

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4-00-L8-850U-L8-850D-F-F-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from UL #15177918.03 & UL #15177918.01

[TESTLAB] UL Verification Services Inc.

[ISSUE DATE] 2026-03-03

[TEST DATE] 2/19/2024

[MANUFAC] H E Williams Inc

[LUMCAT] MX4UDC-4-00-L8-850U-L8-850D-F-F-DIM-UNV

[LUMINAIRE] White linear extruded luminaire with up and downlight

[LAMP] 144 LEDs (2 LED boards with 72 LEDs per board)

[BALLAST] OTI50/120-277/1A4 DIM-1 L G2 #57452

[OTHER] 24.8 C, 119.951 V, 0.4435 A, 52.6728 W, 0.990119 PF, 60.0072 H

[OTHER] This test was performed using the calibrated photodetector

[MORE] method of absolute photometry.

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	7065
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	130
Total Luminaire Watts	54.2
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
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.33 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	9584	9344	9238
55	8810	8596	8506
65	8126	7930	7844
75	6891	6887	6883
85	5382	5598	5760

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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	1390.630	1390.630	1390.630	1390.630	1390.630
0.5	1411.629	1391.797	1384.797	1387.713	1383.047
1.0	1411.629	1391.213	1384.797	1387.713	1383.047
1.5	1411.046	1390.630	1384.214	1387.713	1382.464
2.0	1410.463	1390.047	1383.630	1387.130	1382.464
2.5	1409.880	1389.463	1382.464	1386.547	1381.880
3.0	1408.713	1388.297	1381.880	1385.963	1380.714
3.5	1407.546	1387.130	1380.714	1384.797	1379.547
4.0	1406.380	1385.963	1379.547	1383.630	1378.380
4.5	1405.213	1384.214	1378.380	1382.464	1376.630
5.0	1404.046	1383.047	1376.630	1380.714	1374.880
5.5	1402.296	1381.297	1374.880	1378.964	1373.130
6.0	1400.546	1378.964	1373.130	1377.214	1370.797
6.5	1398.213	1377.214	1370.797	1374.880	1369.047
7.0	1396.463	1374.880	1369.047	1372.547	1366.714
7.5	1394.713	1372.547	1366.714	1370.214	1364.964
8.0	1391.797	1370.214	1363.797	1367.881	1362.631
8.5	1389.463	1367.297	1360.881	1364.964	1359.714
9.0	1386.547	1364.964	1358.548	1362.047	1356.798
9.5	1383.630	1362.047	1355.048	1358.548	1353.881
10.0	1380.714	1359.131	1352.131	1355.631	1350.381
10.5	1377.214	1355.631	1348.631	1352.131	1347.465
11.0	1374.297	1352.131	1345.131	1348.631	1343.381
11.5	1370.214	1348.631	1341.631	1345.131	1339.881
12.0	1366.714	1345.131	1338.131	1341.048	1335.798
12.5	1363.214	1341.048	1334.048	1336.965	1331.715
13.0	1359.131	1337.548	1329.965	1332.882	1327.632
13.5	1355.048	1332.882	1325.882	1328.215	1323.548
14.0	1350.964	1328.798	1321.215	1324.132	1319.465
14.5	1346.881	1324.715	1316.549	1319.465	1314.799
15.0	1342.798	1320.049	1311.882	1314.799	1310.132
15.5	1337.548	1315.965	1307.216	1309.549	1304.882
16.0	1331.715	1311.299	1301.966	1304.882	1300.216
16.5	1325.882	1306.049	1296.716	1299.632	1294.966
17.0	1320.632	1300.799	1291.466	1294.383	1289.716
17.5	1314.799	1294.966	1285.633	1288.549	1283.883
18.0	1308.966	1289.133	1279.800	1282.716	1278.050
18.5	1303.132	1283.300	1273.966	1276.300	1272.216
19.0	1297.299	1277.466	1268.717	1270.467	1265.217
19.5	1290.883	1271.633	1262.883	1263.467	1258.217
20.0	1285.049	1265.217	1257.634	1257.050	1251.217
20.5	1278.633	1259.383	1251.800	1250.050	1244.217
21.0	1272.216	1252.967	1245.384	1243.051	1236.634
21.5	1265.217	1246.550	1238.384	1236.051	1229.051
22.0	1258.800	1239.551	1230.801	1228.468	1222.051
22.5	1251.800	1232.551	1223.801	1220.885	1214.468
23.0	1244.801	1225.551	1216.801	1212.718	1206.885
23.5	1237.801	1218.551	1209.218	1205.135	1199.885
24.0	1230.218	1211.551	1202.218	1197.552	1192.302
24.5	1222.634	1203.968	1194.635	1189.969	1184.719
25.0	1215.635	1196.385	1187.052	1182.386	1177.136
25.5	1208.052	1188.802	1178.886	1174.802	1168.969
26.0	1199.885	1180.636	1171.302	1167.219	1161.386
26.5	1192.302	1173.052	1163.136	1159.636	1153.803

