



IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX2UD-4-00-L4-940U-L8-940D-F-F-DIM-UNV.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]GEN FROM 13012869.08
 [TESTLAB] UL Verification Services Inc.
 [ISSUE DATE] 04-14-2020
 [MANUFAC] H E Williams Inc
 [LUMCAT] MX2UD-4'00-L4/940U/L8/940D-F/F-DIM-UNV
 [LUMINAIRE] Formed White aluminum housing, lens enclosures
 [LAMP] 144 White Downlight LEDs/144 White Uplight LEDs
 [BALLAST] Two Philips Advance XI040C110V054BST1 Driver
 [OTHER] 24.1 C, 120.029 V, 0.426041 A, 50.7654 W, 0.992725 PF, 60 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	4020
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	100
Total Luminaire Watts	40.4
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	9873	3970	2998
55	8389	2761	2014
65	6942	1781	1267
75	5082	952	677
85	2395	294	223

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX2UD-4-00-L4-940U-L8-940D-F-F-DIM-UNV.IES****CANDELA TABULATION**

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	858.234	858.234	858.234	858.234	858.234
0.5	855.666	863.369	856.308	856.950	856.950
1.0	855.666	862.727	856.308	856.950	856.950
1.5	855.666	862.727	856.308	856.950	857.592
2.0	855.024	862.727	855.666	856.950	857.592
2.5	855.024	862.085	855.666	857.592	857.592
3.0	854.382	861.443	855.024	856.950	856.950
3.5	853.740	860.801	854.382	856.950	856.950
4.0	852.457	860.159	853.740	856.308	856.308
4.5	851.815	859.518	853.098	855.666	855.666
5.0	851.173	858.234	851.815	855.024	854.382
5.5	849.889	857.592	851.173	853.740	853.098
6.0	848.605	856.308	849.889	852.457	851.815
6.5	847.321	855.024	848.605	850.531	850.531
7.0	846.037	853.740	847.321	848.605	848.605
7.5	844.112	852.457	845.395	846.679	846.037
8.0	842.828	850.531	844.112	844.112	843.470
8.5	840.902	848.605	842.186	841.544	840.902
9.0	838.976	847.321	840.260	838.976	838.334
9.5	837.051	845.395	838.334	836.409	835.125
10.0	835.125	843.470	835.767	833.199	831.273
10.5	833.199	841.544	833.841	830.632	827.422
11.0	831.273	838.976	830.632	827.422	824.212
11.5	828.706	836.409	828.064	823.571	820.361
12.0	826.138	834.483	824.854	820.361	815.868
12.5	823.571	831.915	821.645	816.510	812.016
13.0	821.003	829.348	818.435	812.658	807.523
13.5	818.435	826.138	815.226	808.807	803.029
14.0	815.226	823.571	811.374	804.955	799.178
14.5	812.658	820.361	807.523	800.462	794.685
15.0	809.449	817.151	803.671	795.968	789.549
15.5	805.597	813.942	799.820	791.475	785.056
16.0	802.388	810.732	795.968	786.982	779.921
16.5	799.178	806.881	791.475	781.846	774.785
17.0	795.968	803.029	786.982	777.353	770.292
17.5	792.117	799.820	782.488	772.218	765.157
18.0	788.266	795.327	777.995	767.082	760.021
18.5	785.056	791.475	773.502	762.589	754.886
19.0	781.204	787.624	768.366	756.812	749.109
19.5	777.353	783.130	763.231	751.677	743.974
20.0	772.860	778.637	758.096	746.541	738.197
20.5	769.008	774.785	752.960	740.764	731.777
21.0	765.157	769.650	747.825	734.345	726.642
21.5	760.663	765.157	742.690	728.568	719.581
22.0	756.170	760.663	737.555	722.791	713.804
22.5	751.677	755.528	731.777	716.372	708.027
23.0	747.183	751.035	726.642	709.952	700.966
23.5	742.690	745.899	720.865	703.533	694.547
24.0	737.555	740.764	715.088	697.114	687.486
24.5	733.061	735.629	709.952	690.695	681.067
25.0	727.284	730.494	703.533	683.634	674.006
25.5	722.149	725.358	697.756	677.215	667.586
26.0	717.013	719.581	691.979	670.796	661.167
26.5	711.236	713.804	685.560	664.377	654.106

