

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4-00-L8-827U-L8-827D-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-L8-827U-L8-827D-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	6465
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	119
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	8770	8551	8453
55	8062	7867	7784
65	7436	7256	7178
75	6306	6302	6299
85	4925	5123	5271

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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	1272.558	1272.558	1272.558	1272.558	1272.558
0.5	1291.774	1273.625	1267.220	1269.889	1265.618
1.0	1291.774	1273.092	1267.220	1269.889	1265.618
1.5	1291.240	1272.558	1266.686	1269.889	1265.085
2.0	1290.707	1272.024	1266.152	1269.355	1265.085
2.5	1290.173	1271.490	1265.085	1268.821	1264.551
3.0	1289.105	1270.423	1264.551	1268.287	1263.483
3.5	1288.038	1269.355	1263.483	1267.220	1262.416
4.0	1286.970	1268.287	1262.416	1266.152	1261.348
4.5	1285.903	1266.686	1261.348	1265.085	1259.747
5.0	1284.835	1265.618	1259.747	1263.483	1258.145
5.5	1283.234	1264.017	1258.145	1261.882	1256.544
6.0	1281.632	1261.882	1256.544	1260.281	1254.409
6.5	1279.497	1260.281	1254.409	1258.145	1252.808
7.0	1277.896	1258.145	1252.808	1256.010	1250.672
7.5	1276.294	1256.010	1250.672	1253.875	1249.071
8.0	1273.625	1253.875	1248.003	1251.740	1246.936
8.5	1271.490	1251.206	1245.334	1249.071	1244.267
9.0	1268.821	1249.071	1243.199	1246.402	1241.598
9.5	1266.152	1246.402	1239.997	1243.199	1238.929
10.0	1263.483	1243.733	1237.328	1240.530	1235.726
10.5	1260.281	1240.530	1234.125	1237.328	1233.057
11.0	1257.612	1237.328	1230.922	1234.125	1229.321
11.5	1253.875	1234.125	1227.719	1230.922	1226.118
12.0	1250.672	1230.922	1224.517	1227.186	1222.381
12.5	1247.470	1227.186	1220.780	1223.449	1218.645
13.0	1243.733	1223.983	1217.044	1219.712	1214.908
13.5	1239.997	1219.712	1213.307	1215.442	1211.172
14.0	1236.260	1215.976	1209.037	1211.706	1207.435
14.5	1232.523	1212.239	1204.766	1207.435	1203.165
15.0	1228.787	1207.969	1200.496	1203.165	1198.895
15.5	1223.983	1204.233	1196.226	1198.361	1194.091
16.0	1218.645	1199.962	1191.422	1194.091	1189.820
16.5	1213.307	1195.158	1186.617	1189.286	1185.016
17.0	1208.503	1190.354	1181.813	1184.482	1180.212
17.5	1203.165	1185.016	1176.475	1179.144	1174.874
18.0	1197.827	1179.678	1171.137	1173.806	1169.536
18.5	1192.489	1174.340	1165.800	1167.935	1164.198
19.0	1187.151	1169.002	1160.995	1162.597	1157.793
19.5	1181.280	1163.664	1155.658	1156.191	1151.387
20.0	1175.942	1157.793	1150.853	1150.320	1144.982
20.5	1170.070	1152.455	1145.516	1143.914	1138.576
21.0	1164.198	1146.583	1139.644	1137.509	1131.637
21.5	1157.793	1140.711	1133.238	1131.103	1124.698
22.0	1151.921	1134.306	1126.299	1124.164	1118.292
22.5	1145.516	1127.900	1119.894	1117.225	1111.353
23.0	1139.110	1121.495	1113.488	1109.752	1104.414
23.5	1132.705	1115.089	1106.549	1102.812	1098.008
24.0	1125.765	1108.684	1100.143	1095.873	1091.069
24.5	1118.826	1101.745	1093.204	1088.934	1084.130
25.0	1112.420	1094.805	1086.265	1081.994	1077.190
25.5	1105.481	1087.866	1078.792	1075.055	1069.717
26.0	1098.008	1080.393	1071.852	1068.116	1062.778
26.5	1091.069	1073.454	1064.379	1061.177	1055.839

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CANDELA TABULATION - (Cont.)