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CANDELA TABULATION - (Cont.)

27.0	1184.135	1164.886	1154.970	1152.053	1145.636
27.5	1175.969	1156.720	1147.386	1144.470	1138.053
28.0	1167.803	1147.970	1138.637	1136.303	1129.887
28.5	1159.053	1139.220	1130.470	1128.720	1121.720
29.0	1150.303	1131.054	1122.304	1120.554	1113.554
29.5	1142.137	1122.304	1114.137	1111.804	1105.971
30.0	1133.387	1113.554	1105.971	1103.638	1097.804
30.5	1124.637	1104.804	1097.221	1095.471	1089.638
31.0	1115.304	1096.638	1088.471	1086.721	1081.472
31.5	1106.554	1087.888	1079.722	1077.972	1072.722
32.0	1097.221	1078.555	1070.972	1068.639	1063.972
32.5	1087.888	1069.805	1062.222	1059.889	1054.639
33.0	1078.555	1061.055	1053.472	1051.139	1045.306
33.5	1069.805	1051.722	1044.139	1041.806	1036.556
34.0	1059.889	1042.389	1035.389	1032.473	1027.223
34.5	1050.556	1033.056	1025.473	1023.140	1017.307
35.0	1041.223	1024.306	1016.140	1013.807	1007.390
35.5	1031.306	1014.390	1006.807	1004.474	997.474
36.0	1021.390	1005.057	997.474	994.557	988.141
36.5	1012.057	995.724	988.141	985.224	978.808
37.0	1002.140	985.807	978.224	975.308	968.891
37.5	992.224	975.891	968.891	965.391	959.558
38.0	981.724	965.975	958.975	955.475	949.642
38.5	971.808	956.058	949.058	946.142	939.725
39.0	962.475	946.142	939.142	936.225	930.392
39.5	951.975	936.225	929.809	926.309	919.892
40.0	942.059	925.726	919.892	916.393	910.559
40.5	931.559	915.809	909.976	906.476	900.643
41.0	921.642	905.309	900.060	895.976	890.143
41.5	911.143	895.393	889.560	886.060	879.643
42.0	901.226	884.893	879.643	876.144	869.727
42.5	891.310	874.977	869.727	865.644	859.811
43.0	880.810	865.061	859.811	855.727	849.311
43.5	870.894	854.561	849.311	845.811	839.395
44.0	860.394	844.061	838.811	835.311	829.478
44.5	849.894	833.561	828.312	824.812	818.978
45.0	839.395	823.645	818.395	814.312	809.062
45.5	829.478	813.145	807.895	804.395	799.146
46.0	818.978	802.646	797.396	793.896	789.229
46.5	808.479	792.146	787.479	783.979	779.313
47.0	797.979	781.646	776.980	773.480	768.813
47.5	786.896	771.146	766.480	762.980	758.897
48.0	776.396	760.647	755.980	753.063	748.397
48.5	765.896	750.147	746.064	742.564	737.897
49.0	754.813	739.647	735.564	732.064	727.981
49.5	744.314	729.147	725.064	722.148	718.064
50.0	733.231	718.648	714.565	711.648	707.565
50.5	722.148	708.148	704.065	701.148	697.648
51.0	711.065	697.648	693.565	690.648	687.149
51.5	700.565	687.149	683.065	680.732	676.649
52.0	690.065	676.649	672.566	670.232	666.732
52.5	678.982	666.149	662.066	660.316	656.233
53.0	668.482	655.649	651.566	649.816	645.733
53.5	657.399	645.150	641.066	639.316	635.233
54.0	646.900	634.650	631.150	629.400	624.734
54.5	636.400	624.734	620.650	618.900	614.234