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX2UD-4-00-L4-940U-L8-940D-F-F-DIM-UNV.IES****CANDELA TABULATION - (Cont.)**

27.0	706.101	708.027	679.783	657.316	647.045
27.5	700.324	702.250	673.364	650.897	640.498
28.0	693.905	696.472	667.586	643.836	633.694
28.5	688.128	690.695	660.525	637.352	627.146
29.0	681.708	684.276	654.106	630.677	620.663
29.5	675.931	678.499	647.687	624.001	613.730
30.0	669.512	672.080	640.883	617.517	606.733
30.5	663.735	665.019	634.143	610.713	600.314
31.0	657.316	659.242	627.274	603.845	593.061
31.5	650.255	652.181	620.213	596.912	586.128
32.0	644.478	645.120	613.217	589.787	579.131
32.5	637.481	638.380	606.091	582.277	572.199
33.0	631.254	631.190	598.774	575.023	564.688
33.5	624.514	624.386	591.584	567.769	557.370
34.0	617.710	617.196	584.266	560.387	550.502
34.5	611.098	609.815	576.885	552.813	543.248
35.0	604.487	602.625	569.695	545.238	535.481
35.5	597.875	595.051	562.377	537.600	527.586
36.0	591.199	587.925	554.739	530.153	520.011
36.5	584.395	580.543	547.421	522.386	512.244
37.0	577.526	573.354	539.911	514.748	503.835
37.5	570.209	566.036	532.593	506.981	495.619
38.0	563.340	558.718	525.018	499.085	487.466
38.5	556.087	551.272	517.700	491.125	479.571
39.0	548.833	544.019	509.998	483.487	472.895
39.5	541.451	536.894	502.551	476.939	465.642
40.0	534.198	529.897	494.977	469.493	457.810
40.5	526.751	522.515	487.531	462.368	450.107
41.0	519.626	515.261	480.791	454.665	442.725
41.5	512.437	508.200	474.692	447.090	435.536
42.0	505.055	500.882	467.439	439.837	428.539
42.5	497.737	493.757	460.635	432.776	421.799
43.0	490.612	486.632	453.445	425.907	415.187
43.5	483.808	480.149	446.448	419.231	408.768
44.0	477.260	474.307	439.580	412.748	402.478
44.5	472.253	467.310	432.776	406.393	396.315
45.0	465.192	460.442	426.100	400.167	390.089
45.5	458.260	453.638	419.552	394.004	383.991
46.0	451.455	446.641	413.133	387.970	377.892
46.5	444.587	439.644	406.714	381.872	371.858
47.0	437.847	432.712	400.423	375.838	365.760
47.5	430.978	425.779	394.069	369.804	359.726
48.0	424.238	418.975	387.778	363.706	353.692
48.5	417.498	412.170	381.423	357.672	347.723
49.0	410.758	405.430	375.132	351.510	341.817
49.5	404.082	398.690	368.777	345.540	335.912
50.0	397.471	392.014	362.487	339.570	330.070
50.5	390.795	385.339	356.132	333.601	324.357
51.0	384.119	378.727	349.777	327.695	318.644
51.5	377.507	372.115	343.486	321.789	312.931
52.0	370.831	365.504	337.324	315.948	307.218
52.5	364.156	359.020	331.161	310.171	301.569
53.0	357.480	352.473	325.127	304.394	295.985
53.5	350.868	345.989	319.158	298.617	290.208
54.0	344.321	339.635	313.252	292.968	284.559
54.5	337.773	333.215	307.411	287.191	278.910

