



IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX2D-4-00-P8-8TW-F-POE X_4000K.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GEN FROM 13012869.01
 [TESTLAB] UL Verification Services Inc.
 [ISSUE DATE] 12/05/2019
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
 [LUMCAT] MX2D-4-00-L8-8TW-F-POE x
 [LUMINAIRE] Formed White aluminum housing, frosted plastic lens
 [LAMP] 144 White LEDs
 [BALLAST] One Philips Advance XI040C110V054BST1 Driver
 [OTHER] 24.6 C, 119.988 V, 0.225834 A, 26.9225 W, 0.993544 PF, 59.9999
 [MORE] Hz
 [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	3112
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	124
Total Luminaire Watts	25.2
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.18
Spacing Criterion (90-270)	1.10
Spacing Criterion (Diagonal)	1.22
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.96 ft
Luminous Width (90-270)	0.17 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	17393	15918	14590
55	15344	13949	12633
65	13490	12133	10986
75	11122	10188	9459
85	8023	8628	8823

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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	1376.128	1376.128	1376.128	1376.128	1376.128
0.5	1374.037	1384.493	1372.991	1372.991	1370.900
1.0	1372.991	1384.493	1372.991	1372.991	1370.900
1.5	1372.991	1383.448	1372.991	1372.991	1370.900
2.0	1372.991	1383.448	1371.945	1372.991	1370.900
2.5	1371.945	1382.402	1371.945	1372.991	1370.900
3.0	1370.900	1382.402	1370.900	1372.991	1369.854
3.5	1369.854	1381.356	1369.854	1371.945	1368.808
4.0	1368.808	1380.311	1368.808	1370.900	1367.762
4.5	1367.762	1379.265	1366.717	1369.854	1366.717
5.0	1365.671	1377.174	1365.671	1368.808	1364.625
5.5	1364.625	1376.128	1363.580	1366.717	1363.580
6.0	1362.534	1374.037	1362.534	1364.625	1361.488
6.5	1360.443	1371.945	1360.443	1361.488	1358.351
7.0	1358.351	1369.854	1358.351	1358.351	1355.214
7.5	1356.260	1367.762	1356.260	1355.214	1352.077
8.0	1354.168	1365.671	1353.123	1351.031	1348.940
8.5	1351.031	1362.534	1351.031	1347.894	1344.757
9.0	1347.894	1360.443	1347.894	1343.712	1340.575
9.5	1345.803	1357.306	1344.757	1339.529	1335.346
10.0	1342.666	1354.168	1340.575	1334.300	1330.118
10.5	1339.529	1351.031	1337.437	1330.118	1324.889
11.0	1336.392	1347.894	1332.209	1324.889	1318.615
11.5	1332.209	1343.712	1328.026	1319.661	1313.387
12.0	1329.072	1340.575	1323.843	1314.432	1307.112
12.5	1324.889	1336.392	1318.615	1308.158	1300.838
13.0	1320.706	1332.209	1313.387	1302.930	1294.564
13.5	1316.524	1328.026	1308.158	1296.656	1289.336
14.0	1312.341	1323.843	1302.930	1290.381	1282.016
14.5	1307.112	1318.615	1296.656	1284.107	1274.696
15.0	1301.884	1313.387	1290.381	1276.787	1268.422
15.5	1297.701	1309.204	1284.107	1269.468	1261.102
16.0	1292.473	1302.930	1277.833	1263.193	1253.782
16.5	1287.244	1297.701	1271.559	1255.874	1246.462
17.0	1282.016	1291.427	1264.239	1247.508	1238.097
17.5	1276.787	1286.199	1256.919	1240.188	1230.777
18.0	1270.513	1279.924	1249.599	1231.823	1222.412
18.5	1265.285	1273.650	1242.280	1224.503	1214.046
19.0	1259.011	1267.376	1234.960	1216.137	1205.681
19.5	1252.737	1260.056	1227.640	1207.772	1197.315
20.0	1246.462	1253.782	1219.274	1199.406	1188.949
20.5	1240.188	1246.462	1210.909	1189.995	1179.538
21.0	1232.868	1239.143	1203.589	1180.584	1170.127
21.5	1226.594	1231.823	1195.224	1171.173	1160.716
22.0	1219.274	1224.503	1186.858	1161.762	1150.259
22.5	1213.000	1217.183	1178.493	1152.350	1139.802
23.0	1205.681	1209.863	1169.081	1141.893	1130.391
23.5	1198.361	1201.498	1160.716	1132.482	1118.888
24.0	1189.995	1194.178	1152.350	1122.025	1108.431
24.5	1182.675	1185.812	1142.939	1111.568	1097.974
25.0	1174.310	1177.447	1133.528	1102.157	1087.518
25.5	1166.990	1168.036	1125.162	1091.700	1077.061
26.0	1157.579	1159.670	1114.705	1080.198	1066.604
26.5	1149.213	1150.259	1105.294	1069.741	1056.147