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55.0	625.900	614.817	610.734	608.984	604.317
55.5	615.984	604.317	600.234	598.484	594.401
56.0	604.901	593.818	589.734	588.568	583.901
56.5	594.401	583.901	579.526	578.243	573.635
57.0	584.485	573.402	569.202	567.802	563.427
57.5	574.218	563.252	558.935	557.652	553.102
58.0	563.952	553.219	548.611	547.444	542.894
58.5	553.627	543.127	538.461	537.411	533.094
59.0	543.477	532.978	528.253	527.261	523.120
59.5	533.619	522.711	517.870	517.170	513.262
60.0	523.528	512.503	507.603	507.020	503.228
60.5	513.553	502.528	497.687	496.812	493.079
61.0	503.753	492.554	487.829	486.837	483.162
61.5	493.254	482.696	478.029	476.921	473.363
62.0	482.929	472.546	467.879	467.063	463.329
62.5	472.371	463.154	458.313	457.671	453.821
63.0	462.221	454.871	450.963	450.671	447.522
63.5	451.955	445.830	442.738	442.097	438.830
64.0	445.772	437.022	434.222	432.939	429.205
64.5	436.147	427.630	424.597	423.431	419.931
65.0	425.356	417.597	415.089	413.981	410.598
65.5	414.331	407.448	405.173	404.648	401.206
66.0	403.714	397.531	395.490	395.256	391.581
66.5	393.215	387.381	385.631	385.631	382.365
67.0	382.832	377.290	375.890	376.065	373.090
67.5	372.623	367.374	366.090	366.440	363.524
68.0	362.299	357.457	356.291	356.757	353.724
68.5	351.916	347.366	346.433	347.074	344.099
69.0	341.183	337.216	336.516	336.866	334.124
69.5	330.741	327.241	326.425	326.833	324.325
70.0	320.417	317.150	316.567	316.742	314.525
70.5	310.267	307.000	306.592	306.767	304.667
71.0	299.884	296.909	296.792	297.026	294.751
71.5	289.501	286.817	287.051	287.226	285.242
72.0	279.409	276.668	277.134	277.368	275.676
72.5	269.318	266.693	267.451	267.685	266.285
73.0	259.343	256.952	258.002	258.293	257.068
73.5	249.660	247.327	248.552	249.077	247.735
74.0	240.094	237.702	239.219	239.627	238.752
74.5	230.527	228.252	229.944	230.352	229.711
75.0	220.903	218.861	220.786	221.194	220.669
75.5	211.394	209.469	211.686	212.211	211.628
76.0	201.770	200.428	202.703	203.286	202.820
76.5	192.670	191.503	193.778	194.420	194.012
77.0	183.803	182.520	185.029	185.612	184.970
77.5	174.645	173.770	176.279	176.745	176.104
78.0	165.721	165.021	167.529	168.229	167.587
78.5	156.854	156.504	158.896	159.712	159.188
79.0	148.338	147.988	150.438	151.429	151.021
79.5	139.821	139.646	142.096	143.146	142.796
80.0	131.422	131.480	133.755	135.213	134.746
80.5	122.963	123.488	125.822	127.222	126.872
81.0	114.855	115.672	117.947	119.405	119.172
81.5	107.039	107.914	110.247	111.705	111.530
82.0	99.747	100.331	102.722	104.239	104.064
82.5	92.456	92.981	95.314	96.831	96.714

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CANDELA TABULATION - (Cont.)

