



IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX2UD-4-00-L8-935U-L8-935D-F-F-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GEN FROM 13012869.08
 [TESTLAB] UL Verification Services Inc.
 [ISSUEDATE] 31 MARCH 2020
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO
 [LUMCAT] MX2DU-4-00-L8-935U-L8-935D-F-F-AC-Dxx-XX-DIM-UNV
 [LUMINAIRE] Formed White aluminum housing, lens enclosures
 [LAMP] 144 White Downlight LEDs/144 White Uplight LEDs

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5263
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	98
Total Luminaire Watts	53.6
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)	4.00 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	12801	5145	3884
55	10881	3578	2610
65	9008	2308	1642
75	6601	1234	877
85	3118	381	288

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	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	1123.703	1123.703	1123.703	1123.703	1123.703
0.5	1120.342	1130.427	1121.182	1122.023	1122.023
1.0	1120.342	1129.587	1121.182	1122.023	1122.023
1.5	1120.342	1129.587	1121.182	1122.023	1122.863
2.0	1119.501	1129.587	1120.342	1122.023	1122.863
2.5	1119.501	1128.746	1120.342	1122.863	1122.863
3.0	1118.661	1127.906	1119.501	1122.023	1122.023
3.5	1117.820	1127.065	1118.661	1122.023	1122.023
4.0	1116.139	1126.225	1117.820	1121.182	1121.182
4.5	1115.299	1125.384	1116.980	1120.342	1120.342
5.0	1114.458	1123.703	1115.299	1119.501	1118.661
5.5	1112.777	1122.863	1114.458	1117.820	1116.980
6.0	1111.096	1121.182	1112.777	1116.139	1115.299
6.5	1109.416	1119.501	1111.096	1113.618	1113.618
7.0	1107.735	1117.820	1109.416	1111.096	1111.096
7.5	1105.213	1116.139	1106.894	1108.575	1107.735
8.0	1103.532	1113.618	1105.213	1105.213	1104.373
8.5	1101.011	1111.096	1102.692	1101.851	1101.011
9.0	1098.489	1109.416	1100.170	1098.489	1097.649
9.5	1095.968	1106.894	1097.649	1095.128	1093.447
10.0	1093.447	1104.373	1094.287	1090.925	1088.404
10.5	1090.925	1101.851	1091.766	1087.563	1083.361
11.0	1088.404	1098.489	1087.563	1083.361	1079.159
11.5	1085.042	1095.128	1084.202	1078.318	1074.116
12.0	1081.680	1092.606	1079.999	1074.116	1068.233
12.5	1078.318	1089.244	1075.797	1069.073	1063.190
13.0	1074.956	1085.882	1071.595	1064.030	1057.307
13.5	1071.595	1081.680	1067.392	1058.988	1051.423
14.0	1067.392	1078.318	1062.349	1053.945	1046.381
14.5	1064.030	1074.116	1057.307	1048.062	1040.497
15.0	1059.828	1069.914	1052.264	1042.178	1033.774
15.5	1054.785	1065.711	1047.221	1036.295	1027.890
16.0	1050.583	1061.509	1042.178	1030.412	1021.167
16.5	1046.381	1056.466	1036.295	1023.688	1014.443
17.0	1042.178	1051.423	1030.412	1017.805	1008.560
17.5	1037.135	1047.221	1024.528	1011.081	1001.836
18.0	1032.093	1041.338	1018.645	1004.357	995.112
18.5	1027.890	1036.295	1012.762	998.474	988.388
19.0	1022.848	1031.252	1006.038	990.910	980.824
19.5	1017.805	1025.369	999.314	984.186	974.100
20.0	1011.921	1019.486	992.591	977.462	966.536
20.5	1006.879	1014.443	985.867	969.898	958.132
21.0	1001.836	1007.719	979.143	961.493	951.408
21.5	995.953	1001.836	972.420	953.929	942.163
22.0	990.069	995.953	965.696	946.365	934.599
22.5	984.186	989.229	958.132	937.960	927.034
23.0	978.303	983.346	951.408	929.556	917.789
23.5	972.420	976.622	943.844	921.151	909.385
24.0	965.696	969.898	936.279	912.746	900.139
24.5	959.813	963.174	929.556	904.342	891.735
25.0	952.248	956.451	921.151	895.097	882.490
25.5	945.525	949.727	913.587	886.692	874.085
26.0	938.801	942.163	906.023	878.287	865.680
26.5	931.237	934.599	897.618	869.883	856.435