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX2D-4-00-P8-8TW-F-POE X_4000K.IES****CANDELA TABULATION - (Cont.)**

27.0	1139.802	1141.893	1095.883	1060.330	1045.585
27.5	1131.437	1132.482	1085.426	1049.873	1034.815
28.0	1122.025	1123.071	1076.015	1038.475	1024.462
28.5	1112.614	1113.660	1065.558	1028.122	1013.901
29.0	1103.203	1103.203	1055.101	1017.665	1003.549
29.5	1091.700	1093.792	1044.435	1006.895	992.360
30.0	1082.289	1083.335	1033.769	996.647	981.380
30.5	1072.878	1072.878	1022.685	985.458	970.400
31.0	1062.421	1062.421	1011.496	974.688	959.525
31.5	1051.964	1051.964	1000.307	963.290	947.813
32.0	1041.821	1041.193	989.118	951.787	936.520
32.5	1031.469	1029.691	977.720	940.075	925.436
33.0	1021.116	1018.607	966.322	928.364	913.515
33.5	1010.555	1007.209	954.819	916.443	902.221
34.0	999.889	995.706	942.899	904.522	889.882
34.5	989.118	984.099	931.501	892.392	877.961
35.0	978.661	972.701	919.684	880.053	865.727
35.5	967.681	961.303	907.763	868.132	852.969
36.0	956.493	949.382	896.156	855.584	840.107
36.5	946.140	937.775	884.131	843.035	826.618
37.0	934.742	926.168	871.792	830.487	813.233
37.5	923.449	914.560	859.662	817.834	799.953
38.0	912.469	902.744	847.323	805.181	786.673
38.5	901.071	891.242	835.193	792.110	775.588
39.0	889.464	879.634	823.272	780.085	764.713
39.5	877.857	868.132	811.246	769.942	752.060
40.0	866.040	856.734	799.116	758.439	739.721
40.5	854.433	845.231	787.405	746.100	727.800
41.0	843.035	833.938	778.202	734.179	716.298
41.5	831.324	822.540	767.118	722.676	705.109
42.0	819.821	810.933	756.766	711.383	694.338
42.5	808.109	799.535	745.368	700.612	683.881
43.0	796.816	787.927	734.388	690.051	673.738
43.5	785.941	778.934	723.513	679.698	663.699
44.0	776.425	768.582	712.847	669.555	653.870
44.5	767.327	757.602	702.285	659.517	643.936
45.0	755.929	746.832	691.828	649.687	634.106
45.5	744.845	735.538	681.476	639.858	624.381
46.0	733.761	724.349	671.228	630.133	614.552
46.5	722.781	713.265	661.085	620.303	604.932
47.0	711.697	702.390	650.942	610.578	595.207
47.5	700.717	691.515	640.694	600.644	585.482
48.0	689.946	680.640	630.446	590.815	575.861
48.5	679.280	669.869	620.094	581.090	566.241
49.0	668.614	659.098	609.742	571.365	556.725
49.5	657.948	648.537	599.285	561.745	547.314
50.0	647.282	637.871	589.037	552.124	537.903
50.5	636.616	627.205	578.789	542.609	528.596
51.0	625.950	616.643	568.646	533.197	519.290
51.5	615.075	606.082	558.608	523.682	509.983
52.0	604.409	595.311	548.674	514.270	500.676
52.5	593.638	584.854	539.053	504.859	491.474
53.0	583.077	574.397	529.433	495.552	482.168
53.5	572.515	564.045	520.022	486.246	472.861
54.0	561.954	553.797	510.506	476.939	463.659
54.5	551.392	543.654	501.095	467.633	454.457