27.0	1083.596	1065.981	1056.906	1054.237	1048.366
27.5	1076.123	1058.508	1049.967	1047.298	1041.426
28.0	1068.650	1050.501	1041.960	1039.825	1033.953
28.5	1060.643	1042.494	1034.487	1032.886	1026.480
29.0	1052.636	1035.021	1027.014	1025.413	1019.007
29.5	1045.163	1027.014	1019.541	1017.406	1012.068
30.0	1037.156	1019.007	1012.068	1009.933	1004.595
30.5	1029.149	1011.000	1004.061	1002.460	997.122
31.0	1020.608	1003.527	996.054	994.453	989.649
31.5	1012.602	995.520	988.047	986.446	981.642
32.0	1004.061	986.980	980.040	977.905	973.635
32.5	995.520	978.973	972.033	969.898	965.094
33.0	986.980	970.966	964.027	961.891	956.554
33.5	978.973	962.425	955.486	953.351	948.547
34.0	969.898	953.885	947.479	944.810	940.006
34.5	961.358	945.344	938.405	936.269	930.932
35.0	952.817	937.337	929.864	927.729	921.857
35.5	943.743	928.263	921.323	919.188	912.783
36.0	934.668	919.722	912.783	910.114	904.242
36.5	926.127	911.181	904.242	901.573	895.701
37.0	917.053	902.107	895.168	892.499	886.627
37.5	907.979	893.032	886.627	883.424	878.086
38.0	898.370	883.958	877.552	874.350	869.012
38.5	889.296	874.883	868.478	865.809	859.937
39.0	880.755	865.809	859.404	856.735	851.397
39.5	871.147	856.735	850.863	847.660	841.788
40.0	862.072	847.126	841.788	838.586	833.248
40.5	852.464	838.052	832.714	829.511	824.173
41.0	843.390	828.444	823.640	819.903	814.565
41.5	833.782	819.369	814.031	810.829	804.957
42.0	824.707	809.761	804.957	801.754	795.882
42.5	815.633	800.687	795.882	792.146	786.808
43.0	806.024	791.612	786.808	783.071	777.200
43.5	796.950	782.004	777.200	773.997	768.125
44.0	787.342	772.396	767.591	764.389	759.051
44.5	777.734	762.787	757.983	754.780	749.443
45.0	768.125	753.713	748.909	745.172	740.368
45.5	759.051	744.105	739.301	736.098	731.294
46.0	749.443	734.496	729.692	726.490	722.219
46.5	739.834	724.888	720.618	717.415	713.145
47.0	730.226	715.280	711.010	707.807	703.537
47.5	720.084	705.672	701.401	698.199	694.462
48.0	710.476	696.063	691.793	689.124	684.854
48.5	700.868	686.455	682.719	679.516	675.246
49.0	690.726	676.847	673.110	669.908	666.171
49.5	681.117	667.239	663.502	660.833	657.097
50.0	670.975	657.631	653.894	651.225	647.489
50.5	660.833	648.022	644.286	641.617	638.414
51.0	650.691	638.414	634.678	632.009	628.806
51.5	641.083	628.806	625.069	622.934	619.198
52.0	631.475	619.198	615.461	613.326	610.123
52.5	621.333	609.589	605.853	604.251	600.515
53.0	611.725	599.981	596.245	594.643	590.907
53.5	601.582	590.373	586.636	585.035	581.298
54.0	591.974	580.765	577.562	575.961	571.690
54.5	582.366	571.690	567.954	566.352	562.082

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CANDELA TABULATION - (Cont.)