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55.0	331.290	326.925	301.569	281.478	273.261
55.5	324.806	320.698	295.792	275.893	267.676
56.0	318.387	314.472	290.015	270.244	262.028
56.5	312.032	308.374	284.238	264.788	256.571
57.0	305.742	302.211	278.461	259.267	251.179
57.5	299.515	296.049	272.683	253.875	245.916
58.0	293.417	289.887	266.970	248.483	240.652
58.5	287.319	283.788	261.257	243.220	235.581
59.0	281.478	277.819	255.673	237.956	230.446
59.5	275.700	271.913	250.024	232.757	225.439
60.0	269.923	266.008	244.504	227.621	220.496
60.5	264.210	260.166	239.047	222.550	215.553
61.0	258.433	254.325	233.655	217.543	210.675
61.5	252.656	248.612	228.263	212.601	205.861
62.0	246.814	242.899	222.935	207.658	201.175
62.5	241.037	237.250	217.672	202.779	196.489
63.0	235.324	231.665	212.536	198.029	191.867
63.5	229.675	226.081	207.337	193.279	187.245
64.0	224.027	220.432	202.202	188.529	182.688
64.5	218.378	214.847	197.131	183.843	178.130
65.0	212.857	209.327	192.059	179.221	173.701
65.5	207.273	203.806	187.053	174.600	169.272
66.0	201.752	198.350	182.110	170.042	164.842
66.5	196.168	192.894	177.103	165.420	160.413
67.0	190.583	187.566	172.160	160.734	155.920
67.5	185.063	182.174	167.282	156.177	151.491
68.0	179.606	176.782	162.403	151.619	147.126
68.5	174.150	171.454	157.461	147.126	142.761
69.0	168.758	166.062	152.646	142.632	138.396
69.5	163.366	160.798	147.768	138.139	134.159
70.0	157.910	155.535	143.018	133.710	129.858
70.5	152.518	150.335	138.267	129.345	125.686
71.0	147.190	145.072	133.517	125.044	121.578
71.5	141.862	139.872	128.896	120.743	117.598
72.0	136.663	134.673	124.466	116.571	113.682
72.5	131.463	129.602	119.973	112.527	109.767
73.0	126.328	124.595	115.480	108.483	105.915
73.5	121.193	119.652	111.050	104.503	102.128
74.0	116.186	114.709	106.685	100.587	98.341
74.5	111.179	109.895	102.449	96.736	94.618
75.0	106.236	105.145	98.212	92.949	90.894
75.5	101.422	100.395	94.040	89.225	87.300
76.0	96.607	95.773	89.932	85.567	83.769
76.5	91.922	91.215	85.888	81.908	80.303
77.0	87.300	86.722	81.908	78.313	76.772
77.5	82.678	82.293	77.992	74.847	73.370
78.0	78.185	77.928	74.205	71.316	69.904
78.5	73.755	73.691	70.418	67.914	66.566
79.0	69.455	69.519	66.823	64.512	63.357
79.5	65.218	65.411	63.228	61.238	60.147
80.0	61.046	61.431	59.762	57.964	57.002
80.5	56.937	57.579	56.296	54.755	53.920
81.0	53.022	53.792	52.893	51.674	50.903
81.5	49.234	50.133	49.555	48.593	47.951
82.0	45.447	46.538	46.282	45.511	44.998
82.5	41.788	42.944	43.136	42.559	42.173

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX2UD-4-00-L4-940U-L8-940D-F-F-DIM-UNV.IES****CANDELA TABULATION - (Cont.)**

