



IES INDOOR REPORT
PHOTOMETRIC FILENAME : MX2D-4-00-L12-835-FA-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN from UL #15492554.01
[TESTLAB] UL Verification Services Inc.
[ISSUEDATE] 7 OCT, 2024
[TESTDATE] 9/24/2024
[MANUFAC] H E WILLIAMS INC
[LUMCAT] MX2D-4'00-L12/835-S-FA-DIM-UNV
[LUMINAIRE] White rectangular light fixture with frosted lens, surface
[MORE] mount fixture
[LAMP] 2 modules with 72 LEDs each
[BALLAST] OTI 50/120-277/1A4 DIM1 L G2
[OTHER] 25.9 C, 120.136 V, 0.323686 A, 38.3666 W, 0.986633 PF, 59.9709
[MORE] Hz
[OTHER] This test was performed using the calibrated photodetector met
[MORE] hod of absolute photometry.
[OTHER] The reported results were measured in a facility that meets th
[MORE] e requirements of ANSI/IES LM-75-19. The device under test emits no de
[MORE] tectable uplight as defined by ANSI/IES LM-75-19.

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3698
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	92
Total Luminaire Watts	40.4
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.56
Spacing Criterion (90-270)	1.16
Spacing Criterion (Diagonal)	1.46
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.17 ft
Luminous Width (90-270)	4.00 ft
Luminous Height	0.00 ft

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LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	25256	22745	16117
55	23615	21821	15023
65	21146	20059	13607
75	17177	16585	11385
85	10707	9836	6528

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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>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>
0.0	1252.582	1252.582	1252.582	1252.582	1252.582	1252.582	1252.582	1252.582	1252.582
0.5	1252.582	1256.352	1252.582	1253.525	1240.330	1253.525	1251.640	1255.410	1252.582
1.0	1253.525	1257.295	1253.525	1254.467	1240.330	1252.582	1251.640	1254.467	1252.582
1.5	1254.467	1259.180	1254.467	1254.467	1239.387	1251.640	1250.697	1254.467	1252.582
2.0	1255.410	1261.065	1255.410	1254.467	1238.445	1250.697	1250.697	1254.467	1253.525
2.5	1257.295	1262.007	1256.352	1254.467	1238.445	1249.755	1249.755	1254.467	1253.525
3.0	1259.180	1263.892	1257.295	1254.467	1237.502	1248.812	1249.755	1254.467	1253.525
3.5	1262.007	1265.777	1257.295	1253.525	1236.560	1247.870	1248.812	1254.467	1254.467
4.0	1264.835	1267.662	1258.237	1253.525	1234.675	1246.927	1247.870	1254.467	1254.467
4.5	1268.605	1269.547	1259.180	1252.582	1233.732	1245.042	1246.927	1255.410	1254.467
5.0	1271.432	1272.375	1260.122	1252.582	1231.847	1244.100	1246.927	1255.410	1255.410
5.5	1275.202	1274.260	1261.065	1251.640	1229.962	1242.215	1246.927	1256.352	1255.410
6.0	1278.030	1276.145	1261.065	1250.697	1228.077	1240.330	1245.985	1256.352	1256.352
6.5	1280.857	1278.972	1262.007	1248.812	1226.192	1238.445	1245.042	1257.295	1257.295
7.0	1283.685	1280.857	1262.950	1247.870	1223.365	1236.560	1244.100	1257.295	1258.237
7.5	1287.455	1283.685	1263.892	1246.927	1221.480	1234.675	1243.157	1258.237	1259.180
8.0	1290.282	1286.512	1263.892	1245.042	1218.652	1231.847	1242.215	1259.180	1261.065
8.5	1292.167	1289.340	1264.835	1244.100	1215.825	1229.962	1241.272	1260.122	1262.950