55.0	572.758	562.616	558.879	557.278	553.007
55.5	563.683	553.007	549.271	547.670	543.933
56.0	553.541	543.399	539.663	538.595	534.325
56.5	543.933	534.325	530.321	529.147	524.930
57.0	534.859	524.717	520.873	519.592	515.589
57.5	525.464	515.429	511.479	510.304	506.141
58.0	516.069	506.247	502.030	500.963	496.799
58.5	506.621	497.013	492.742	491.782	487.832
59.0	497.333	487.725	483.401	482.494	478.704
59.5	488.312	478.330	473.900	473.259	469.683
60.0	479.077	468.989	464.505	463.971	460.501
60.5	469.950	459.861	455.431	454.630	451.214
61.0	460.982	450.733	446.409	445.502	442.139
61.5	451.374	441.712	437.442	436.428	433.171
62.0	441.926	432.424	428.154	427.406	423.990
62.5	432.264	423.830	419.400	418.812	415.289
63.0	422.976	416.250	412.674	412.407	409.525
63.5	413.581	407.976	405.147	404.560	401.571
64.0	407.923	399.916	397.354	396.180	392.763
64.5	399.116	391.322	388.547	387.479	384.276
65.0	389.240	382.141	379.846	378.831	375.736
65.5	379.152	372.853	370.771	370.291	367.141
66.0	369.437	363.779	361.910	361.697	358.334
66.5	359.828	354.491	352.889	352.889	349.900
67.0	350.327	345.256	343.975	344.135	341.413
67.5	340.986	336.182	335.007	335.328	332.659
68.0	331.538	327.107	326.040	326.467	323.691
68.5	322.036	317.873	317.019	317.606	314.883
69.0	312.214	308.585	307.944	308.264	305.755
69.5	302.660	299.457	298.709	299.083	296.788
70.0	293.211	290.222	289.688	289.849	287.820
70.5	283.923	280.934	280.561	280.721	278.799
71.0	274.422	271.700	271.593	271.806	269.725
71.5	264.920	262.465	262.679	262.839	261.024
72.0	255.686	253.177	253.604	253.818	252.270
72.5	246.451	244.049	244.743	244.957	243.676
73.0	237.324	235.135	236.096	236.363	235.242
73.5	228.463	226.327	227.448	227.929	226.701
74.0	219.708	217.520	218.908	219.281	218.481
74.5	210.954	208.872	210.420	210.794	210.207
75.0	202.147	200.278	202.040	202.414	201.933
75.5	193.446	191.684	193.713	194.193	193.659
76.0	184.638	183.411	185.492	186.026	185.599
76.5	176.311	175.244	177.325	177.913	177.539
77.0	168.198	167.023	169.319	169.852	169.265
77.5	159.817	159.016	161.312	161.739	161.152
78.0	151.650	151.010	153.305	153.945	153.358
78.5	143.536	143.216	145.405	146.152	145.672
79.0	135.743	135.423	137.665	138.572	138.199
79.5	127.950	127.790	130.032	130.992	130.672
80.0	120.263	120.316	122.398	123.733	123.306
80.5	112.523	113.004	115.139	116.420	116.100
81.0	105.103	105.851	107.933	109.267	109.054
81.5	97.951	98.751	100.887	102.221	102.061
82.0	91.278	91.812	94.001	95.388	95.228
82.5	84.606	85.086	87.221	88.609	88.503

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CANDELA TABULATION - (Cont.)

