334.970	1327.624
13.0	1342.317	1355.960	1338.119	1328.673	1320.277
13.5	1338.119	1350.713	1332.871	1322.376	1312.931
14.0	1332.871	1346.515	1326.574	1316.079	1306.634
14.5	1328.673	1341.267	1320.277	1308.733	1299.287
15.0	1323.426	1336.020	1313.980	1301.386	1290.891
15.5	1317.129	1330.772	1307.683	1294.040	1283.545
16.0	1311.881	1325.525	1301.386	1286.693	1275.149
16.5	1306.634	1319.228	1294.040	1278.297	1266.753
17.0	1301.386	1312.931	1286.693	1270.951	1259.406
17.5	1295.089	1307.683	1279.347	1262.555	1251.010
18.0	1288.792	1300.337	1272.000	1254.158	1242.614
18.5	1283.545	1294.040	1264.654	1246.812	1234.218
19.0	1277.248	1287.743	1256.257	1237.366	1224.772
19.5	1270.951	1280.396	1247.861	1228.970	1216.376
20.0	1263.604	1273.050	1239.465	1220.574	1206.931
20.5	1257.307	1266.753	1231.069	1211.129	1196.436
21.0	1251.010	1258.356	1222.673	1200.634	1188.040
21.5	1243.663	1251.010	1214.277	1191.188	1176.495
22.0	1236.317	1243.663	1205.881	1181.743	1167.050
22.5	1228.970	1235.267	1196.436	1171.248	1157.604
23.0	1221.624	1227.921	1188.040	1160.753	1146.059
23.5	1214.277	1219.525	1178.594	1150.257	1135.564
24.0	1205.881	1211.129	1169.149	1139.762	1124.020
24.5	1198.535	1202.733	1160.753	1129.267	1113.525
25.0	1189.089	1194.337	1150.257	1117.723	1101.980
25.5	1180.693	1185.941	1140.812	1107.228	1091.485
26.0	1172.297	1176.495	1131.366	1096.733	1080.990
26.5	1162.852	1167.050	1120.871	1086.238	1069.446

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX2UD-4-00-P8-8TWU-P8-8TWD-F-F-POE X_4000K.IES****CANDELA TABULATION - (Cont.)**