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27.0	924.513	927.034	890.054	860.638	847.190
27.5	916.949	919.470	881.649	852.233	838.617
28.0	908.544	911.906	874.085	842.988	829.708
28.5	900.980	904.342	864.840	834.499	821.136
29.0	892.575	895.937	856.435	825.758	812.647
29.5	885.011	888.373	848.031	817.017	803.570
30.0	876.606	879.968	839.122	808.529	794.409
30.5	869.042	870.723	830.297	799.620	786.004
31.0	860.638	863.159	821.304	790.627	776.507
31.5	851.392	853.914	812.059	781.550	767.430
32.0	843.828	844.669	802.897	772.220	758.269
32.5	834.667	835.844	793.568	762.387	749.192
33.0	826.515	826.431	783.987	752.890	739.358
33.5	817.690	817.522	774.574	743.392	729.777
34.0	808.781	808.108	764.992	733.727	720.784
34.5	800.124	798.443	755.327	723.810	711.287
35.0	791.467	789.030	745.914	713.892	701.117
35.5	782.810	779.112	736.333	703.891	690.779
36.0	774.069	769.783	726.331	694.141	680.862
36.5	765.161	760.118	716.750	683.971	670.692
37.0	756.168	750.705	706.916	673.970	659.682
37.5	746.586	741.123	697.335	663.800	648.924
38.0	737.593	731.542	687.417	653.463	638.250
38.5	728.096	721.792	677.836	643.041	627.912
39.0	718.599	712.295	667.750	633.039	619.172
39.5	708.933	702.966	658.001	624.466	609.674
40.0	699.436	693.805	648.084	614.717	599.421
40.5	689.687	684.140	638.334	605.388	589.335
41.0	680.357	674.642	629.509	595.302	579.670
41.5	670.944	665.397	621.525	585.385	570.256
42.0	661.279	655.816	612.028	575.888	561.095
42.5	651.698	646.487	603.119	566.642	552.270
43.0	642.368	637.158	593.705	557.649	543.614
43.5	633.459	628.669	584.544	548.909	535.209
44.0	624.887	621.021	575.551	540.420	526.972
44.5	618.331	611.859	566.642	532.099	518.904
45.0	609.086	602.866	557.902	523.947	510.751
45.5	600.009	593.958	549.329	515.878	502.767
46.0	591.100	584.796	540.924	507.978	494.783
46.5	582.107	575.635	532.519	499.993	486.882
47.0	573.282	566.558	524.283	492.093	478.898
47.5	564.289	557.481	515.962	484.193	470.997
48.0	555.464	548.572	507.726	476.208	463.097
48.5	546.639	539.663	499.405	468.308	455.281
49.0	537.814	530.839	491.169	460.239	447.548
49.5	529.074	522.014	482.848	452.423	439.816
50.0	520.417	513.273	474.611	444.607	432.168
50.5	511.676	504.532	466.291	436.790	424.688
51.0	502.935	495.875	457.970	429.058	417.207
51.5	494.278	487.218	449.734	421.326	409.727
52.0	485.537	478.562	441.665	413.678	402.247
52.5	476.797	470.073	433.597	406.113	394.851
53.0	468.056	461.500	425.696	398.549	387.539
53.5	459.399	453.011	417.880	390.985	379.975
54.0	450.826	444.691	410.148	383.589	372.579
54.5	442.253	436.286	402.499	376.025	365.183