83.0	38.258	39.542	39.927	39.670	39.285
83.5	34.792	36.204	36.846	36.781	36.525
84.0	31.454	33.058	33.893	33.957	33.829
84.5	28.244	29.977	30.940	31.197	31.068
85.0	25.163	26.960	28.051	28.501	28.372
85.5	22.210	24.072	25.291	25.869	25.805
86.0	19.321	21.183	22.595	23.237	23.237
86.5	16.561	18.487	19.963	20.734	20.734
87.0	13.865	15.791	17.396	18.294	18.294
87.5	11.233	13.223	14.828	15.855	15.855
88.0	8.666	10.720	12.389	13.480	13.544
88.5	6.098	8.281	9.950	11.298	11.362
89.0	3.531	5.585	7.382	8.730	8.409
89.5	1.733	3.338	4.686	5.520	5.199
90.0	1.541	2.439	3.017	3.210	2.632
90.5	1.733	3.595	4.879	5.199	5.135
91.0	3.531	4.429	5.649	6.740	6.804
91.5	6.162	5.906	6.483	7.254	7.318
92.0	9.179	7.960	7.703	8.281	8.281
92.5	12.260	10.206	8.987	9.436	9.436
93.0	15.342	12.710	10.463	10.656	10.592
93.5	18.487	15.213	12.325	11.940	11.875
94.0	21.632	17.717	14.443	13.288	13.159
94.5	24.778	20.349	16.754	14.764	14.507
95.0	27.923	23.109	19.257	16.497	15.919
95.5	31.004	25.997	21.825	18.423	17.588
96.0	34.150	29.014	24.328	20.541	19.450
96.5	37.231	32.096	26.768	22.852	21.440
97.0	40.376	35.241	29.079	25.291	23.751
97.5	43.521	38.322	31.389	27.795	26.126
98.0	46.667	41.467	33.764	30.234	28.565
98.5	49.812	44.549	36.075	32.609	31.004
99.0	52.958	47.694	38.386	34.920	33.379
99.5	56.103	50.839	40.825	37.231	35.754
100.0	59.248	53.985	43.265	39.477	38.001
100.5	62.458	57.194	45.768	41.788	40.312
101.0	65.603	60.404	48.336	44.099	42.623
101.5	68.877	63.613	50.903	46.474	44.934
102.0	72.151	66.887	53.664	48.785	47.309
102.5	75.553	70.225	56.424	51.160	49.684
103.0	78.955	73.627	59.184	53.599	51.995
103.5	82.485	77.093	62.073	56.103	54.434
104.0	86.080	80.624	65.090	58.606	56.937
104.5	89.611	84.219	68.107	61.238	59.505
105.0	93.205	87.877	71.252	63.870	62.137
105.5	96.864	91.601	74.462	66.566	64.769
106.0	100.651	95.388	77.799	69.326	67.529
106.5	104.567	99.303	81.266	72.215	70.289
107.0	108.611	103.348	84.861	75.103	73.178
107.5	112.719	107.456	88.584	78.120	76.066
108.0	117.020	111.692	92.371	81.266	79.083
108.5	121.449	116.057	96.351	84.540	82.164
109.0	126.007	120.551	100.395	87.877	85.374
109.5	130.629	125.108	104.631	91.344	88.712
110.0	135.507	129.858	108.996	94.938	92.114
110.5	140.450	134.801	113.554	98.726	95.645