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX2D-4-00-P8-8TW-F-POE X_4000K.IES****CANDELA TABULATION - (Cont.)**

55.0	540.935	533.511	491.788	458.430	445.359
55.5	530.688	523.472	482.481	449.333	436.366
56.0	520.544	513.329	473.175	440.445	427.478
56.5	510.506	503.291	463.868	431.556	418.903
57.0	500.676	493.357	454.457	422.772	410.433
57.5	490.847	483.632	445.150	414.093	402.068
58.0	481.227	474.011	435.844	405.414	393.807
58.5	471.606	464.391	426.641	396.839	385.546
59.0	461.986	454.875	417.649	388.369	377.389
59.5	452.470	445.359	408.551	380.108	369.338
60.0	443.163	435.844	399.558	371.952	361.390
60.5	433.752	426.432	390.774	363.796	353.339
61.0	424.446	417.126	382.095	355.744	345.496
61.5	415.034	408.028	373.416	347.692	337.758
62.0	405.728	398.931	364.841	339.849	330.229
62.5	396.421	389.938	356.371	332.111	322.595
63.0	387.219	380.840	348.006	324.373	315.066
63.5	378.017	371.743	339.745	316.635	307.642
64.0	368.815	362.645	331.484	309.106	300.218
64.5	359.613	353.548	323.327	301.472	292.793
65.0	350.411	344.555	315.171	293.943	285.369
65.5	341.313	335.666	307.119	286.310	278.049
66.0	332.216	326.778	299.067	278.781	271.147
66.5	323.118	317.994	291.016	271.252	263.828
67.0	314.230	309.001	282.964	263.723	256.612
67.5	305.237	300.113	274.912	256.299	249.292
68.0	296.244	291.225	266.965	248.874	242.182
68.5	287.356	282.441	258.913	241.554	235.071
69.0	278.467	273.762	250.966	234.339	228.065
69.5	269.474	265.082	243.018	227.124	221.059
70.0	260.795	256.403	235.280	220.013	214.262
70.5	252.116	247.829	227.542	213.007	207.465
71.0	243.437	239.149	219.909	206.001	200.772
71.5	234.967	230.784	212.275	199.204	194.185
72.0	226.496	222.418	204.746	192.407	187.701
72.5	218.131	214.262	197.426	185.715	181.323
73.0	209.765	206.105	190.211	179.127	174.944
73.5	201.400	198.054	182.996	172.539	168.670
74.0	193.139	190.002	175.885	166.056	162.500
74.5	184.983	182.055	168.983	159.781	156.435
75.0	176.931	174.317	162.082	153.507	150.475
75.5	168.983	166.578	155.285	147.338	144.619
76.0	161.036	159.154	148.488	141.168	138.763
76.5	153.298	151.625	141.900	135.103	133.012
77.0	145.560	144.305	135.312	129.247	127.365
77.5	138.031	136.985	129.038	123.391	121.718
78.0	130.607	129.875	122.764	117.745	116.176
78.5	123.287	122.869	116.594	112.098	110.739
79.0	116.176	115.967	110.634	106.660	105.406
79.5	109.065	109.379	104.674	101.223	100.177
80.0	102.268	102.896	98.713	95.785	94.949
80.5	95.576	96.517	93.066	90.557	89.825
81.0	89.093	90.243	87.524	85.328	84.805
81.5	82.714	84.178	81.878	80.204	79.786
82.0	76.545	78.113	76.545	75.185	74.976
82.5	70.480	72.257	71.107	70.270	70.061

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

83.0	64.728	66.506	65.878	65.460	65.356
83.5	58.977	60.964	60.755	60.650	60.650
84.0	53.539	55.631	55.735	55.944	56.154
84.5	48.206	50.402	50.925	51.448	51.657
85.0	42.978	45.278	46.219	46.951	47.265
85.5	38.063	40.364	41.618	42.560	43.082
86.0	33.253	35.553	37.122	38.272	38.795
86.5	28.652	31.057	32.730	34.089	34.821
87.0	24.155	26.561	28.443	30.011	30.848
87.5	19.764	22.273	24.365	26.038	26.874
88.0	15.476	18.090	20.286	22.064	23.110
88.5	11.293	13.908	16.208	18.300	19.450
89.0	7.006	9.620	12.025	13.908	15.058
89.5	2.823	5.228	6.797	7.634	8.366
90.0	0.627	2.405	3.660	4.706	5.124
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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CANDELA TABULATION - (Cont.)