83.0	77.933	78.681	80.549	81.990	82.097
83.5	71.368	72.275	74.090	75.478	75.798
84.0	65.229	65.977	67.685	69.019	69.500
84.5	58.984	59.785	61.386	62.720	63.201
85.0	53.166	53.806	55.301	56.475	56.902
85.5	47.507	47.828	49.109	50.337	50.763
86.0	41.956	42.063	43.184	44.305	44.838
86.5	36.458	36.458	37.472	38.486	38.967
87.0	30.907	30.907	31.654	32.935	33.309
87.5	25.408	25.462	26.156	27.437	27.917
88.0	20.177	20.124	20.818	22.206	22.740
88.5	15.160	14.839	15.747	16.975	17.722
89.0	9.822	9.662	10.889	12.064	12.864
89.5	4.537	5.391	6.512	7.420	7.687
90.0	0.000	0.000	0.000	0.000	0.000
90.5	3.295	1.736	1.603	1.558	1.692
91.0	7.257	3.829	3.117	3.072	3.028
91.5	11.665	7.792	4.630	4.586	4.541
92.0	16.117	12.956	6.678	5.966	5.966
92.5	20.748	18.299	10.329	7.480	7.346
93.0	25.556	23.419	14.604	9.929	8.949
93.5	30.409	28.317	19.189	13.401	11.665
94.0	35.173	33.125	24.265	17.542	15.360
94.5	40.071	37.934	29.563	21.816	19.368
95.0	44.879	42.876	34.772	26.180	23.330
95.5	49.688	47.506	39.848	30.676	27.515
96.0	54.274	52.225	44.835	35.351	31.789
96.5	58.904	56.945	49.821	40.115	36.197
97.0	63.401	61.575	54.763	44.879	40.872
97.5	68.031	66.250	59.750	49.732	45.547
98.0	72.617	70.836	64.603	54.541	50.266
98.5	77.203	75.466	69.278	59.438	54.986
99.0	81.878	80.230	74.042	64.113	59.750
99.5	86.597	84.950	78.850	68.788	64.425
100.0	91.228	89.714	83.659	73.597	69.011
100.5	96.036	94.478	88.467	78.583	73.641
101.0	100.978	99.242	93.365	83.614	78.672
101.5	106.009	104.095	98.351	88.645	83.881
102.0	110.907	109.126	103.338	93.676	89.046
102.5	116.027	114.112	108.503	98.707	94.166
103.0	121.281	119.277	113.623	103.694	99.375
103.5	126.534	124.531	119.055	109.037	104.540
104.0	131.922	129.829	124.575	114.558	109.927
104.5	137.487	135.350	130.096	120.212	115.315
105.0	143.186	141.004	135.573	125.777	120.791
105.5	149.018	146.748	141.227	131.387	126.223
106.0	154.940	152.536	146.970	137.086	131.655
106.5	160.906	158.502	152.981	142.830	137.131
107.0	167.273	164.735	159.392	148.929	143.097
107.5	173.862	171.146	165.893	155.385	149.553
108.0	180.407	177.736	172.527	162.375	156.187
108.5	187.308	184.459	179.161	169.365	163.043
109.0	194.387	191.315	185.973	176.445	169.989
109.5	201.645	198.439	193.141	183.479	177.023
110.0	209.392	205.741	200.487	190.692	184.370
110.5	217.317	213.221	208.011	198.439	191.983

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CANDELA TABULATION - (Cont.)