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55.0	433.765	428.049	394.851	368.544	357.787
55.5	425.276	419.897	387.287	361.232	350.474
56.0	416.871	411.744	379.723	353.836	343.078
56.5	408.551	403.760	372.158	346.692	335.934
57.0	400.314	395.692	364.594	339.464	328.874
57.5	392.162	387.623	357.030	332.404	321.983
58.0	384.177	379.555	349.550	325.345	315.091
58.5	376.193	371.570	342.070	318.453	308.451
59.0	368.544	363.754	334.758	311.561	301.727
59.5	360.980	356.022	327.362	304.753	295.172
60.0	353.416	348.289	320.134	298.029	288.700
60.5	345.936	340.641	312.990	291.390	282.229
61.0	338.372	332.993	305.930	284.834	275.841
61.5	330.808	325.513	298.870	278.362	269.538
62.0	323.159	318.032	291.894	271.891	263.402
62.5	315.595	310.636	285.002	265.503	257.267
63.0	308.115	303.324	278.278	259.284	251.215
63.5	300.719	296.012	271.471	253.064	245.164
64.0	293.323	288.616	264.747	246.845	239.197
64.5	285.927	281.304	258.107	240.710	233.229
65.0	278.699	274.076	251.468	234.658	227.430
65.5	271.387	266.848	244.912	228.607	221.631
66.0	264.159	259.704	238.440	222.640	215.832
66.5	256.847	252.560	231.885	216.588	210.033
67.0	249.534	245.584	225.413	210.453	204.149
67.5	242.306	238.524	219.026	204.485	198.350
68.0	235.162	231.464	212.638	198.518	192.635
68.5	228.019	224.489	206.166	192.635	186.920
69.0	220.959	217.429	199.863	186.752	181.205
69.5	213.899	210.537	193.475	180.868	175.657
70.0	206.755	203.645	187.256	175.069	170.026
70.5	199.695	196.837	181.036	169.354	164.563
71.0	192.719	189.945	174.817	163.723	159.184
71.5	185.743	183.138	168.766	158.092	153.973
72.0	178.935	176.330	162.966	152.629	148.847
72.5	172.128	169.690	157.083	147.334	143.720
73.0	165.404	163.135	151.200	142.039	138.677
73.5	158.680	156.663	145.401	136.828	133.718
74.0	152.124	150.191	139.686	131.701	128.759
74.5	145.569	143.888	134.138	126.658	123.885
75.0	139.097	137.668	128.591	121.700	119.010
75.5	132.794	131.449	123.128	116.825	114.303
76.0	126.490	125.398	117.749	112.034	109.681
76.5	120.355	119.430	112.454	107.244	105.142
77.0	114.303	113.547	107.244	102.537	100.520
77.5	108.252	107.748	102.117	97.998	96.065
78.0	102.369	102.033	97.158	93.376	91.527
78.5	96.570	96.486	92.199	88.921	87.156
79.0	90.938	91.023	87.493	84.467	82.954
79.5	85.391	85.644	82.786	80.180	78.752
80.0	79.928	80.433	78.247	75.894	74.633
80.5	74.549	75.390	73.709	71.692	70.599
81.0	69.423	70.431	69.254	67.658	66.649
81.5	64.464	65.640	64.884	63.623	62.783
82.0	59.505	60.934	60.598	59.589	58.917
82.5	54.714	56.227	56.479	55.723	55.219