27.0	1154.455	1157.604	1111.426	1074.693	1057.901
27.5	1145.010	1148.158	1100.931	1064.198	1047.196
28.0	1134.515	1138.713	1091.485	1052.654	1036.071
28.5	1125.069	1129.267	1079.941	1042.054	1025.366
29.0	1114.574	1118.772	1069.446	1031.139	1014.766
29.5	1105.129	1109.327	1058.951	1020.224	1003.432
30.0	1094.634	1098.832	1047.826	1009.624	991.992
30.5	1085.188	1087.287	1036.806	998.499	981.497
31.0	1074.693	1077.842	1025.576	987.269	969.638
31.5	1063.149	1066.297	1014.032	975.935	958.303
32.0	1053.703	1054.753	1002.592	964.285	946.863
32.5	1042.263	1043.733	990.943	952.006	935.529
33.0	1032.083	1031.978	978.978	940.147	923.250
33.5	1021.063	1020.854	967.224	928.287	911.285
34.0	1009.939	1009.099	955.259	916.218	900.055
34.5	999.129	997.030	943.190	903.834	888.196
35.0	988.319	985.275	931.436	891.450	875.497
35.5	977.509	972.891	919.471	878.960	862.588
36.0	966.594	961.242	906.982	866.786	850.204
36.5	955.469	949.172	895.018	854.087	837.505
37.0	944.240	937.418	882.739	841.598	823.756
37.5	932.275	925.454	870.774	828.899	810.323
38.0	921.046	913.489	858.390	815.990	796.994
38.5	909.186	901.315	846.426	802.976	784.085
39.0	897.327	889.455	833.832	790.487	773.170
39.5	885.257	877.806	821.657	779.782	761.311
40.0	873.398	866.366	809.273	767.608	748.507
40.5	861.224	854.297	797.099	755.958	735.913
41.0	849.574	842.438	786.079	743.364	723.844
41.5	837.820	830.893	776.109	730.980	712.089
42.0	825.751	818.929	764.250	719.121	700.650
42.5	813.786	807.279	753.125	707.576	689.630
43.0	802.137	795.630	741.370	696.347	678.820
43.5	791.012	785.030	729.931	685.432	668.325
44.0	780.307	775.479	718.701	674.832	658.040
44.5	772.121	764.040	707.576	664.442	647.964
45.0	760.576	752.810	696.661	654.261	637.784
45.5	749.242	741.685	685.956	644.186	627.814
46.0	738.117	730.246	675.461	634.321	617.844
46.5	726.887	718.806	664.966	624.351	607.978
47.0	715.867	707.471	654.681	614.485	598.008
47.5	704.638	696.137	644.291	604.620	588.143
48.0	693.618	685.012	634.006	594.650	578.277
48.5	682.598	673.887	623.616	584.784	568.517
49.0	671.578	662.867	613.331	574.709	558.861
49.5	660.663	651.848	602.941	564.949	549.206
50.0	649.853	640.933	592.655	555.188	539.655
50.5	638.939	630.018	582.265	545.428	530.315
51.0	628.024	619.208	571.875	535.772	520.974
51.5	617.214	608.398	561.590	526.117	511.634
52.0	606.299	597.588	551.515	516.566	502.293
52.5	595.384	586.988	541.440	507.121	493.057
53.0	584.469	576.283	531.574	497.675	483.927
53.5	573.659	565.683	521.814	488.230	474.481
54.0	562.954	555.293	512.158	478.994	465.246
54.5	552.250	544.798	502.608	469.549	456.010

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55.0	541.650	534.513	493.057	460.208	446.774
55.5	531.050	524.333	483.612	451.077	437.644
56.0	520.554	514.152	474.166	441.842	428.408
56.5	510.164	504.182	464.721	432.921	419.487
57.0	499.879	494.107	455.275	423.895	410.671
57.5	489.699	484.032	445.830	415.079	402.065
58.0	479.729	473.956	436.489	406.263	393.459
58.5	469.758	463.986	427.149	397.657	385.168
59.0	460.208	454.226	418.018	389.052	376.772
59.5	450.762	444.570	408.782	380.551	368.586
60.0	441.317	434.915	399.756	372.154	360.505
60.5	431.976	425.364	390.836	363.863	352.424
61.0	422.531	415.814	382.020	355.677	344.448
61.5	413.085	406.473	373.204	347.596	336.576
62.0	403.535	397.133	364.493	339.515	328.915
62.5	394.089	387.897	355.887	331.539	321.253
63.0	384.749	378.766	347.491	323.772	313.697
63.5	375.513	369.636	338.990	316.006	306.141
64.0	366.277	360.400	330.594	308.240	298.689
64.5	357.042	351.269	322.303	300.578	291.238
65.0	348.016	342.244	314.012	293.022	283.996
65.5	338.885	333.218	305.826	285.465	276.754
66.0	329.859	324.297	297.745	278.014	269.513
66.5	320.729	315.376	289.558	270.457	262.271
67.0	311.598	306.665	281.477	262.796	254.925
67.5	302.572	297.850	273.501	255.345	247.683
68.0	293.651	289.034	265.525	247.893	240.547
68.5	284.731	280.323	257.444	240.547	233.410
69.0	275.915	271.507	249.572	233.200	226.273
69.5	267.099	262.901	241.596	225.853	219.347
70.0	258.178	254.295	233.830	218.612	212.315
70.5	249.362	245.794	226.063	211.475	205.493
71.0	240.651	237.188	218.297	204.444	198.776
71.5	231.941	228.687	210.741	197.412	192.269
72.0	223.440	220.186	203.499	190.590	185.867
72.5	214.939	211.895	196.152	183.978	179.465
73.0	206.543	203.709	188.806	177.366	173.168
73.5	198.147	195.628	181.564	170.859	166.976
74.0	189.960	187.547	174.428	164.457	160.784
74.5	181.774	179.675	167.501	158.160	154.697
75.0	173.693	171.909	160.574	151.968	148.610
75.5	165.822	164.143	153.752	145.881	142.733
76.0	157.951	156.586	147.036	139.899	136.960
76.5	150.289	149.135	140.424	133.917	131.293
77.0	142.733	141.788	133.917	128.040	125.521
77.5	135.176	134.547	127.515	122.372	119.958
78.0	127.830	127.410	121.323	116.600	114.291
78.5	120.588	120.483	115.131	111.038	108.834
79.0	113.556	113.661	109.253	105.475	103.586
79.5	106.630	106.945	103.376	100.123	98.339
80.0	99.808	100.438	97.709	94.770	93.196
80.5	93.091	94.141	92.042	89.523	88.158
81.0	86.689	87.949	86.479	84.485	83.226
81.5	80.497	81.966	81.022	79.448	78.398
82.0	74.305	76.089	75.669	74.410	73.570
82.5	68.323	70.212	70.527	69.582	68.952