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111.0	145.649	139.808	118.304	102.641	99.303
111.5	150.913	145.007	123.247	106.814	103.155
112.0	156.498	150.464	128.382	111.115	107.263
112.5	162.211	156.048	133.710	115.672	111.436
113.0	168.116	161.890	139.294	120.358	115.865
113.5	174.214	167.859	145.072	125.237	120.358
114.0	180.569	174.022	151.041	130.372	125.237
114.5	187.053	180.377	157.268	135.764	130.244
115.0	193.793	186.988	163.687	141.349	135.571
115.5	200.725	193.793	170.427	147.190	141.028
116.0	207.786	200.789	177.360	153.352	146.805
116.5	215.104	208.043	184.549	159.836	152.775
117.0	222.743	215.361	191.995	166.511	159.129
117.5	230.574	223.000	199.634	173.508	165.741
118.0	238.662	230.767	207.530	180.762	172.545
118.5	246.943	238.855	215.682	188.208	179.606
119.0	255.416	247.135	223.962	195.911	186.988
119.5	264.018	255.609	232.564	203.999	194.627
120.0	272.683	264.339	241.422	212.280	202.523
120.5	281.606	273.261	250.473	220.881	210.675
121.0	290.721	282.440	259.781	229.804	219.148
121.5	300.093	291.812	269.281	239.047	228.006
122.0	309.657	301.441	279.038	248.483	237.122
122.5	319.479	311.134	288.988	258.305	246.622
123.0	329.492	321.019	299.066	268.318	256.315
123.5	339.635	331.033	309.336	278.525	266.264
124.0	349.841	341.239	319.735	288.988	276.471
124.5	360.240	351.446	330.263	299.772	286.998
125.0	370.639	361.845	340.983	310.749	297.910
125.5	380.974	372.308	351.767	321.982	308.951
126.0	391.244	382.835	362.615	333.344	320.121
126.5	401.579	393.362	373.463	344.898	331.547
127.0	412.106	404.018	384.504	356.581	343.293
127.5	422.698	414.674	395.481	368.392	355.105
128.0	433.225	425.458	406.457	380.203	367.044
128.5	443.688	436.114	417.370	392.014	378.984
129.0	453.895	446.705	428.154	403.890	390.987
129.5	464.229	457.233	438.938	415.701	403.184
130.0	473.216	467.375	449.594	427.576	415.508
130.5	481.689	476.105	460.121	439.323	427.705
131.0	491.446	485.862	469.493	450.942	439.965
131.5	501.268	495.490	479.186	461.918	452.161
132.0	510.896	505.376	488.108	472.638	463.010
132.5	520.525	515.069	498.058	483.551	474.949
133.0	530.025	524.505	507.943	493.115	486.696
133.5	539.204	534.069	517.636	503.578	496.774
134.0	548.127	543.184	527.265	513.913	508.136
134.5	556.985	552.299	536.573	524.055	519.177
135.0	565.266	560.965	545.880	534.005	529.833
135.5	573.675	569.567	554.995	543.569	540.039
136.0	581.827	577.976	563.854	553.134	550.117
136.5	589.466	586.256	572.584	562.249	560.002
137.0	597.041	594.088	581.378	571.492	569.503
137.5	604.422	602.047	589.338	580.351	578.810
138.0	611.804	609.622	597.618	588.952	587.669
138.5	619.058	617.196	605.385	597.233	596.078

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX2UD-4-00-L4-940U-L8-940D-F-F-DIM-UNV.IES****CANDELA TABULATION - (Cont.)**