111.0	225.331	221.057	215.803	206.498	199.641
111.5	233.523	229.115	223.728	214.690	207.522
112.0	242.027	237.397	231.609	222.882	215.046
112.5	250.575	245.901	239.578	231.030	223.016
113.0	259.525	254.672	247.993	239.445	231.342
113.5	268.741	263.843	256.898	248.527	240.291
114.0	278.091	273.193	266.337	258.189	250.219
114.5	287.752	282.855	275.954	268.251	260.771
115.0	297.547	292.783	285.927	278.402	271.457
115.5	307.788	302.801	296.167	288.509	282.009
116.0	318.117	313.219	306.763	299.150	292.739
116.5	329.025	323.905	317.716	310.058	304.181
117.0	340.378	334.813	328.758	321.812	315.980
117.5	348.749	343.317	338.865	332.631	327.956
118.0	359.434	353.245	349.238	343.807	338.597
118.5	371.856	365.089	359.835	354.180	348.170
119.0	384.011	376.754	371.856	365.935	358.811
119.5	396.299	389.176	384.590	377.867	370.743
120.0	408.988	402.043	397.368	390.912	383.343
120.5	421.588	415.088	410.547	404.759	396.789
121.0	434.812	428.400	423.814	418.561	411.081
121.5	447.901	441.579	437.038	432.541	425.061
122.0	461.704	455.025	451.018	446.566	439.086
122.5	475.060	468.382	464.820	460.368	452.354
123.0	488.863	482.629	479.067	475.506	467.046
123.5	503.110	496.877	494.205	490.643	482.184
124.0	517.357	511.569	508.898	505.781	497.767
124.5	531.605	525.817	523.590	520.474	512.905
125.0	545.852	540.064	537.838	535.166	527.598
125.5	560.545	554.757	552.530	549.859	541.845
126.0	574.792	569.004	567.668	564.552	556.092
126.5	589.039	583.251	582.806	580.135	571.230
127.0	603.732	597.944	597.944	595.718	587.258
127.5	618.424	612.191	612.191	610.856	603.287
128.0	632.672	626.439	626.884	625.993	618.424
128.5	646.919	640.241	641.131	641.131	633.117
129.0	661.167	654.043	655.379	655.824	648.255
129.5	675.414	668.290	670.071	670.962	663.838
130.0	689.661	682.538	684.764	686.099	680.311
130.5	703.909	696.340	699.902	700.792	695.895
131.0	718.156	710.142	714.149	715.039	710.142
131.5	731.513	723.499	728.396	728.396	723.944
132.0	745.315	736.856	742.198	742.644	737.301
132.5	758.672	750.658	756.001	756.446	750.658
133.0	772.029	764.460	769.357	770.248	763.569
133.5	785.386	777.817	783.160	784.050	777.372
134.0	798.743	790.729	796.071	797.407	790.729
134.5	810.764	803.640	808.538	809.428	803.640
135.0	822.785	816.107	820.559	821.449	815.216
135.5	834.361	829.018	832.580	833.025	826.792
136.0	845.937	841.039	843.711	845.047	838.813
136.5	857.958	852.615	854.842	857.068	851.280
137.0	869.089	864.191	866.418	868.199	862.856
137.5	880.220	874.877	877.103	878.439	873.096
138.0	890.905	885.562	887.343	888.234	882.891
138.5	901.591	895.803	897.584	898.029	892.241