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX2UD-4-00-P8-8TWU-P8-8TWD-F-F-POE X_4000K.IES****CANDELA TABULATION - (Cont.)**

83.0	62.550	64.650	65.279	64.859	64.230
83.5	56.883	59.192	60.242	60.137	59.717
84.0	51.426	54.050	55.414	55.519	55.309
84.5	46.178	49.012	50.586	51.006	50.796
85.0	41.141	44.079	45.863	46.598	46.388
85.5	36.313	39.356	41.350	42.295	42.190
86.0	31.590	34.634	36.943	37.992	37.992
86.5	27.077	30.226	32.640	33.899	33.899
87.0	22.669	25.818	28.442	29.911	29.911
87.5	18.366	21.620	24.244	25.923	25.923
88.0	14.168	17.527	20.255	22.040	22.145
88.5	9.970	13.539	16.267	18.471	18.576
89.0	5.772	9.131	12.069	14.273	13.749
89.5	2.834	5.457	7.661	9.026	8.501
90.0	2.519	3.988	4.933	5.248	4.303
90.5	2.834	5.877	7.976	8.501	8.396
91.0	5.772	7.242	9.236	11.020	11.125
91.5	10.075	9.655	10.600	11.859	11.964
92.0	15.008	13.014	12.594	13.539	13.539
92.5	20.046	16.687	14.693	15.428	15.428
93.0	25.083	20.780	17.107	17.422	17.317
93.5	30.226	24.873	20.150	19.521	19.416
94.0	35.368	28.966	23.614	21.725	21.515
94.5	40.511	33.269	27.392	24.139	23.719
95.0	45.653	37.782	31.485	26.972	26.028
95.5	50.691	42.505	35.683	30.121	28.756
96.0	55.834	47.438	39.776	33.584	31.800
96.5	60.871	52.475	43.764	37.362	35.053
97.0	66.014	57.618	47.543	41.350	38.832
97.5	71.156	62.655	51.321	45.444	42.715
98.0	76.299	67.798	55.204	49.432	46.703
98.5	81.442	72.836	58.982	53.315	50.691
99.0	86.584	77.978	62.760	57.093	54.574
99.5	91.727	83.121	66.749	60.871	58.457
100.0	96.869	88.263	70.737	64.545	62.131
100.5	102.117	93.511	74.830	68.323	65.909
101.0	107.259	98.758	79.028	72.101	69.687
101.5	112.612	104.006	83.226	75.984	73.465
102.0	117.964	109.358	87.739	79.762	77.349
102.5	123.527	114.816	92.251	83.646	81.232
103.0	129.089	120.378	96.764	87.634	85.010
103.5	134.861	126.046	101.487	91.727	88.998
104.0	140.739	131.818	106.420	95.820	93.091
104.5	146.511	137.695	111.352	100.123	97.289
105.0	152.388	143.677	116.495	104.426	101.592
105.5	158.370	149.764	121.743	108.834	105.895
106.0	164.562	155.956	127.200	113.347	110.408
106.5	170.964	162.358	132.867	118.069	114.921
107.0	177.576	168.970	138.745	122.792	119.644
107.5	184.293	175.687	144.832	127.725	124.366
108.0	191.325	182.614	151.024	132.867	129.299
108.5	198.566	189.751	157.531	138.220	134.337
109.0	206.018	197.097	164.143	143.677	139.584
109.5	213.574	204.549	171.069	149.345	145.042
110.0	221.551	212.315	178.206	155.222	150.604
110.5	229.632	220.396	185.657	161.414	156.376