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 : MX2D-4-00-P8-8TW-F-POE X_4000K.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 : MX2D-4-00-P8-8TW-F-POE X_4000K.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 : MX2D-4-00-P8-8TW-F-POE X_4000K.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	493.21	N.A.	15.80
0-30	1015.3	N.A.	32.60
0-40	1591.66	N.A.	51.10
0-60	2571.34	N.A.	82.60
0-80	3060.33	N.A.	98.30
0-90	3112.35	N.A.	100.00
10-90	2982.52	N.A.	95.80
20-40	1098.45	N.A.	35.30
20-50	1635.44	N.A.	52.50
40-70	1294.73	N.A.	41.60
60-80	488.99	N.A.	15.70
70-80	173.95	N.A.	5.60
80-90	52.02	N.A.	1.70
90-110	0.09	N.A.	0.00
90-120	0.09	N.A.	0.00
90-130	0.09	N.A.	0.00
90-150	0.09	N.A.	0.00
90-180	0.09	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	3112.44	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	129.83
10-20	363.38
20-30	522.09
30-40	576.36
40-50	536.99
50-60	442.70
60-70	315.04
70-80	173.95
80-90	52.02
90-100	0.09
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 : MX2D-4-00-P8-8TW-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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56	54
5	78	66	57	51	76	65	57	51	63	55	50	61	54	49	59	53	49	47
6	72	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	43	39	37
8	63	50	42	36	61	49	41	36	48	41	36	47	40	35	45	40	35	33
9	59	46	38	33	57	45	38	33	44	37	32	43	37	32	42	36	32	30
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX2D-4-00-P8-8TW-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	21.3	22.9	21.7	23.2	23.5	20.2	21.8	20.6	22.1	22.4
	3H	23.0	24.4	23.4	24.7	25.1	21.8	23.2	22.2	23.6	23.9
	4H	23.6	24.9	24.0	25.3	25.6	22.4	23.7	22.8	24.1	24.5
	6H	24.0	25.2	24.4	25.6	26.0	22.9	24.1	23.3	24.5	24.9
	8H	24.1	25.3	24.5	25.7	26.1	23.1	24.2	23.5	24.6	25.0
	12H	24.2	25.3	24.6	25.7	26.1	23.2	24.3	23.6	24.7	25.1