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

139.0	911.831	906.043	907.824	907.824	901.591
139.5	922.071	916.283	917.619	917.174	910.495
140.0	931.866	925.633	927.414	926.969	920.290
140.5	941.216	934.538	936.319	935.873	928.750
141.0	950.566	943.888	945.223	944.333	937.209
141.5	959.025	952.347	954.128	952.792	944.778
142.0	967.930	961.252	962.587	960.806	952.792
142.5	976.389	969.711	971.047	969.266	960.361
143.0	984.849	977.725	979.061	977.280	968.375
143.5	992.863	986.184	987.075	985.294	975.944
144.0	1000.432	994.199	994.644	992.418	983.068
144.5	1008.001	1001.768	1002.213	999.541	990.192
145.0	1015.124	1009.336	1009.336	1006.220	996.870
145.5	1022.693	1016.905	1016.460	1013.789	1003.994
146.0	1029.817	1024.029	1023.584	1020.467	1011.117
146.5	1036.941	1031.153	1030.262	1027.591	1018.241
147.0	1043.619	1038.276	1036.495	1034.715	1025.365
147.5	1050.298	1044.955	1043.174	1041.393	1032.043
148.0	1056.976	1051.633	1048.962	1047.626	1039.167
148.5	1063.655	1058.312	1054.750	1053.859	1046.291
149.0	1069.888	1064.990	1060.538	1060.093	1053.414
149.5	1076.121	1071.223	1065.881	1066.326	1060.093
150.0	1082.354	1077.457	1071.669	1072.114	1066.326
150.5	1088.587	1083.690	1077.011	1077.457	1072.559
151.0	1094.375	1089.478	1082.354	1082.799	1078.347
151.5	1100.609	1095.266	1088.142	1088.142	1083.690
152.0	1106.397	1101.054	1093.485	1093.040	1089.033
152.5	1112.185	1106.397	1098.828	1098.382	1093.930
153.0	1117.973	1111.739	1104.170	1103.725	1098.382
153.5	1123.315	1117.082	1109.513	1109.068	1102.390
154.0	1128.658	1122.425	1115.301	1114.411	1106.842
154.5	1134.446	1127.322	1120.644	1119.308	1111.294
155.0	1139.789	1132.220	1125.987	1124.651	1116.192
155.5	1144.686	1136.672	1131.329	1129.994	1121.089
156.0	1149.584	1141.570	1137.117	1134.891	1125.987
156.5	1154.481	1146.467	1142.460	1140.234	1130.884
157.0	1159.379	1151.365	1147.803	1145.577	1135.782
157.5	1163.831	1155.817	1152.701	1150.474	1140.679
158.0	1168.284	1160.269	1157.598	1155.372	1145.577
158.5	1173.181	1165.167	1162.496	1160.269	1150.920
159.0	1177.188	1169.619	1166.948	1165.167	1155.817
159.5	1181.640	1174.072	1171.400	1170.064	1160.715
160.0	1185.648	1178.079	1175.852	1174.517	1165.612
160.5	1189.655	1182.086	1179.860	1178.969	1170.510
161.0	1193.662	1186.093	1183.867	1183.421	1175.407
161.5	1197.669	1190.545	1187.428	1187.874	1180.305
162.0	1202.121	1194.552	1190.990	1192.326	1184.757
162.5	1206.128	1198.559	1194.552	1196.333	1188.764
163.0	1210.135	1202.566	1198.114	1200.340	1192.771
163.5	1214.142	1206.128	1201.676	1204.347	1196.333
164.0	1218.149	1209.690	1204.792	1207.909	1199.895
164.5	1221.266	1213.252	1207.909	1211.471	1203.457
165.0	1224.828	1216.814	1211.026	1215.033	1206.573
165.5	1228.390	1219.930	1214.142	1218.149	1209.690
166.0	1231.951	1223.047	1217.259	1221.266	1212.361
166.5	1235.513	1226.163	1220.375	1223.937	1215.478

CANDELA TABULATION - (Cont.)

167.0	1238.630	1228.835	1223.047	1226.609	1218.149
167.5	1241.747	1231.506	1226.163	1229.280	1221.266
168.0	1244.863	1234.178	1228.835	1231.951	1223.937
168.5	1247.980	1236.849	1231.506	1234.623	1227.054
169.0	1250.651	1239.075	1234.178	1236.849	1229.725
169.5	1252.877	1241.301	1236.404	1239.075	1232.397
170.0	1255.103	1243.527	1238.630	1241.301	1235.513
170.5	1257.330	1245.754	1240.411	1243.527	1237.739
171.0	1259.556	1247.534	1242.192	1245.754	1239.966
171.5	1261.337	1249.315	1243.973	1247.980	1242.192
172.0	1263.118	1251.096	1245.308	1249.761	1243.973
172.5	1264.898	1252.877	1246.644	1251.096	1245.308
173.0	1266.679	1254.658	1247.980	1252.877	1246.199
173.5	1268.015	1255.994	1249.315	1253.768	1247.089
174.0	1269.351	1257.330	1250.651	1254.658	1247.534
174.5	1270.241	1258.220	1251.542	1255.549	1247.980
175.0	1271.132	1259.556	1252.432	1255.994	1247.980
175.5	1272.022	1260.446	1253.768	1256.439	1248.425
176.0	1272.913	1261.337	1254.658	1256.439	1248.425
176.5	1273.358	1262.227	1255.103	1256.884	1248.425
177.0	1273.803	1263.118	1255.994	1256.884	1247.980
177.5	1274.694	1264.008	1256.884	1256.884	1247.980
178.0	1275.139	1264.008	1257.330	1256.884	1248.425
178.5	1275.139	1264.453	1257.775	1256.884	1248.425
179.0	1275.584	1264.898	1257.775	1256.884	1248.425
179.5	1276.029	1264.898	1258.220	1256.884	1248.425
180.0	1260.446	1260.446	1260.446	1260.446	1260.446