83.0	85.164	85.981	88.023	89.598	89.714
83.5	77.990	78.981	80.964	82.481	82.831
84.0	71.281	72.098	73.965	75.423	75.948
84.5	64.457	65.332	67.082	68.540	69.065
85.0	58.098	58.798	60.432	61.715	62.182
85.5	51.915	52.265	53.665	55.007	55.474
86.0	45.849	45.965	47.190	48.415	48.999
86.5	39.841	39.841	40.949	42.057	42.582
87.0	33.774	33.774	34.591	35.991	36.399
87.5	27.766	27.824	28.583	29.983	30.508
88.0	22.049	21.991	22.749	24.266	24.849
88.5	16.566	16.216	17.208	18.549	19.366
89.0	10.733	10.558	11.900	13.183	14.058
89.5	4.958	5.891	7.117	8.108	8.400
90.0	0.000	0.000	0.000	0.000	0.000
90.5	3.600	1.898	1.752	1.703	1.849
91.0	7.931	4.184	3.406	3.357	3.308
91.5	12.747	8.514	5.060	5.011	4.963
92.0	17.613	14.158	7.298	6.520	6.520
92.5	22.673	19.997	11.288	8.174	8.028
93.0	27.927	25.592	15.959	10.850	9.779
93.5	33.231	30.944	20.970	14.645	12.747
94.0	38.437	36.199	26.516	19.170	16.786
94.5	43.789	41.453	32.306	23.840	21.164
95.0	49.043	46.854	37.999	28.609	25.495
95.5	54.298	51.914	43.545	33.523	30.068
96.0	59.309	57.071	48.995	38.631	34.739
96.5	64.369	62.228	54.444	43.837	39.556
97.0	69.283	67.288	59.844	49.043	44.664
97.5	74.343	72.397	65.294	54.347	49.773
98.0	79.355	77.409	70.597	59.601	54.930
98.5	84.366	82.469	75.706	64.953	60.088
99.0	89.475	87.675	80.912	70.062	65.294
99.5	94.632	92.832	86.166	75.170	70.402
100.0	99.692	98.038	91.421	80.425	75.414
100.5	104.947	103.244	96.675	85.874	80.474
101.0	110.347	108.450	102.027	91.372	85.972
101.5	115.845	113.753	107.477	96.870	91.664
102.0	121.197	119.251	112.926	102.368	97.308
102.5	126.792	124.700	118.570	107.866	102.903
103.0	132.533	130.344	124.165	113.315	108.596
103.5	138.275	136.085	130.101	119.154	114.240
104.0	144.162	141.875	136.134	125.187	120.127
104.5	150.244	147.908	142.167	131.366	126.014
105.0	156.471	154.087	148.151	137.448	131.998
105.5	162.845	160.364	154.330	143.578	137.934
106.0	169.316	166.689	160.607	149.806	143.870
106.5	175.836	173.208	167.175	156.082	149.854
107.0	182.793	180.020	174.181	162.748	156.374
107.5	189.994	187.026	181.285	169.802	163.429
108.0	197.146	194.227	188.534	177.441	170.678
108.5	204.687	201.574	195.784	185.080	178.171
109.0	212.423	209.066	203.228	192.816	185.761
109.5	220.354	216.851	211.061	200.503	193.448
110.0	228.820	224.830	219.089	208.385	201.476
110.5	237.480	233.004	227.311	216.851	209.796

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CANDELA TABULATION - (Cont.)