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83.0	50.092	51.773	52.277	51.941	51.437
83.5	45.553	47.402	48.243	48.159	47.823
84.0	41.183	43.284	44.377	44.461	44.293
84.5	36.981	39.250	40.510	40.847	40.679
85.0	32.946	35.300	36.728	37.317	37.149
85.5	29.080	31.517	33.114	33.871	33.787
86.0	25.298	27.735	29.584	30.425	30.425
86.5	21.684	24.205	26.139	27.147	27.147
87.0	18.154	20.675	22.777	23.953	23.953
87.5	14.708	17.314	19.415	20.760	20.760
88.0	11.346	14.036	16.221	17.650	17.734
88.5	7.984	10.842	13.027	14.792	14.876
89.0	4.623	7.312	9.665	11.430	11.010
89.5	2.269	4.370	6.135	7.228	6.808
90.0	2.017	3.194	3.950	4.202	3.446
90.5	2.269	4.707	6.388	6.808	6.724
91.0	4.623	5.799	7.396	8.825	8.909
91.5	8.068	7.732	8.489	9.497	9.581
92.0	12.019	10.422	10.086	10.842	10.842
92.5	16.053	13.363	11.767	12.355	12.355
93.0	20.087	16.641	13.700	13.952	13.868
93.5	24.205	19.919	16.137	15.633	15.549
94.0	28.324	23.197	18.910	17.398	17.230
94.5	32.442	26.643	21.936	19.331	18.995
95.0	36.560	30.257	25.214	21.600	20.844
95.5	40.595	34.039	28.576	24.121	23.029
96.0	44.713	37.989	31.854	26.895	25.466
96.5	48.747	42.023	35.047	29.921	28.072
97.0	52.865	46.142	38.073	33.114	31.097
97.5	56.984	50.176	41.099	36.392	34.207
98.0	61.102	54.294	44.209	39.586	37.401
98.5	65.220	58.328	47.234	42.696	40.595
99.0	69.338	62.447	50.260	45.721	43.704
99.5	73.457	66.565	53.454	48.747	46.814
100.0	77.575	70.683	56.647	51.689	49.756
100.5	81.777	74.886	59.925	54.714	52.781
101.0	85.896	79.088	63.287	57.740	55.807
101.5	90.182	83.290	66.649	60.850	58.833
102.0	94.468	87.577	70.263	63.875	61.942
102.5	98.923	91.947	73.877	66.985	65.052
103.0	103.377	96.401	77.491	70.179	68.078
103.5	108.000	100.940	81.273	73.457	71.272
104.0	112.707	105.563	85.223	76.735	74.549
104.5	117.329	110.269	89.173	80.180	77.911
105.0	122.036	115.060	93.292	83.626	81.357
105.5	126.826	119.935	97.494	87.156	84.803
106.0	131.785	124.893	101.865	90.770	88.417
106.5	136.912	130.020	106.403	94.552	92.031
107.0	142.207	135.315	111.110	98.335	95.813
107.5	147.586	140.694	115.984	102.285	99.595
108.0	153.217	146.241	120.943	106.403	103.545
108.5	159.016	151.956	126.154	110.689	107.580
109.0	164.984	157.840	131.449	115.060	111.782
109.5	171.035	163.807	136.996	119.598	116.152
110.0	177.422	170.026	142.711	124.305	120.607
110.5	183.894	176.498	148.678	129.264	125.229