IES INDOOR REPORT
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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	459.91	N.A.	7.10
0-30	961.51	N.A.	14.90
0-40	1544.69	N.A.	23.90
0-60	2624.77	N.A.	40.60
0-80	3214.32	N.A.	49.70
0-90	3276.62	N.A.	50.70
10-90	3156.57	N.A.	48.80
20-40	1084.78	N.A.	16.80
20-50	1663.69	N.A.	25.70
40-70	1455.45	N.A.	22.50
60-80	589.55	N.A.	9.10
70-80	214.19	N.A.	3.30
80-90	62.29	N.A.	1.00
90-110	182.41	N.A.	2.80
90-120	468.26	N.A.	7.20
90-130	948.62	N.A.	14.70
90-150	2206.41	N.A.	34.10
90-180	3188.84	N.A.	49.30
110-180	3006.43	N.A.	46.50
0-180	6465.46	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	120.05
10-20	339.86
20-30	501.60
30-40	583.17
40-50	578.92
50-60	501.17
60-70	375.36
70-80	214.19
80-90	62.29
90-100	39.34
100-110	143.07
110-120	285.85
120-130	480.36
130-140	628.11
140-150	629.68
150-160	520.15
160-170	342.76
170-180	119.53

IES INDOOR REPORT
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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	15.4	16.3	16.4	17.3	18.5	UGR Viewed Endwise	15.3	16.2	16.3	17.2	18.4
	3H	17.2	18.0	18.1	18.9	20.2		17.1	17.9	18.0	18.8	20.1
	4H	17.8	18.5	18.8	19.5	20.8		17.7	18.5	18.7	19.4	20.7
	6H	18.2	18.9	19.2	19.9	21.2		18.2	18.9	19.2	19.8	21.1
	8H	18.4	19.0	19.3	20.0	21.3		18.3	19.0	19.3	20.0	21.3
	12H	18.4	19.1	19.4	20.0	21.4		18.4	19.0	19.4	20.0	21.4