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111.0	238.133	228.582	193.424	167.816	162.358
111.5	246.739	237.083	201.505	174.638	168.655
112.0	255.869	246.004	209.901	181.669	175.372
112.5	265.210	255.135	218.612	189.121	182.194
113.0	274.865	264.685	227.743	196.782	189.436
113.5	284.836	274.446	237.188	204.758	196.782
114.0	295.226	284.521	246.949	213.154	204.758
114.5	305.826	294.911	257.129	221.970	212.945
115.0	316.846	305.721	267.624	231.101	221.655
115.5	328.180	316.846	278.644	240.651	230.576
116.0	339.725	328.285	289.978	250.727	240.022
116.5	351.689	340.145	301.733	261.327	249.782
117.0	364.178	352.109	313.907	272.242	260.172
117.5	376.982	364.598	326.396	283.681	270.982
118.0	390.206	377.297	339.305	295.541	282.107
118.5	403.745	390.521	352.634	307.715	293.651
119.0	417.598	404.059	366.172	320.309	305.721
119.5	431.661	417.913	380.236	333.533	318.210
120.0	445.830	432.186	394.719	347.071	331.119
120.5	460.418	446.774	409.517	361.135	344.448
121.0	475.321	461.782	424.735	375.723	358.301
121.5	490.644	477.105	440.267	390.836	372.784
122.0	506.281	492.848	456.220	406.263	387.687
122.5	522.339	508.695	472.487	422.321	403.220
123.0	538.711	524.857	488.964	438.693	419.067
123.5	555.293	541.230	505.756	455.380	435.335
124.0	571.980	557.917	522.758	472.487	452.022
124.5	588.982	574.604	539.970	490.119	469.234
125.0	605.984	591.606	557.497	508.065	487.075
125.5	622.881	608.713	575.129	526.432	505.127
126.0	639.673	625.925	592.865	545.008	523.388
126.5	656.570	643.137	610.602	563.899	542.069
127.0	673.782	660.558	628.653	583.000	561.275
127.5	691.099	677.980	646.600	602.311	580.586
128.0	708.311	695.612	664.547	621.622	600.107
128.5	725.418	713.034	682.388	640.933	619.628
129.0	742.105	730.351	700.020	660.349	639.253
129.5	759.002	747.562	717.652	679.659	659.194
130.0	773.695	764.145	735.073	699.075	679.345
130.5	787.549	778.418	752.285	718.281	699.285
131.0	803.501	794.370	767.608	737.277	719.331
131.5	819.558	810.113	783.455	755.224	739.271
132.0	835.301	826.275	798.044	772.751	757.008
132.5	851.044	842.123	814.311	790.592	776.529
133.0	866.576	857.551	830.473	806.230	795.735
133.5	881.584	873.188	846.321	823.337	812.212
134.0	896.172	888.091	862.063	840.234	830.788
134.5	910.655	902.994	877.281	856.816	848.840
135.0	924.194	917.162	892.499	873.083	866.261
135.5	937.943	931.226	907.402	888.721	882.949
136.0	951.271	944.974	921.885	904.358	899.426
136.5	963.760	958.513	936.158	919.261	915.588
137.0	976.145	971.317	950.537	934.374	931.121
137.5	988.214	984.331	963.551	948.857	946.339
138.0	1000.283	996.715	977.089	962.921	960.822
138.5	1012.143	1009.099	989.788	976.459	974.570