139.0	625.670	624.514	612.896	605.450	604.615
139.5	632.346	631.704	620.406	613.217	612.575
140.0	638.957	638.315	627.467	621.176	620.470
140.5	645.120	645.120	634.464	628.558	627.916
141.0	651.539	651.539	641.589	635.876	635.170
141.5	657.316	657.958	648.329	643.194	642.552
142.0	663.093	664.377	655.390	649.613	649.613
142.5	668.870	670.154	661.167	656.674	656.032
143.0	674.647	675.931	667.586	663.093	663.093
143.5	679.783	681.708	674.006	669.512	669.512
144.0	684.918	686.844	679.783	675.931	675.931
144.5	690.053	692.621	684.918	682.350	682.350
145.0	695.189	697.756	690.695	688.128	688.769
145.5	700.324	702.891	695.830	693.905	695.189
146.0	704.817	708.027	700.966	699.682	700.966
146.5	709.952	712.520	706.101	705.459	707.385
147.0	714.446	717.013	711.236	710.594	712.520
147.5	718.297	722.149	715.730	715.730	718.297
148.0	723.433	726.642	720.865	720.865	723.433
148.5	727.926	731.136	725.358	725.358	728.568
149.0	732.419	735.629	729.852	729.852	733.061
149.5	736.271	740.122	734.345	734.345	737.555
150.0	740.764	743.974	738.838	738.197	741.406
150.5	744.616	748.467	743.332	742.048	745.258
151.0	748.467	752.319	747.825	746.541	749.109
151.5	752.960	756.812	751.677	750.393	752.319
152.0	756.812	760.663	756.170	754.244	755.528
152.5	760.663	764.515	760.663	758.096	759.380
153.0	764.515	768.366	764.515	761.947	762.589
153.5	768.366	771.576	768.366	765.799	765.799
154.0	771.576	775.427	772.218	769.650	769.008
154.5	775.427	779.279	776.069	773.502	772.860
155.0	778.637	782.488	779.921	777.353	776.069
155.5	781.846	785.698	783.772	781.204	779.921
156.0	785.056	788.907	786.982	785.056	783.772
156.5	788.266	792.117	790.833	788.907	787.624
157.0	790.833	795.327	794.043	792.759	790.833
157.5	794.043	798.536	797.252	796.610	794.685
158.0	797.252	801.746	800.462	799.820	798.536
158.5	800.462	804.313	803.671	803.671	801.746
159.0	803.029	807.523	806.239	806.881	804.955
159.5	805.597	810.090	809.449	810.732	808.807
160.0	808.165	812.658	812.658	813.942	812.016
160.5	810.732	815.226	815.226	816.510	815.226
161.0	813.300	817.793	817.793	819.719	818.435
161.5	815.868	820.361	820.361	822.287	821.003
162.0	818.435	822.929	822.929	824.854	824.212
162.5	821.003	825.496	825.496	827.422	826.780
163.0	823.571	827.422	828.064	829.990	829.348
163.5	826.138	829.990	829.990	831.915	831.273
164.0	828.706	832.557	832.557	833.841	833.841
164.5	830.632	835.125	834.483	835.767	835.767
165.0	833.199	837.051	836.409	837.693	837.693
165.5	835.125	838.976	837.693	839.618	839.618
166.0	837.693	841.544	839.618	840.902	841.544
166.5	839.618	843.470	840.902	842.828	842.828

IES INDOOR REPORT
PHOTOMETRIC FILENAME : MX2UD-4-00-L4-940U-L8-940D-F-F-DIM-UNV.IES

CANDELA TABULATION - (Cont.)

167.0	841.544	845.395	842.828	844.754	845.395
167.5	843.470	847.321	844.112	846.037	846.679
168.0	845.395	848.605	846.037	847.963	847.963
168.5	847.321	850.531	847.321	849.247	849.889
169.0	848.605	851.815	848.605	851.173	851.815
169.5	850.531	853.740	849.889	852.457	853.098
170.0	851.815	855.024	851.173	853.740	855.024
170.5	853.740	856.308	852.457	855.024	856.308
171.0	855.024	857.592	853.098	856.308	857.592
171.5	855.666	858.234	854.382	857.592	859.518
172.0	857.592	859.518	855.666	858.876	860.801
172.5	858.234	860.801	856.308	860.159	862.085
173.0	859.518	861.443	857.592	860.801	863.369
173.5	860.801	862.727	858.234	861.443	864.653
174.0	861.443	863.369	858.876	862.727	865.295
174.5	862.727	864.011	860.159	863.369	865.937
175.0	863.369	864.653	860.801	864.011	866.579
175.5	864.011	865.295	860.801	864.653	867.220
176.0	865.295	865.937	862.085	865.295	867.862
176.5	865.937	866.579	862.085	865.295	867.862
177.0	865.937	866.579	862.727	865.937	867.862
177.5	866.579	867.220	863.369	865.937	867.862
178.0	867.220	867.862	863.369	865.937	868.504
178.5	867.862	867.862	864.011	866.579	867.862
179.0	867.862	867.862	864.011	866.579	867.862
179.5	867.862	867.862	864.653	866.579	867.862
180.0	866.579	866.579	866.579	866.579	866.579