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111.0	190.702	183.054	154.898	134.391	130.020
111.5	197.594	189.861	161.370	139.854	135.063
112.0	204.906	197.005	168.093	145.485	140.442
112.5	212.386	204.317	175.069	151.452	145.905
113.0	220.118	211.966	182.381	157.587	151.704
113.5	228.103	219.782	189.945	163.975	157.587
114.0	236.423	227.850	197.762	170.699	163.975
114.5	244.912	236.171	205.914	177.759	170.531
115.0	253.737	244.828	214.319	185.071	177.506
115.5	262.814	253.737	223.144	192.719	184.650
116.0	272.059	262.898	232.221	200.787	192.215
116.5	281.640	272.395	241.634	209.276	200.031
117.0	291.642	281.976	251.383	218.017	208.352
117.5	301.896	291.978	261.385	227.178	217.008
118.0	312.485	302.148	271.723	236.675	225.917
118.5	323.327	312.738	282.397	246.425	235.162
119.0	334.422	323.580	293.239	256.510	244.828
119.5	345.684	334.674	304.501	267.100	254.829
120.0	357.030	346.104	316.099	277.942	265.167
120.5	368.713	357.787	327.950	289.204	275.841
121.0	380.647	369.805	340.137	300.887	286.935
121.5	392.918	382.076	352.576	312.990	298.534
122.0	405.441	394.683	365.351	325.345	310.468
122.5	418.300	407.374	378.378	338.204	322.907
123.0	431.411	420.317	391.573	351.315	335.598
123.5	444.691	433.428	405.021	364.678	348.625
124.0	458.054	446.792	418.636	378.378	361.989
124.5	471.670	460.155	432.420	392.498	375.772
125.0	485.285	473.771	446.456	406.870	390.060
125.5	498.817	487.470	460.576	421.578	404.516
126.0	512.264	501.254	474.779	436.454	419.141
126.5	525.796	515.038	488.983	451.583	434.101
127.0	539.579	528.990	503.439	466.879	449.481
127.5	553.447	542.941	517.811	482.344	464.946
128.0	567.231	557.061	532.183	497.808	480.579
128.5	580.930	571.013	546.471	513.273	496.211
129.0	594.294	584.881	560.591	528.821	511.928
129.5	607.825	598.664	574.711	544.286	527.897
130.0	619.592	611.944	588.663	559.835	544.034
130.5	630.686	623.374	602.446	575.215	560.003
131.0	643.461	636.149	614.717	590.428	576.056
131.5	656.320	648.756	627.408	604.800	592.024
132.0	668.927	661.699	639.091	618.835	606.228
132.5	681.534	674.390	652.118	633.123	621.861
133.0	693.973	686.745	665.061	645.646	637.242
133.5	705.992	699.268	677.752	659.346	650.437
134.0	717.674	711.203	690.359	672.877	665.313
134.5	729.273	723.137	702.546	686.157	679.769
135.0	740.115	734.484	714.733	699.184	693.721
135.5	751.125	745.746	726.667	711.707	707.084
136.0	761.799	756.756	738.266	724.230	720.280
136.5	771.800	767.598	749.696	736.164	733.223
137.0	781.718	777.852	761.210	748.267	745.662
137.5	791.383	788.273	771.632	759.866	757.848
138.0	801.048	798.191	782.474	771.128	769.447
138.5	810.546	808.108	792.644	781.970	780.457

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX2UD-4-00-L8-935U-L8-935D-F-F-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