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX2UD-4-00-P8-8TWU-P8-8TWD-F-F-POE X_4000K.IES****CANDELA TABULATION - (Cont.)**

139.0	1022.953	1021.063	1002.067	989.893	988.529
139.5	1033.867	1032.818	1014.347	1002.592	1001.543
140.0	1044.677	1043.628	1025.891	1015.606	1014.452
140.5	1054.753	1054.753	1037.331	1027.675	1026.626
141.0	1065.248	1065.248	1048.980	1039.640	1038.485
141.5	1074.693	1075.743	1060.000	1051.604	1050.555
142.0	1084.139	1086.238	1071.545	1062.099	1062.099
142.5	1093.584	1095.683	1080.990	1073.644	1072.594
143.0	1103.030	1105.129	1091.485	1084.139	1084.139
143.5	1111.426	1114.574	1101.980	1094.634	1094.634
144.0	1119.822	1122.970	1111.426	1105.129	1105.129
144.5	1128.218	1132.416	1119.822	1115.624	1115.624
145.0	1136.614	1140.812	1129.267	1125.069	1126.119
145.5	1145.010	1149.208	1137.663	1134.515	1136.614
146.0	1152.356	1157.604	1146.059	1143.960	1146.059
146.5	1160.753	1164.951	1154.455	1153.406	1156.555
147.0	1168.099	1172.297	1162.852	1161.802	1164.951
147.5	1174.396	1180.693	1170.198	1170.198	1174.396
148.0	1182.792	1188.040	1178.594	1178.594	1182.792
148.5	1190.139	1195.386	1185.941	1185.941	1191.188
149.0	1197.485	1202.733	1193.287	1193.287	1198.535
149.5	1203.782	1210.079	1200.634	1200.634	1205.881
150.0	1211.129	1216.376	1207.980	1206.931	1212.178
150.5	1217.426	1223.723	1215.327	1213.228	1218.475
151.0	1223.723	1230.020	1222.673	1220.574	1224.772
151.5	1231.069	1237.366	1228.970	1226.871	1230.020
152.0	1237.366	1243.663	1236.317	1233.168	1235.267
152.5	1243.663	1249.960	1243.663	1239.465	1241.564
153.0	1249.960	1256.257	1249.960	1245.762	1246.812
153.5	1256.257	1261.505	1256.257	1252.059	1252.059
154.0	1261.505	1267.802	1262.555	1258.356	1257.307
154.5	1267.802	1274.099	1268.852	1264.654	1263.604
155.0	1273.050	1279.347	1275.149	1270.951	1268.852
155.5	1278.297	1284.594	1281.446	1277.248	1275.149
156.0	1283.545	1289.842	1286.693	1283.545	1281.446
156.5	1288.792	1295.089	1292.990	1289.842	1287.743
157.0	1292.990	1300.337	1298.238	1296.139	1292.990
157.5	1298.238	1305.584	1303.485	1302.436	1299.287
158.0	1303.485	1310.832	1308.733	1307.683	1305.584
158.5	1308.733	1315.030	1313.980	1313.980	1310.832
159.0	1312.931	1320.277	1318.178	1319.228	1316.079
159.5	1317.129	1324.475	1323.426	1325.525	1322.376
160.0	1321.327	1328.673	1328.673	1330.772	1327.624
160.5	1325.525	1332.871	1332.871	1334.970	1332.871
161.0	1329.723	1337.069	1337.069	1340.218	1338.119
161.5	1333.921	1341.267	1341.267	1344.416	1342.317
162.0	1338.119	1345.465	1345.465	1348.614	1347.564
162.5	1342.317	1349.663	1349.663	1352.812	1351.762
163.0	1346.515	1352.812	1353.861	1357.010	1355.960
163.5	1350.713	1357.010	1357.010	1360.158	1359.109
164.0	1354.911	1361.208	1361.208	1363.307	1363.307
164.5	1358.059	1365.406	1364.356	1366.456	1366.456
165.0	1362.257	1368.555	1367.505	1369.604	1369.604
165.5	1365.406	1371.703	1369.604	1372.753	1372.753
166.0	1369.604	1375.901	1372.753	1374.852	1375.901
166.5	1372.753	1379.050	1374.852	1378.000	1378.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX2UD-4-00-P8-8TWU-P8-8TWD-F-F-POE X_4000K.IES****CANDELA TABULATION - (Cont.)**