UGR Viewed Endwise

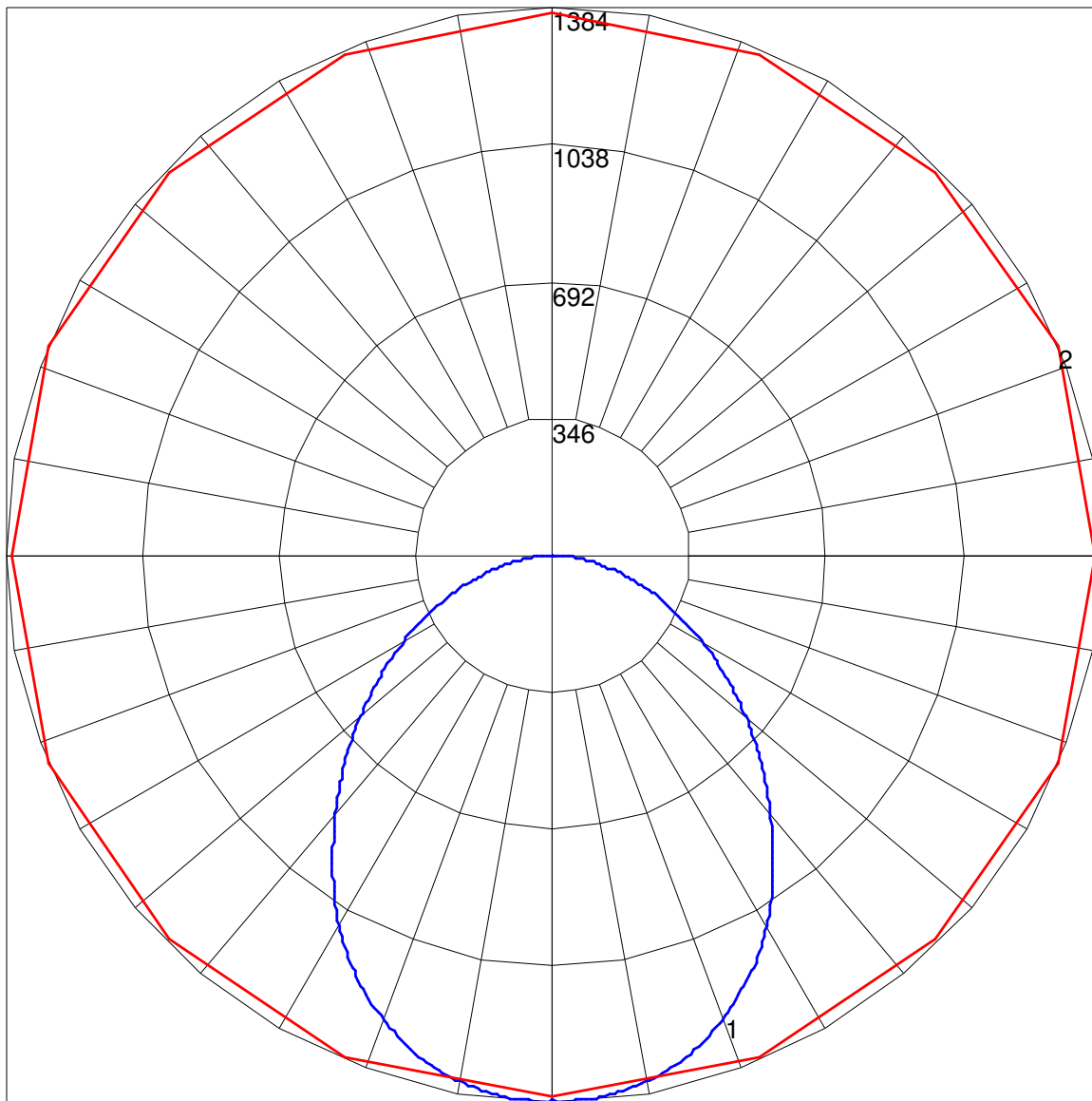
4H	2H	21.8	23.1	22.2	23.5	23.8	20.9	22.2	21.3	22.6	22.9
	3H	23.7	24.8	24.1	25.2	25.6	22.7	23.8	23.1	24.2	24.6
	4H	24.4	25.4	24.8	25.8	26.2	23.4	24.4	23.8	24.8	25.3
	6H	24.9	25.8	25.4	26.3	26.7	24.0	24.9	24.5	25.3	25.8
	8H	25.1	25.9	25.6	26.4	26.8	24.2	25.0	24.7	25.5	26.0
	12H	25.2	26.0	25.7	26.4	26.9	24.4	25.1	24.9	25.6	26.1

8H	4H	24.6	25.4	25.1	25.9	26.3	23.7	24.6	24.2	25.0	25.5
	6H	25.3	26.0	25.8	26.4	26.9	24.5	25.1	25.0	25.6	26.1
	8H	25.5	26.1	26.1	26.6	27.1	24.8	25.4	25.3	25.9	26.4
	12H	25.7	26.3	26.2	26.8	27.3	25.0	25.6	25.5	26.1	26.6

12H	4H	24.6	25.4	25.1	25.8	26.3	23.8	24.5	24.3	25.0	25.5
	6H	25.3	25.9	25.8	26.4	26.9	24.5	25.2	25.1	25.6	26.2
	8H	25.6	26.2	26.1	26.6	27.2	24.9	25.4	25.4	25.9	26.5

Maximum UGR = 27.3

POLAR GRAPH



Maximum Candela = 1384.493 Located At Horizontal Angle = 22.5, Vertical Angle = .5
1 - Vertical Plane Through Horizontal Angles (22.5 - 202.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (.5) (Through Max. Cd.)