139.0	819.203	817.690	802.477	792.728	791.635
139.5	827.943	827.103	812.311	802.897	802.057
140.0	836.600	835.760	821.556	813.319	812.395
140.5	844.669	844.669	830.717	822.985	822.144
141.0	853.073	853.073	840.046	832.566	831.641
141.5	860.638	861.478	848.871	842.147	841.307
142.0	868.202	869.883	858.116	850.552	850.552
142.5	875.766	877.447	865.680	859.797	858.957
143.0	883.330	885.011	874.085	868.202	868.202
143.5	890.054	892.575	882.490	876.606	876.606
144.0	896.778	899.299	890.054	885.011	885.011
144.5	903.501	906.863	896.778	893.416	893.416
145.0	910.225	913.587	904.342	900.980	901.820
145.5	916.949	920.311	911.065	908.544	910.225
146.0	922.832	927.034	917.789	916.108	917.789
146.5	929.556	932.918	924.513	923.672	926.194
147.0	935.439	938.801	931.237	930.396	932.918
147.5	940.482	945.525	937.120	937.120	940.482
148.0	947.206	951.408	943.844	943.844	947.206
148.5	953.089	957.291	949.727	949.727	953.929
149.0	958.972	963.174	955.610	955.610	959.813
149.5	964.015	969.058	961.493	961.493	965.696
150.0	969.898	974.100	967.377	966.536	970.739
150.5	974.941	979.984	973.260	971.579	975.781
151.0	979.984	985.027	979.143	977.462	980.824
151.5	985.867	990.910	984.186	982.505	985.027
152.0	990.910	995.953	990.069	987.548	989.229
152.5	995.953	1000.995	995.953	992.591	994.272
153.0	1000.995	1006.038	1000.995	997.634	998.474
153.5	1006.038	1010.241	1006.038	1002.676	1002.676
154.0	1010.241	1015.283	1011.081	1007.719	1006.879
154.5	1015.283	1020.326	1016.124	1012.762	1011.921
155.0	1019.486	1024.528	1021.167	1017.805	1016.124
155.5	1023.688	1028.731	1026.209	1022.848	1021.167
156.0	1027.890	1032.933	1030.412	1027.890	1026.209
156.5	1032.093	1037.135	1035.455	1032.933	1031.252
157.0	1035.455	1041.338	1039.657	1037.976	1035.455
157.5	1039.657	1045.540	1043.859	1043.019	1040.497
158.0	1043.859	1049.742	1048.062	1047.221	1045.540
158.5	1048.062	1053.104	1052.264	1052.264	1049.742
159.0	1051.423	1057.307	1055.626	1056.466	1053.945
159.5	1054.785	1060.668	1059.828	1061.509	1058.988
160.0	1058.147	1064.030	1064.030	1065.711	1063.190
160.5	1061.509	1067.392	1067.392	1069.073	1067.392
161.0	1064.871	1070.754	1070.754	1073.275	1071.595
161.5	1068.233	1074.116	1074.116	1076.637	1074.956
162.0	1071.595	1077.478	1077.478	1079.999	1079.159
162.5	1074.956	1080.840	1080.840	1083.361	1082.521
163.0	1078.318	1083.361	1084.202	1086.723	1085.882
163.5	1081.680	1086.723	1086.723	1089.244	1088.404
164.0	1085.042	1090.085	1090.085	1091.766	1091.766
164.5	1087.563	1093.447	1092.606	1094.287	1094.287
165.0	1090.925	1095.968	1095.128	1096.809	1096.809
165.5	1093.447	1098.489	1096.809	1099.330	1099.330
166.0	1096.809	1101.851	1099.330	1101.011	1101.851
166.5	1099.330	1104.373	1101.011	1103.532	1103.532

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX2UD-4-00-L8-935U-L8-935D-F-F-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

167.0	1101.851	1106.894	1103.532	1106.054	1106.894
167.5	1104.373	1109.416	1105.213	1107.735	1108.575
168.0	1106.894	1111.096	1107.735	1110.256	1110.256
168.5	1109.416	1113.618	1109.416	1111.937	1112.777
169.0	1111.096	1115.299	1111.096	1114.458	1115.299
169.5	1113.618	1117.820	1112.777	1116.139	1116.980
170.0	1115.299	1119.501	1114.458	1117.820	1119.501
170.5	1117.820	1121.182	1116.139	1119.501	1121.182
171.0	1119.501	1122.863	1116.980	1121.182	1122.863
171.5	1120.342	1123.703	1118.661	1122.863	1125.384
172.0	1122.863	1125.384	1120.342	1124.544	1127.065
172.5	1123.703	1127.065	1121.182	1126.225	1128.746
173.0	1125.384	1127.906	1122.863	1127.065	1130.427
173.5	1127.065	1129.587	1123.703	1127.906	1132.108
174.0	1127.906	1130.427	1124.544	1129.587	1132.949
174.5	1129.587	1131.268	1126.225	1130.427	1133.789
175.0	1130.427	1132.108	1127.065	1131.268	1134.630
175.5	1131.268	1132.949	1127.065	1132.108	1135.470
176.0	1132.949	1133.789	1128.746	1132.949	1136.310
176.5	1133.789	1134.630	1128.746	1132.949	1136.310
177.0	1133.789	1134.630	1129.587	1133.789	1136.310
177.5	1134.630	1135.470	1130.427	1133.789	1136.310
178.0	1135.470	1136.310	1130.427	1133.789	1137.151
178.5	1136.310	1136.310	1131.268	1134.630	1136.310
179.0	1136.310	1136.310	1131.268	1134.630	1136.310
179.5	1136.310	1136.310	1132.108	1134.630	1136.310
180.0	1134.630	1134.630	1134.630	1134.630	1134.630