111.0	246.238	241.567	235.826	225.657	218.165
111.5	255.190	250.373	244.486	234.610	226.776
112.0	264.483	259.423	253.098	243.562	234.999
112.5	273.825	268.716	261.807	252.466	243.708
113.0	283.604	278.301	271.003	261.661	252.806
113.5	293.676	288.324	280.734	271.587	262.586
114.0	303.893	298.541	291.048	282.145	273.435
114.5	314.451	309.099	301.557	293.140	284.966
115.0	325.155	319.949	312.456	304.233	296.643
115.5	336.345	330.896	323.646	315.278	308.174
116.0	347.633	342.281	335.226	326.906	319.900
116.5	359.553	353.958	347.195	338.826	332.404
117.0	371.960	365.878	359.261	351.671	345.297
117.5	381.107	375.171	370.306	363.494	358.385
118.0	392.784	386.021	381.642	375.706	370.014
118.5	406.358	398.963	393.222	387.043	380.474
119.0	419.641	411.710	406.358	399.887	392.103
119.5	433.069	425.285	420.273	412.926	405.142
120.0	446.936	439.346	434.237	427.182	418.911
120.5	460.705	453.601	448.639	442.313	433.604
121.0	475.155	468.149	463.137	457.396	449.222
121.5	489.459	482.550	477.588	472.674	464.500
122.0	504.542	497.244	492.865	488.000	479.826
122.5	519.138	511.840	507.948	503.082	494.325
123.0	534.221	527.409	523.517	519.625	510.380
123.5	549.790	542.979	540.059	536.167	526.923
124.0	565.359	559.034	556.115	552.709	543.952
124.5	580.929	574.604	572.171	568.765	560.494
125.0	596.498	590.173	587.740	584.821	576.550
125.5	612.554	606.229	603.796	600.877	592.119
126.0	628.123	621.798	620.338	616.933	607.688
126.5	643.692	637.367	636.881	633.962	624.231
127.0	659.748	653.423	653.423	650.990	641.746
127.5	675.804	668.992	668.992	667.533	659.262
128.0	691.373	684.562	685.048	684.075	675.804
128.5	706.943	699.644	700.618	700.618	691.860
129.0	722.512	714.727	716.187	716.673	708.402
129.5	738.081	730.297	732.243	733.216	725.431
130.0	753.650	745.866	748.298	749.758	743.433
130.5	769.220	760.949	764.841	765.814	760.462
131.0	784.789	776.031	780.410	781.383	776.031
131.5	799.385	790.627	795.979	795.979	791.114
132.0	814.468	805.224	811.062	811.549	805.710
132.5	829.064	820.306	826.145	826.631	820.306
133.0	843.660	835.389	840.741	841.714	834.416
133.5	858.257	849.985	855.824	856.797	849.499
134.0	872.853	864.095	869.933	871.393	864.095
134.5	885.989	878.205	883.557	884.530	878.205
135.0	899.126	891.828	896.693	897.666	890.855
135.5	911.776	905.937	909.830	910.316	903.505
136.0	924.426	919.074	921.993	923.453	916.641
136.5	937.563	931.724	934.157	936.589	930.264
137.0	949.726	944.374	946.807	948.753	942.914
137.5	961.890	956.051	958.484	959.943	954.105
138.0	973.566	967.728	969.674	970.647	964.809
138.5	985.243	978.918	980.865	981.351	975.026