9.0	1294.995	1291.225	1264.835	1241.272	1212.055	1227.135	1241.272	1260.122	1264.835
9.5	1297.822	1294.052	1265.777	1240.330	1209.227	1224.307	1240.330	1261.065	1265.777
10.0	1301.592	1296.880	1265.777	1237.502	1205.457	1221.480	1239.387	1262.007	1267.662
10.5	1304.420	1299.707	1266.720	1235.617	1201.687	1218.652	1238.445	1262.007	1269.547
11.0	1308.190	1302.535	1266.720	1232.790	1197.917	1215.825	1237.502	1262.950	1270.490
11.5	1311.017	1305.362	1266.720	1230.905	1194.147	1212.997	1236.560	1262.950	1271.432
12.0	1315.730	1308.190	1266.720	1228.077	1189.435	1209.227	1235.617	1263.892	1272.375
12.5	1319.500	1310.075	1267.662	1226.192	1185.665	1206.400	1234.675	1263.892	1273.317
13.0	1323.270	1312.902	1267.662	1223.365	1180.952	1203.572	1232.790	1263.892	1273.317
13.5	1327.040	1314.787	1266.720	1220.537	1176.240	1199.802	1231.847	1264.835	1273.317
14.0	1330.810	1317.615	1267.662	1216.767	1172.470	1196.032	1229.962	1263.892	1273.317
14.5	1334.580	1320.442	1266.720	1213.940	1166.815	1192.262	1228.077	1263.892	1273.317
15.0	1337.407	1323.270	1266.720	1211.112	1162.102	1188.492	1226.192	1262.950	1273.317
15.5	1340.235	1325.155	1266.720	1207.342	1157.390	1184.722	1224.307	1262.950	1272.375
16.0	1343.062	1327.040	1265.777	1203.572	1152.677	1180.010	1222.422	1262.007	1271.432
16.5	1345.890	1329.867	1265.777	1199.802	1147.022	1176.240	1220.537	1260.122	1271.432
17.0	1348.717	1331.752	1264.835	1196.032	1141.367	1171.527	1217.710	1259.180	1270.490
17.5	1351.545	1332.695	1263.892	1192.262	1135.712	1166.815	1214.882	1257.295	1268.605
18.0	1354.372	1334.580	1262.950	1187.550	1130.057	1162.102	1212.055	1255.410	1266.720
18.5	1356.257	1336.465	1262.007	1183.780	1124.402	1157.390	1209.227	1252.582	1263.892
19.0	1359.085	1337.407	1261.065	1180.010	1118.747	1151.735	1205.457	1250.697	1262.007
19.5	1360.027	1339.292	1260.122	1175.297	1112.150	1147.022	1202.630	1247.870	1259.180
20.0	1361.912	1340.235	1258.237	1170.585	1106.495	1142.310	1198.860	1245.042	1255.410
20.5	1363.797	1341.177	1257.295	1165.872	1099.897	1136.655	1195.090	1241.272	1251.640
21.0	1365.682	1343.062	1255.410	1161.160	1093.300	1131.000	1192.262	1237.502	1247.870
21.5	1367.567	1344.005	1253.525	1156.447	1086.702	1126.287	1187.550	1233.732	1244.100
22.0	1368.510	1344.947	1252.582	1151.735	1080.105	1119.690	1183.780	1229.962	1240.330
22.5	1369.452	1345.890	1250.697	1147.022	1073.507	1114.035	1180.010	1226.192	1235.617
23.0	1371.337	1346.832	1248.812	1142.310	1066.910	1109.322	1175.297	1221.480	1230.905
23.5	1372.280	1347.775	1246.927	1136.655	1059.370	1102.725	1171.527	1216.767	1226.192
24.0	1374.165	1347.775	1245.985	1131.942	1052.772	1097.070	1166.815	1212.055	1220.537
24.5	1375.107	1347.775	1243.157	1126.287	1045.232	1091.415	1162.102	1208.285	1215.825
25.0	1376.050	1347.775	1241.272	1121.575	1038.635	1084.817	1157.390	1202.630	1210.170
25.5	1376.992	1346.832	1239.387	1114.977	1031.095	1078.220	1152.677	1196.975	1203.572
26.0	1376.050	1345.890	1236.560	1110.265	1023.555	1071.622	1147.022	1192.262	1197.917
26.5	1376.050	1344.947	1233.732	1104.610	1016.015	1065.967	1142.310	1186.607	1191.320

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CANDELA TABULATION - (Cont.)