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX2UD-4-00-L8-935U-L8-935D-F-F-DIM-UNV_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	402.21	N.A.	7.60
0-30	826.32	N.A.	15.70
0-40	1293.6	N.A.	24.60
0-60	2082.34	N.A.	39.60
0-80	2471.2	N.A.	47.00
0-90	2512.16	N.A.	47.70
10-90	2406.11	N.A.	45.70
20-40	891.39	N.A.	16.90
20-50	1324.74	N.A.	25.20
40-70	1039.9	N.A.	19.80
60-80	388.86	N.A.	7.40
70-80	137.69	N.A.	2.60
80-90	40.96	N.A.	0.80
90-110	136.64	N.A.	2.60
90-120	353.85	N.A.	6.70
90-130	749.64	N.A.	14.20
90-150	1863.99	N.A.	35.40
90-180	2751.08	N.A.	52.30
110-180	2614.44	N.A.	49.70
0-180	5263.24	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	106.05
10-20	296.16
20-30	424.12
30-40	467.28
40-50	433.35
50-60	355.39
60-70	251.17
70-80	137.69
80-90	40.96
90-100	31.06
100-110	105.57
110-120	217.21
120-130	395.80
130-140	548.91
140-150	565.43
150-160	470.39
160-170	309.20
170-180	107.50

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX2UD-4-00-L8-935U-L8-935D-F-F-DIM-UNV_.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-L8-935U-L8-935D-F-F-DIM-UNV_.IES