167.0	1375.901	1382.198	1378.000	1381.149	1382.198
167.5	1379.050	1385.347	1380.099	1383.248	1384.297
168.0	1382.198	1387.446	1383.248	1386.396	1386.396
168.5	1385.347	1390.594	1385.347	1388.495	1389.545
169.0	1387.446	1392.693	1387.446	1391.644	1392.693
169.5	1390.594	1395.842	1389.545	1393.743	1394.792
170.0	1392.693	1397.941	1391.644	1395.842	1397.941
170.5	1395.842	1400.040	1393.743	1397.941	1400.040
171.0	1397.941	1402.139	1394.792	1400.040	1402.139
171.5	1398.990	1403.188	1396.891	1402.139	1405.287
172.0	1402.139	1405.287	1398.990	1404.238	1407.386
172.5	1403.188	1407.386	1400.040	1406.337	1409.485
173.0	1405.287	1408.436	1402.139	1407.386	1411.584
173.5	1407.386	1410.535	1403.188	1408.436	1413.683
174.0	1408.436	1411.584	1404.238	1410.535	1414.733
174.5	1410.535	1412.634	1406.337	1411.584	1415.782
175.0	1411.584	1413.683	1407.386	1412.634	1416.832
175.5	1412.634	1414.733	1407.386	1413.683	1417.881
176.0	1414.733	1415.782	1409.485	1414.733	1418.931
176.5	1415.782	1416.832	1409.485	1414.733	1418.931
177.0	1415.782	1416.832	1410.535	1415.782	1418.931
177.5	1416.832	1417.881	1411.584	1415.782	1418.931
178.0	1417.881	1418.931	1411.584	1415.782	1419.980
178.5	1418.931	1418.931	1412.634	1416.832	1418.931
179.0	1418.931	1418.931	1412.634	1416.832	1418.931
179.5	1418.931	1418.931	1413.683	1416.832	1418.931
180.0	1416.832	1416.832	1416.832	1416.832	1416.832

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX2UD-4-00-P8-8TWU-P8-8TWD-F-F-POE X_4000K.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	502.24	N.A.	7.60
0-30	1031.84	N.A.	15.70
0-40	1615.34	N.A.	24.60
0-60	2600.25	N.A.	39.60
0-80	3085.83	N.A.	47.00
0-90	3136.98	N.A.	47.70
10-90	3004.55	N.A.	45.70
20-40	1113.1	N.A.	16.90
20-50	1654.23	N.A.	25.20
40-70	1298.54	N.A.	19.80
60-80	485.57	N.A.	7.40
70-80	171.94	N.A.	2.60
80-90	51.15	N.A.	0.80
90-110	170.62	N.A.	2.60
90-120	441.85	N.A.	6.70
90-130	936.09	N.A.	14.20
90-150	2327.59	N.A.	35.40
90-180	3435.32	N.A.	52.30
110-180	3264.7	N.A.	49.70
0-180	6572.3	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	132.42
10-20	369.82
20-30	529.60
30-40	583.50
40-50	541.13
50-60	443.78
60-70	313.64
70-80	171.94
80-90	51.15
90-100	38.79
100-110	131.83
110-120	271.24
120-130	494.24
130-140	685.43
140-150	706.07
150-160	587.38
160-170	386.10
170-180	134.24