IES INDOOR REPORT
PHOTOMETRIC FILENAME : MX2UD-4-00-L4-940U-L8-940D-F-F-DIM-UNV.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	307.19	N.A.	7.60
0-30	631.11	N.A.	15.70
0-40	987.99	N.A.	24.60
0-60	1590.39	N.A.	39.60
0-80	1887.39	N.A.	47.00
0-90	1918.67	N.A.	47.70
10-90	1837.68	N.A.	45.70
20-40	680.80	N.A.	16.90
20-50	1011.78	N.A.	25.20
40-70	794.23	N.A.	19.80
60-80	296.99	N.A.	7.40
70-80	105.16	N.A.	2.60
80-90	31.29	N.A.	0.80
90-110	104.36	N.A.	2.60
90-120	270.25	N.A.	6.70
90-130	572.54	N.A.	14.20
90-150	1423.63	N.A.	35.40
90-180	2101.15	N.A.	52.30
110-180	1996.79	N.A.	49.70
0-180	4019.82	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	80.99
10-20	226.19
20-30	323.92
30-40	356.88
40-50	330.97
50-60	271.43
60-70	191.83
70-80	105.16
80-90	31.29
90-100	23.72
100-110	80.63
110-120	165.90
120-130	302.29
130-140	419.23
140-150	431.85
150-160	359.26
160-170	236.15
170-180	82.11

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX2UD-4-00-L4-940U-L8-940D-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	43	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-L4-940U-L8-940D-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

X=2H	Y=2H	10.7	11.5	11.7	12.5	13.8	11.8	12.6	12.8	13.6	14.9
	3H	11.8	12.5	12.8	13.5	14.9	13.3	14.0	14.3	15.0	16.4
	4H	12.1	12.8	13.1	13.8	15.1	13.8	14.5	14.8	15.5	16.8
	6H	12.2	12.8	13.2	13.8	15.2	14.2	14.8	15.2	15.8	17.2
	8H	12.2	12.8	13.2	13.8	15.2	14.3	14.9	15.3	15.9	17.3
	12H	12.2	12.8	13.2	13.8	15.1	14.4	15.0	15.4	16.0	17.3