27.0	1375.107	1343.062	1230.905	1098.955	1008.475	1059.370	1136.655	1180.010	1183.780
27.5	1374.165	1341.177	1228.077	1093.300	1000.935	1052.772	1131.000	1174.355	1177.182
28.0	1372.280	1338.350	1225.250	1086.702	993.395	1046.175	1125.345	1167.757	1169.642
28.5	1369.452	1336.465	1221.480	1081.047	985.855	1038.635	1119.690	1161.160	1162.102
29.0	1366.625	1333.637	1217.710	1074.450	978.315	1032.037	1114.035	1154.562	1154.562
29.5	1363.797	1330.810	1213.940	1067.852	970.775	1025.440	1107.437	1147.022	1146.080
30.0	1360.970	1327.982	1210.170	1061.255	962.292	1017.900	1100.840	1139.482	1138.540
30.5	1357.200	1324.212	1205.457	1054.657	954.752	1011.302	1094.242	1131.942	1130.057
31.0	1353.430	1320.442	1201.687	1048.060	947.212	1003.762	1087.645	1124.402	1121.575
31.5	1348.717	1315.730	1196.975	1041.462	938.824	997.165	1081.047	1115.920	1113.092
32.0	1344.005	1311.960	1192.262	1034.865	930.813	988.682	1073.507	1108.380	1104.610
32.5	1338.350	1307.247	1187.550	1027.325	922.425	982.085	1066.910	1099.897	1096.127
33.0	1332.695	1302.535	1181.895	1020.727	914.508	974.545	1059.370	1091.415	1087.645
33.5	1327.040	1296.880	1176.240	1013.187	906.119	967.005	1052.772	1082.932	1079.162
34.0	1320.442	1291.225	1170.585	1005.647	898.014	959.465	1044.290	1074.450	1069.737
34.5	1313.845	1284.627	1164.930	998.107	889.531	950.982	1036.750	1065.967	1061.255
35.0	1306.305	1278.030	1159.275	990.567	880.860	943.442	1029.210	1057.485	1051.830
35.5	1299.707	1271.432	1153.620	983.027	872.566	935.243	1021.670	1048.060	1042.405
36.0	1292.167	1265.777	1147.022	975.487	863.990	927.326	1013.187	1038.635	1032.980
36.5	1283.685	1258.237	1140.425	967.947	855.507	919.220	1005.647	1030.152	1022.612
37.0	1276.145	1250.697	1133.827	959.465	847.025	911.303	997.165	1019.785	1012.245
37.5	1267.662	1243.157	1126.287	951.925	838.165	903.292	988.682	1009.417	1001.877
38.0	1259.180	1234.675	1119.690	943.442	829.777	894.904	980.200	999.992	990.567
38.5	1249.755	1226.192	1112.150	935.431	821.483	886.421	972.660	989.625	980.200
39.0	1240.330	1217.710	1104.610	927.231	812.906	878.504	964.177	980.200	969.832
39.5	1230.905	1209.227	1096.127	919.126	804.329	869.927	954.752	969.832	959.465
40.0	1221.480	1199.802	1087.645	910.926	795.658	861.256	946.270	959.465	947.212
40.5	1210.170	1190.377	1080.105	902.444	786.610	852.774	936.939	949.097	936.939
41.0	1200.745	1180.952	1071.622	893.961	778.034	844.009	927.797	938.918	925.629
41.5	1189.435	1171.527	1063.140	885.196	769.363	835.338	918.560	928.457	914.790
42.0	1179.067	1161.160	1054.657	876.619	760.692	826.855	909.795	917.901	904.140
42.5	1167.757	1150.792	1046.175	867.854	751.832	818.278	900.370	907.439	892.830
43.0	1156.447	1140.425	1036.750	859.183	743.255	809.607	890.757	896.317	881.332
43.5	1145.137	1130.057	1027.325	849.664	734.679	800.371	880.672	885.573	869.927
44.0	1133.827	1118.747	1017.900	840.993	725.819	791.417	871.058	874.263	858.712