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

139.0	996.434	990.109	992.055	992.055	985.243
139.5	1007.624	1001.299	1002.759	1002.272	994.974
140.0	1018.328	1011.517	1013.463	1012.976	1005.678
140.5	1028.546	1021.247	1023.194	1022.707	1014.922
141.0	1038.763	1031.465	1032.924	1031.951	1024.167
141.5	1048.007	1040.709	1042.655	1041.196	1032.438
142.0	1057.738	1050.440	1051.899	1049.953	1041.196
142.5	1066.982	1059.684	1061.144	1059.198	1049.467
143.0	1076.226	1068.442	1069.901	1067.955	1058.224
143.5	1084.984	1077.686	1078.659	1076.713	1066.496
144.0	1093.255	1086.444	1086.930	1084.498	1074.280
144.5	1101.527	1094.715	1095.201	1092.282	1082.065
145.0	1109.311	1102.986	1102.986	1099.580	1089.363
145.5	1117.582	1111.257	1110.771	1107.852	1097.148
146.0	1125.367	1119.042	1118.555	1115.150	1104.932
146.5	1133.152	1126.827	1125.853	1122.934	1112.717
147.0	1140.450	1134.611	1132.665	1130.719	1120.502
147.5	1147.748	1141.909	1139.963	1138.017	1127.800
148.0	1155.046	1149.207	1146.288	1144.829	1135.584
148.5	1162.344	1156.506	1152.613	1151.640	1143.369
149.0	1169.156	1163.804	1158.938	1158.452	1151.154
149.5	1175.967	1170.615	1164.777	1165.263	1158.452
150.0	1182.779	1177.427	1171.102	1171.588	1165.263
150.5	1189.590	1184.238	1176.940	1177.427	1172.075
151.0	1195.915	1190.563	1182.779	1183.265	1178.400
151.5	1202.727	1196.888	1189.104	1189.104	1184.238
152.0	1209.052	1203.213	1194.942	1194.456	1190.077
152.5	1215.377	1209.052	1200.781	1200.294	1195.429
153.0	1221.702	1214.890	1206.619	1206.133	1200.294
153.5	1227.540	1220.729	1212.458	1211.971	1204.673
154.0	1233.379	1226.567	1218.783	1217.810	1209.538
154.5	1239.704	1231.919	1224.621	1223.161	1214.404
155.0	1245.542	1237.271	1230.460	1229.000	1219.756
155.5	1250.894	1242.137	1236.298	1234.838	1225.108
156.0	1256.246	1247.488	1242.623	1240.190	1230.460
156.5	1261.598	1252.840	1248.462	1246.029	1235.812
157.0	1266.950	1258.192	1254.300	1251.867	1241.163
157.5	1271.815	1263.058	1259.652	1257.219	1246.515
158.0	1276.681	1267.923	1265.004	1262.571	1251.867
158.5	1282.033	1273.275	1270.356	1267.923	1257.706
159.0	1286.412	1278.141	1275.221	1273.275	1263.058
159.5	1291.277	1283.006	1280.087	1278.627	1268.410
160.0	1295.656	1287.385	1284.952	1283.492	1273.762
160.5	1300.035	1291.764	1289.331	1288.358	1279.114
161.0	1304.414	1296.142	1293.710	1293.223	1284.466
161.5	1308.793	1301.008	1297.602	1298.089	1289.817
162.0	1313.658	1305.387	1301.494	1302.954	1294.683
162.5	1318.037	1309.766	1305.387	1307.333	1299.062
163.0	1322.416	1314.144	1309.279	1311.712	1303.441
163.5	1326.795	1318.037	1313.171	1316.091	1307.333
164.0	1331.173	1321.929	1316.577	1319.983	1311.225
164.5	1334.579	1325.821	1319.983	1323.875	1315.118
165.0	1338.471	1329.714	1323.389	1327.768	1318.523
165.5	1342.364	1333.120	1326.795	1331.173	1321.929
166.0	1346.256	1336.525	1330.200	1334.579	1324.848
166.5	1350.148	1339.931	1333.606	1337.498	1328.254

CANDELA TABULATION - (Cont.)

167.0	1353.554	1342.850	1336.525	1340.418	1331.173
167.5	1356.960	1345.770	1339.931	1343.337	1334.579
168.0	1360.366	1348.689	1342.850	1346.256	1337.498
168.5	1363.772	1351.608	1345.770	1349.175	1340.904
169.0	1366.691	1354.041	1348.689	1351.608	1343.823
169.5	1369.123	1356.473	1351.122	1354.041	1346.743
170.0	1371.556	1358.906	1353.554	1356.473	1350.148
170.5	1373.989	1361.339	1355.500	1358.906	1352.581
171.0	1376.422	1363.285	1357.447	1361.339	1355.014
171.5	1378.368	1365.231	1359.393	1363.772	1357.447
172.0	1380.314	1367.177	1360.852	1365.718	1359.393
172.5	1382.260	1369.123	1362.312	1367.177	1360.852
173.0	1384.206	1371.070	1363.772	1369.123	1361.825
173.5	1385.666	1372.529	1365.231	1370.097	1362.798
174.0	1387.125	1373.989	1366.691	1371.070	1363.285
174.5	1388.099	1374.962	1367.664	1372.043	1363.772
175.0	1389.072	1376.422	1368.637	1372.529	1363.772
175.5	1390.045	1377.395	1370.097	1373.016	1364.258
176.0	1391.018	1378.368	1371.070	1373.016	1364.258
176.5	1391.504	1379.341	1371.556	1373.502	1364.258
177.0	1391.991	1380.314	1372.529	1373.502	1363.772
177.5	1392.964	1381.287	1373.502	1373.502	1363.772
178.0	1393.450	1381.287	1373.989	1373.502	1364.258
178.5	1393.450	1381.774	1374.475	1373.502	1364.258
179.0	1393.937	1382.260	1374.475	1373.502	1364.258
179.5	1394.424	1382.260	1374.962	1373.502	1364.258
180.0	1377.395	1377.395	1377.395	1377.395	1377.395