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX2UD-4-00-P8-8TWU-P8-8TWD-F-F-POE X_4000K.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	107	107	107	107	98	98	98	98	82	82	82	67	67	67	54	54	54	48
1	98	93	90	86	90	86	83	80	72	70	68	60	58	57	48	47	46	41
2	89	82	76	71	82	76	70	66	64	60	57	53	50	48	43	41	39	35
3	81	72	65	59	75	67	60	55	56	52	48	47	44	41	38	36	34	30
4	75	64	56	50	68	59	53	47	50	45	41	42	38	35	34	32	29	26
5	69	57	49	43	63	53	46	41	45	40	36	38	34	31	31	28	26	23
6	63	51	44	38	58	48	41	36	41	35	31	34	30	27	28	25	23	20
7	59	47	39	33	54	43	36	31	37	32	28	31	27	24	26	23	20	18
8	54	42	35	29	50	39	33	28	34	29	25	29	25	22	24	21	18	16
9	51	39	31	26	47	36	29	25	31	26	22	26	22	19	22	19	17	15
10	47	36	28	24	44	33	27	22	29	24	20	25	20	18	21	17	15	13

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX2UD-4-00-P8-8TWU-P8-8TWD-F-F-POE X_4000K.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	14.6	15.5	15.6	16.4	17.7	13.5	14.3	14.5	15.3	16.6
	3H	16.2	16.9	17.1	17.9	19.2	15.0	15.7	16.0	16.7	18.1
	4H	16.7	17.4	17.7	18.4	19.7	15.5	16.2	16.5	17.2	18.5
	6H	17.0	17.6	18.0	18.6	20.0	15.9	16.5	16.9	17.5	18.9
	8H	17.1	17.7	18.1	18.7	20.0	16.0	16.6	17.0	17.6	19.0
	12H	17.1	17.7	18.1	18.7	20.1	16.1	16.7	17.1	17.7	19.0

UGR Viewed Endwise

4H	2H	14.7	15.4	15.7	16.4	17.7	13.7	14.4	14.7	15.4	16.7
	3H	16.3	16.9	17.4	18.0	19.3	15.3	15.9	16.3	16.9	18.3
	4H	16.9	17.5	18.0	18.5	19.9	15.9	16.4	16.9	17.5	18.8
	6H	17.3	17.8	18.4	18.8	20.2	16.4	16.8	17.4	17.9	19.2
	8H	17.4	17.9	18.5	18.9	20.3	16.5	16.9	17.5	18.0	19.3
	12H	17.5	17.9	18.5	18.9	20.3	16.6	17.0	17.7	18.0	19.4

8H	4H	16.9	17.3	17.9	18.4	19.7	15.9	16.3	16.9	17.4	18.8
	6H	17.3	17.7	18.4	18.8	20.2	16.4	16.8	17.5	17.9	19.2
	8H	17.5	17.8	18.6	18.9	20.3	16.6	16.9	17.7	18.0	19.4
	12H	17.6	17.8	18.6	18.9	20.3	16.7	17.0	17.8	18.1	19.5