44.5	1121.575	1107.437	1008.475	831.945	716.677	782.463	861.633	863.895	847.307
45.0	1109.322	1096.127	999.050	822.897	707.912	773.698	851.737	853.057	835.243
45.5	1097.070	1084.817	989.625	813.849	699.712	764.462	842.029	842.029	824.122
46.0	1084.817	1072.565	979.257	804.895	691.135	755.414	831.850	831.002	812.718
46.5	1072.565	1060.312	969.832	795.376	685.669	746.271	822.143	819.409	800.842
47.0	1059.370	1049.002	959.465	785.762	676.809	737.223	812.058	807.722	789.626
47.5	1046.175	1036.750	949.097	776.431	668.232	727.987	801.973	796.507	777.185
48.0	1032.980	1024.497	938.070	767.195	659.467	719.127	792.077	785.197	765.593
48.5	1019.785	1012.245	927.326	757.487	650.419	709.420	781.709	773.981	754.094
49.0	1006.590	999.050	916.675	747.874	641.371	700.654	771.248	762.954	743.350
49.5	994.337	985.855	905.837	738.543	632.417	691.795	760.880	751.549	731.945
50.0	980.200	973.602	894.621	728.647	623.841	684.820	750.418	740.334	720.447
50.5	967.005	960.407	883.688	718.656	614.981	676.526	739.862	728.929	708.854
51.0	952.867	947.212	872.472	709.043	606.216	667.007	729.495	717.525	697.733
51.5	939.861	934.112	860.879	699.335	597.356	657.488	718.845	706.404	689.344
52.0	925.912	920.728	849.381	690.381	588.497	648.063	708.477	695.848	678.977
52.5	912.057	907.533	837.317	682.087	579.732	638.544	697.921	686.423	667.761
53.0	898.014	894.150	825.441	673.510	570.966	628.836	688.685	677.375	656.451
53.5	884.065	880.389	813.377	663.614	561.918	619.222	679.260	665.970	645.141
54.0	869.833	866.440	801.313	653.529	552.776	609.609	669.175	654.472	633.548
54.5	855.978	852.962	789.344	643.256	544.011	599.807	658.148	643.068	621.956

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55.0	841.370	839.202	777.468	633.266	535.246	590.099	647.120	631.852	610.928
55.5	826.761	825.347	765.687	623.181	526.386	580.391	636.282	620.448	599.053
56.0	812.529	811.681	753.057	613.002	517.432	570.684	625.631	609.420	588.120
56.5	798.109	797.261	740.239	602.823	508.573	560.882	614.793	597.922	576.810
57.0	784.254	783.123	727.704	592.455	499.525	551.174	603.860	586.423	565.406
57.5	769.174	769.080	715.357	581.994	490.854	541.278	592.927	575.019	553.813
58.0	754.094	754.283	702.822	571.626	481.806	531.570	581.994	563.898	542.503
58.5	739.674	740.051	691.135	561.447	472.946	521.768	571.438	552.493	531.287
59.0	724.877	725.819	680.579	550.985	463.993	511.777	560.693	541.278	520.260
59.5	710.456	711.682	668.986	540.524	454.850	501.881	549.477	529.873	508.950
60.0	695.942	698.015	656.168	530.062	445.897	491.891	538.450	518.563	497.640
60.5	683.689	685.292	643.445	519.506	437.037	481.900	527.234	507.536	486.424
61.0	671.248	672.285	630.532	509.044	428.178	472.192	516.113	496.697	475.397
61.5	656.357	657.865	617.526	498.582	419.507	462.390	504.991	485.482	464.275
62.0	641.748	643.445	604.331	488.026	410.647	452.777	494.435	474.360	453.719