IES INDOOR REPORT
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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	502.58	N.A.	7.10
0-30	1050.73	N.A.	14.90
0-40	1688.01	N.A.	23.90
0-60	2868.3	N.A.	40.60
0-80	3512.56	N.A.	49.70
0-90	3580.63	N.A.	50.70
10-90	3449.45	N.A.	48.80
20-40	1185.43	N.A.	16.80
20-50	1818.05	N.A.	25.70
40-70	1590.49	N.A.	22.50
60-80	644.26	N.A.	9.10
70-80	234.06	N.A.	3.30
80-90	68.07	N.A.	1.00
90-110	199.33	N.A.	2.80
90-120	511.71	N.A.	7.20
90-130	1036.63	N.A.	14.70
90-150	2411.13	N.A.	34.10
90-180	3484.72	N.A.	49.30
110-180	3285.38	N.A.	46.50
0-180	7065.35	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	131.18
10-20	371.40
20-30	548.14
30-40	637.28
40-50	632.63
50-60	547.67
60-70	410.19
70-80	234.06
80-90	68.07
90-100	42.99
100-110	156.34
110-120	312.37
120-130	524.93
130-140	686.39
140-150	688.11
150-160	568.41
160-170	374.56
170-180	130.62

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	99	99	99	99	84	84	84	70	70	70	57	57	57	51
1	98	94	90	86	90	87	83	80	73	71	69	61	60	58	50	49	48	43
2	89	82	76	70	82	76	70	66	64	60	57	54	51	48	44	42	40	36
3	81	72	64	59	75	67	60	55	57	52	48	48	44	41	39	37	34	30
4	74	64	56	50	68	59	52	47	50	45	41	42	38	35	35	32	30	26
5	68	57	49	43	63	53	45	40	45	39	35	38	34	30	31	28	26	23
6	63	51	43	37	58	47	40	35	41	35	31	34	30	27	29	25	23	20
7	58	46	38	32	54	43	36	31	37	31	27	31	27	24	26	23	20	18
8	54	42	34	29	50	39	32	27	34	28	24	29	24	21	24	21	18	16
9	50	38	31	25	46	36	29	24	31	25	22	26	22	19	22	19	16	14
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	21	17	15	13

IES INDOOR REPORT

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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	15.7	16.6	16.7	17.6	18.8	15.6	16.5	16.6	17.5	18.7
	3H	17.5	18.3	18.4	19.2	20.5	17.4	18.2	18.3	19.1	20.4
	4H	18.1	18.8	19.1	19.8	21.1	18.0	18.8	19.0	19.7	21.0
	6H	18.5	19.2	19.5	20.2	21.5	18.5	19.2	19.5	20.1	21.4
	8H	18.7	19.3	19.6	20.3	21.6	18.6	19.3	19.6	20.3	21.6
	12H	18.7	19.4	19.7	20.3	21.7	18.7	19.3	19.7	20.3	21.7