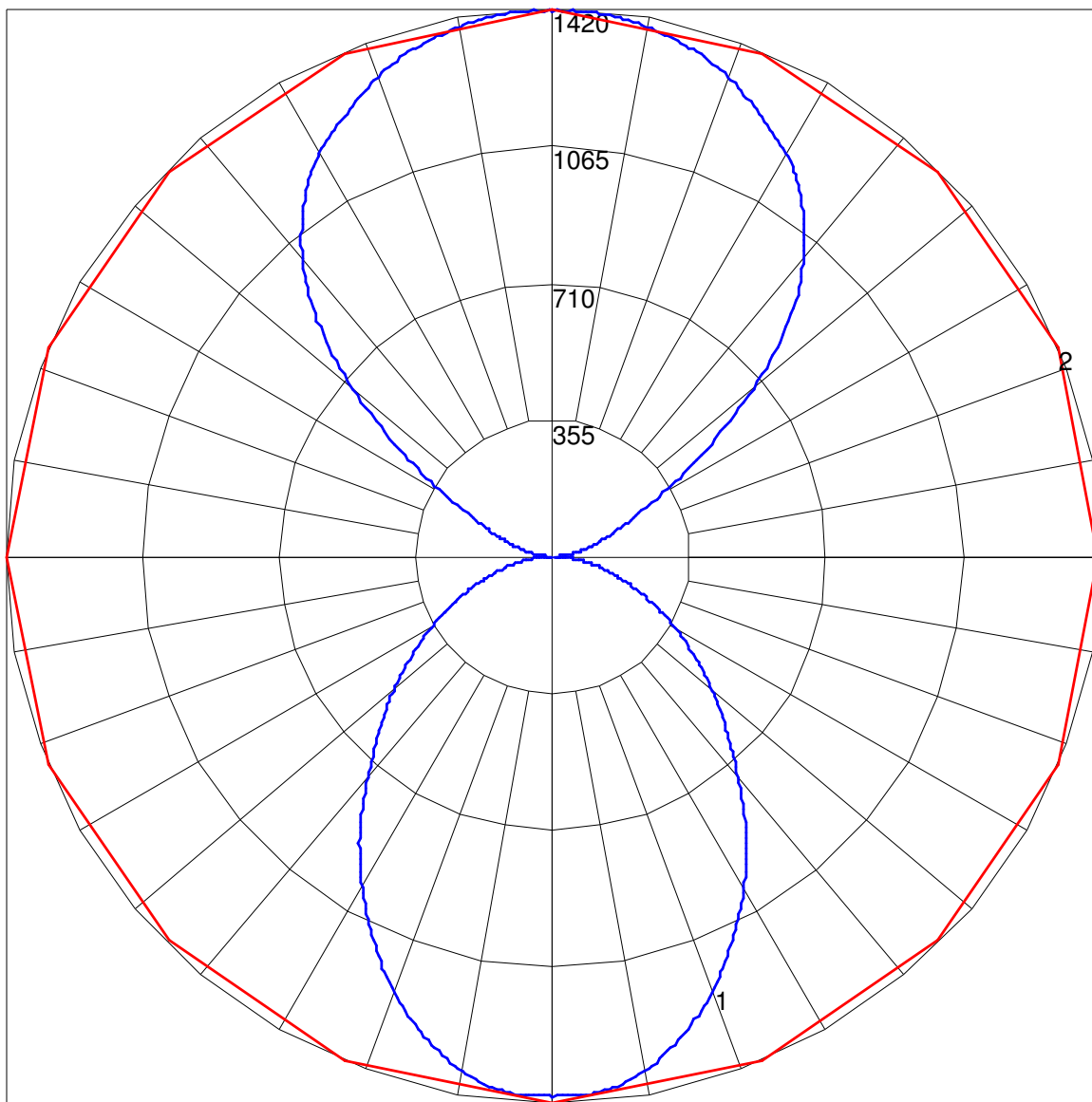
12H	4H	16.8	17.2	17.9	18.3	19.7	15.9	16.3	16.9	17.3	18.7
	6H	17.3	17.6	18.4	18.7	20.1	16.4	16.7	17.5	17.8	19.2
	8H	17.5	17.7	18.5	18.8	20.2	16.6	16.9	17.7	17.9	19.4

Maximum UGR = 20.3

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX2UD-4-00-P8-8TWU-P8-8TWD-F-F-POE X_4000K.IES

POLAR GRAPH



Maximum Candela = 1419.98 Located At Horizontal Angle = 90, Vertical Angle = 178

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

2 - Horizontal Cone Through Vertical Angle (178) (Through Max. Cd.)