UGR TABLE - CORRECTED

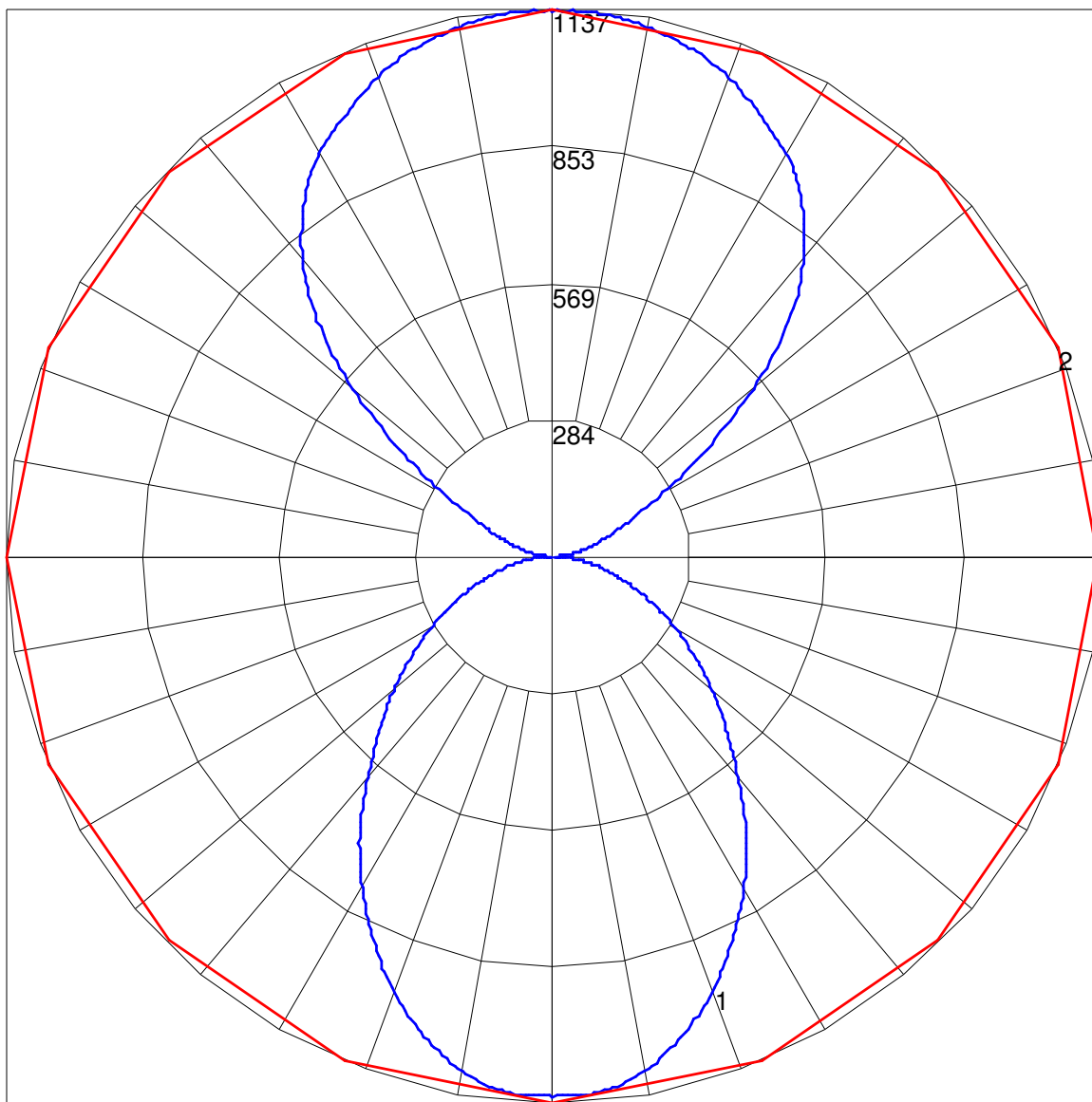
Reflectances

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	11.7	12.5	12.6	13.5	14.8	12.8	13.6	13.7	14.6	15.9
	3H	12.8	13.5	13.7	14.5	15.8	14.3	15.0	15.3	16.0	17.3
	4H	13.0	13.7	14.0	14.7	16.1	14.8	15.5	15.8	16.5	17.8
	6H	13.2	13.8	14.2	14.8	16.2	15.2	15.8	16.2	16.8	18.2
	8H	13.2	13.8	14.2	14.8	16.1	15.3	15.9	16.3	16.9	18.3
	12H	13.1	13.7	14.2	14.7	16.1	15.4	15.9	16.4	17.0	18.3
4H	2H	12.0	12.7	13.0	13.7	15.0	13.0	13.7	14.0	14.7	16.0
	3H	13.3	13.9	14.3	14.9	16.2	14.6	15.2	15.6	16.2	17.5
	4H	13.7	14.2	14.7	15.2	16.6	15.2	15.7	16.2	16.7	18.1
	6H	13.9	14.3	14.9	15.4	16.7	15.6	16.1	16.7	17.1	18.5
	8H	13.9	14.3	14.9	15.3	16.7	15.8	16.2	16.8	17.2	18.6
	12H	13.9	14.2	14.9	15.3	16.7	15.9	16.3	16.9	17.3	18.7
8H	4H	13.8	14.2	14.8	15.2	16.6	15.2	15.6	16.2	16.6	18.0
	6H	14.0	14.4	15.1	15.5	16.8	15.7	16.0	16.7	17.1	18.5
	8H	14.1	14.4	15.2	15.5	16.9	15.9	16.2	16.9	17.3	18.6
	12H	14.1	14.4	15.2	15.4	16.9	16.0	16.3	17.1	17.3	18.8
12H	4H	13.7	14.1	14.8	15.2	16.6	15.1	15.5	16.2	16.6	18.0
	6H	14.0	14.3	15.1	15.4	16.8	15.7	16.0	16.7	17.0	18.4
	8H	14.1	14.4	15.2	15.4	16.9	15.9	16.1	16.9	17.2	18.6

Maximum UGR = 18.8

POLAR GRAPH



Maximum Candela = 1137.151 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.)