UGR Viewed Endwise

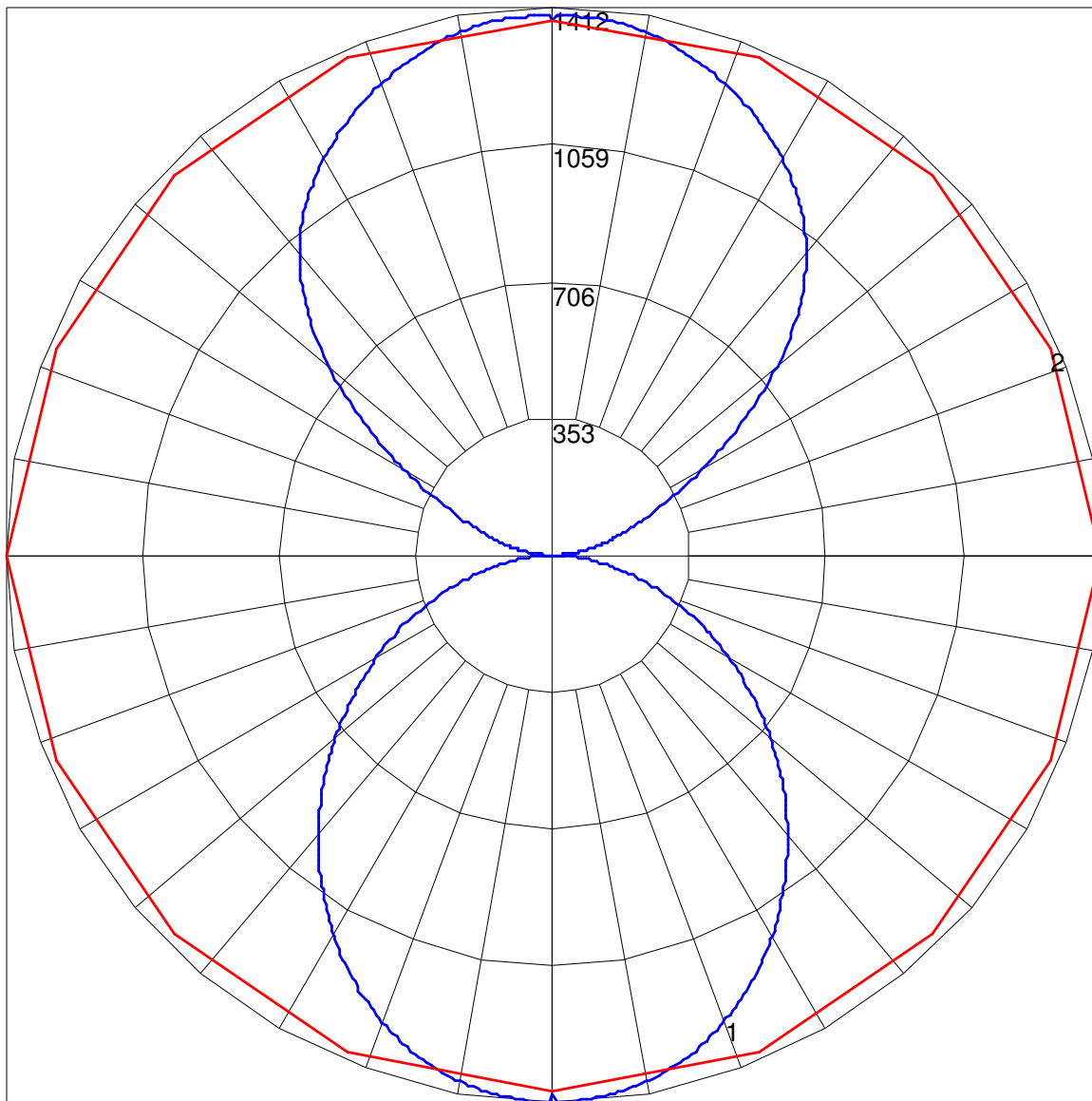
4H	2H	16.3	17.0	17.2	18.0	19.3	16.2	16.9	17.1	17.9	19.2
	3H	18.2	18.8	19.2	19.8	21.1	18.1	18.8	19.1	19.8	21.1
	4H	19.0	19.5	19.9	20.5	21.8	18.9	19.5	19.9	20.5	21.8
	6H	19.5	20.0	20.5	21.0	22.3	19.5	20.0	20.5	21.0	22.3
	8H	19.7	20.1	20.7	21.2	22.5	19.7	20.1	20.7	21.2	22.5
	12H	19.8	20.2	20.8	21.2	22.6	19.8	20.2	20.9	21.3	22.6

8H	4H	19.2	19.7	20.2	20.7	22.0	19.2	19.6	20.2	20.6	22.0
	6H	19.9	20.3	20.9	21.3	22.7	19.9	20.3	20.9	21.3	22.6
	8H	20.2	20.5	21.2	21.5	22.9	20.2	20.5	21.2	21.5	22.9
	12H	20.3	20.6	21.4	21.7	23.1	20.4	20.7	21.4	21.7	23.1

12H	4H	19.2	19.6	20.2	20.6	22.0	19.1	19.6	20.2	20.6	21.9
	6H	19.9	20.3	21.0	21.3	22.7	19.9	20.3	21.0	21.3	22.7
	8H	20.2	20.5	21.3	21.6	23.0	20.2	20.5	21.3	21.6	23.0

Maximum UGR = 23.1

POLAR GRAPH



Maximum Candela = 1411.629 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.)