UGR Viewed Endwise

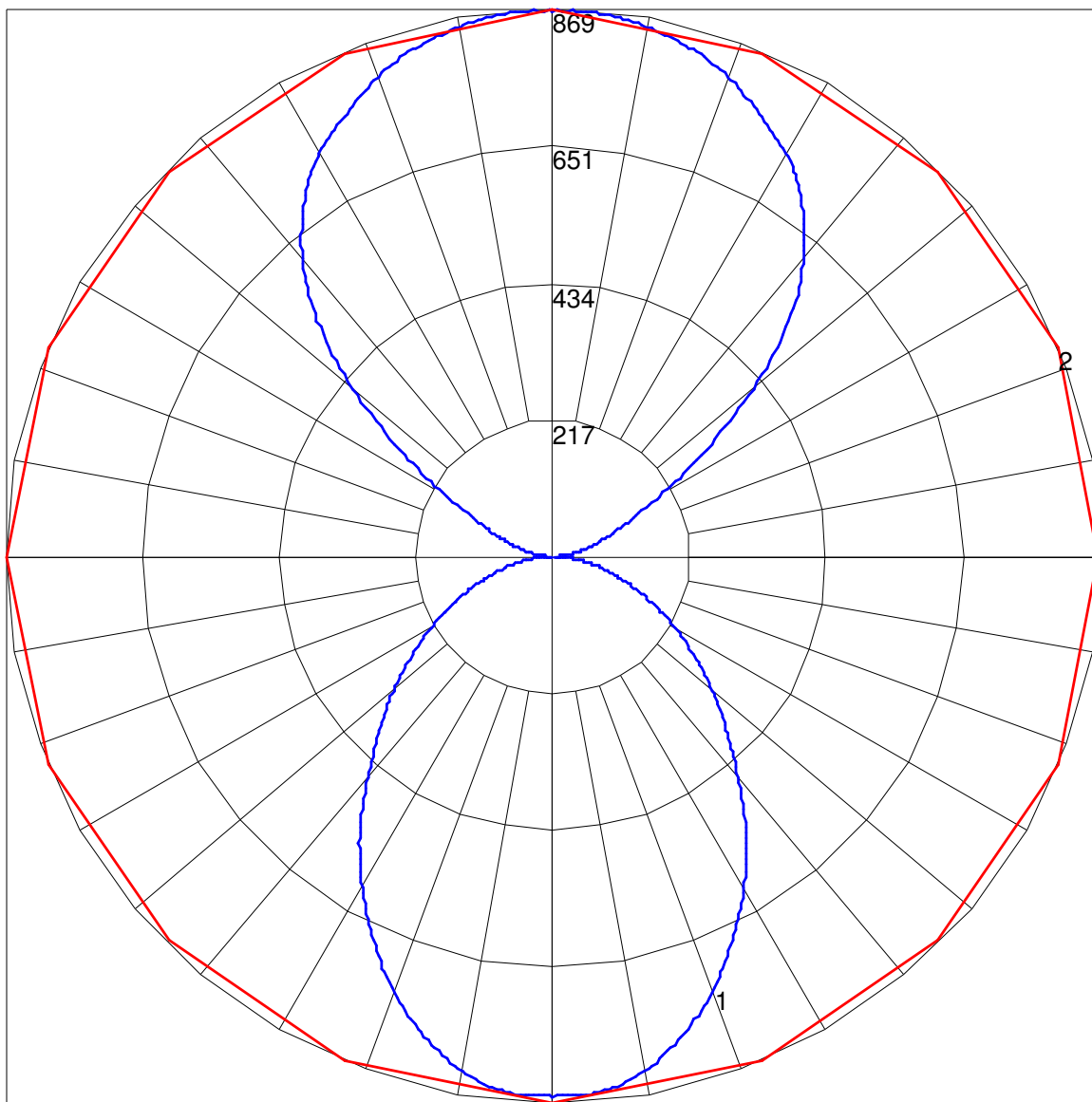
4H	2H	11.0	11.8	12.1	12.8	14.1	12.0	12.7	13.0	13.7	15.0
	3H	12.3	12.9	13.3	13.9	15.3	13.6	14.2	14.6	15.2	16.6
	4H	12.7	13.2	13.7	14.2	15.6	14.2	14.7	15.2	15.8	17.1
	6H	12.9	13.3	13.9	14.4	15.8	14.7	15.1	15.7	16.2	17.5
	8H	12.9	13.3	13.9	14.4	15.8	14.8	15.2	15.8	16.3	17.6
	12H	12.9	13.3	13.9	14.3	15.7	14.9	15.3	16.0	16.3	17.7

8H	4H	12.8	13.2	13.8	14.3	15.6	14.2	14.6	15.2	15.7	17.1
	6H	13.1	13.4	14.1	14.5	15.9	14.7	15.1	15.8	16.2	17.5
	8H	13.1	13.4	14.2	14.5	15.9	14.9	15.2	16.0	16.3	17.7
	12H	13.1	13.4	14.2	14.5	15.9	15.0	15.3	16.1	16.4	17.8

12H	4H	12.8	13.2	13.8	14.2	15.6	14.2	14.6	15.2	15.6	17.0
	6H	13.1	13.4	14.1	14.4	15.8	14.7	15.0	15.8	16.1	17.5
	8H	13.1	13.4	14.2	14.5	15.9	14.9	15.2	16.0	16.2	17.7

Maximum UGR = 17.8

POLAR GRAPH



Maximum Candela = 868.504 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.)