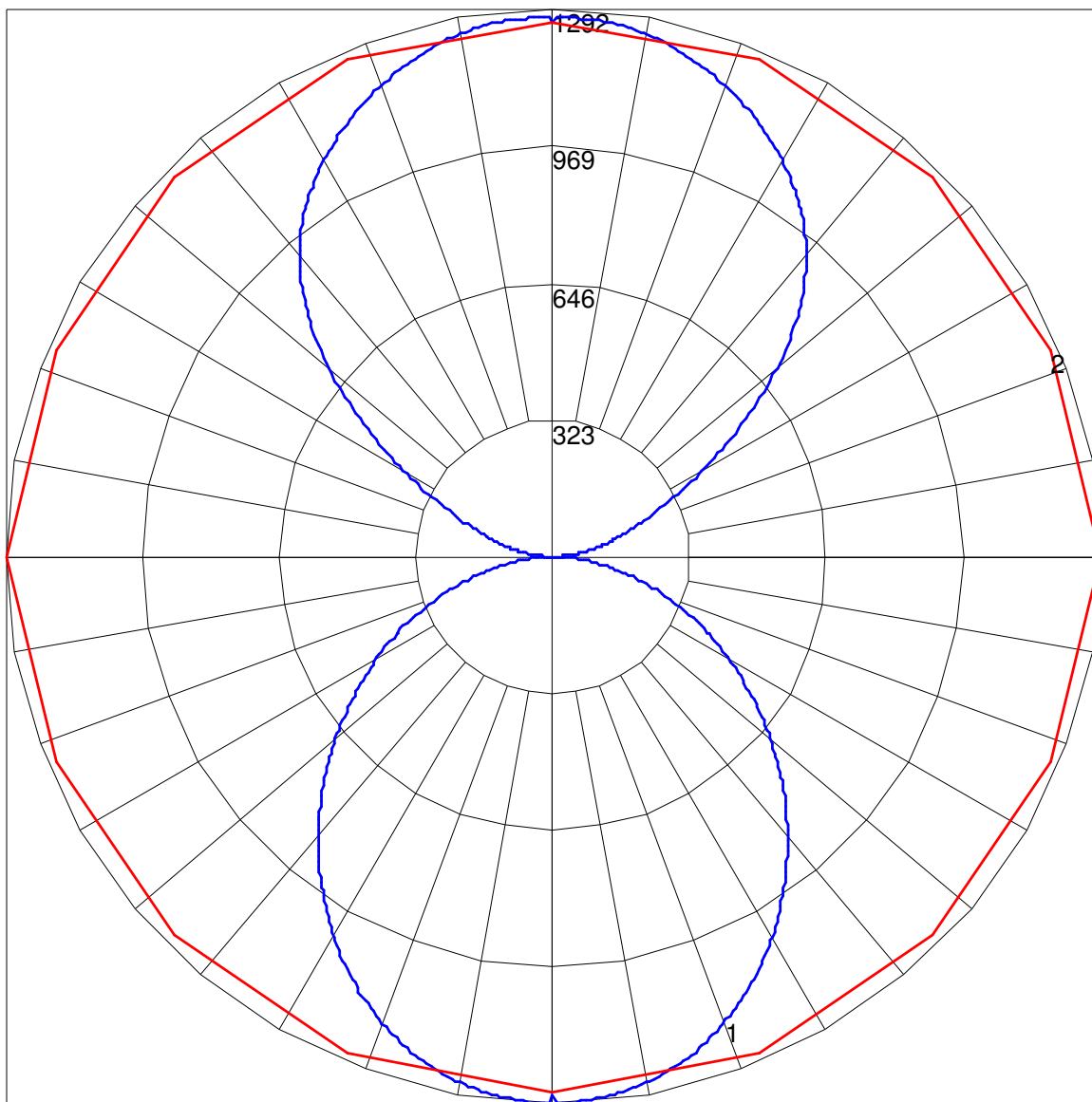
4H	2H	16.0	16.7	16.9	17.7	19.0		15.9	16.6	16.8	17.6	18.9
	3H	17.9	18.5	18.9	19.5	20.8		17.8	18.5	18.8	19.5	20.8
	4H	18.7	19.2	19.6	20.2	21.5		18.6	19.2	19.6	20.2	21.5
	6H	19.2	19.7	20.2	20.7	22.0		19.2	19.7	20.2	20.7	22.0
	8H	19.4	19.8	20.4	20.9	22.2		19.4	19.8	20.4	20.9	22.2
	12H	19.5	19.9	20.5	20.9	22.3		19.5	19.9	20.6	21.0	22.3

8H	4H	18.9	19.4	19.9	20.4	21.7		18.9	19.3	19.9	20.3	21.7
	6H	19.6	20.0	20.6	21.0	22.4		19.6	20.0	20.6	21.0	22.3
	8H	19.9	20.2	20.9	21.2	22.6		19.9	20.2	20.9	21.2	22.6
	12H	20.0	20.3	21.1	21.4	22.8		20.1	20.4	21.1	21.4	22.8

12H	4H	18.9	19.3	19.9	20.3	21.7		18.8	19.3	19.9	20.3	21.6
	6H	19.6	20.0	20.7	21.0	22.4		19.6	20.0	20.7	21.0	22.4
	8H	19.9	20.2	21.0	21.3	22.7		19.9	20.2	21.0	21.3	22.7

Maximum UGR = 22.8

POLAR GRAPH



Maximum Candela = 1291.774 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.)