62.5	627.516	628.742	591.136	477.376	401.693	442.975	483.502	463.144	443.069
63.0	613.096	614.133	578.506	466.820	392.551	432.984	472.569	451.834	432.136
63.5	598.770	599.524	565.406	456.076	383.597	423.182	461.731	440.807	421.297
64.0	584.350	585.198	552.588	445.708	374.738	413.286	450.609	429.968	410.459
64.5	569.647	570.966	539.675	435.246	365.784	403.673	439.676	419.130	399.808
65.0	555.132	556.923	526.575	424.879	357.207	394.059	429.309	408.197	390.101
65.5	540.524	542.409	513.568	414.229	348.631	384.069	418.281	397.358	379.827
66.0	526.292	527.517	500.090	403.767	339.865	374.078	407.537	386.613	369.271
66.5	511.589	513.380	486.424	393.117	331.006	364.465	396.321	375.775	358.056
67.0	497.357	498.865	473.323	382.655	322.335	354.663	385.294	365.030	347.877
67.5	483.314	484.633	460.317	371.910	313.570	345.143	374.361	354.380	337.415
68.0	469.271	470.402	447.122	361.731	304.710	335.436	363.428	343.918	326.859
68.5	455.322	456.170	434.398	351.270	295.756	325.445	352.589	333.174	316.963
69.0	440.713	442.221	421.769	340.902	286.897	315.360	341.656	322.618	306.689
69.5	426.198	427.989	408.668	330.535	278.226	305.464	330.912	311.967	295.945
70.0	411.967	414.134	395.284	320.261	269.366	295.851	320.167	301.317	286.049
70.5	398.018	400.280	382.278	309.894	260.790	286.331	309.423	291.327	276.152
71.0	383.880	386.331	369.271	299.621	252.213	276.718	298.772	281.053	266.162
71.5	370.025	372.193	356.265	289.159	243.542	267.010	288.122	270.686	255.889
72.0	356.171	358.150	343.070	278.603	234.871	257.302	277.283	260.318	246.087
72.5	342.693	344.484	329.969	268.047	225.823	247.500	266.633	249.951	236.379
73.0	329.121	330.817	317.151	257.774	216.963	237.604	255.983	239.866	226.860
73.5	315.549	317.340	304.239	247.595	208.387	228.085	245.427	229.781	217.529
74.0	302.071	304.145	291.892	237.510	199.810	218.943	235.059	219.885	208.104
74.5	289.065	290.950	279.263	227.048	191.233	209.423	224.975	209.989	198.679
75.0	276.152	277.660	266.633	216.963	183.033	200.093	214.890	200.281	189.160
75.5	263.429	264.371	254.192	206.879	174.457	190.668	204.805	190.479	180.112
76.0	251.270	251.365	241.845	196.888	165.974	181.337	194.720	180.866	170.969
76.5	238.735	238.547	229.687	186.992	157.680	172.477	184.636	171.629	162.016
77.0	226.200	225.823	218.094	177.190	149.292	163.429	174.551	162.298	153.345
77.5	213.947	213.570	206.502	167.576	141.186	154.476	164.843	153.345	144.768
78.0	201.978	201.224	194.815	157.774	133.269	145.333	155.230	144.297	136.285
78.5	190.102	189.160	182.939	148.444	125.352	136.568	145.899	135.531	127.803
79.0	178.415	177.284	171.535	139.019	117.341	127.803	136.662	126.578	119.697
79.5	167.388	165.691	160.225	129.876	109.518	119.320	127.709	118.189	111.592
80.0	156.549	154.381	149.480	121.111	101.978	111.215	118.755	109.895	103.769
80.5	145.805	143.354	138.642	112.063	94.438	103.015	109.895	101.790	96.323
81.0	135.060	132.421	128.180	103.392	87.087	95.004	101.507	93.967	88.689
81.5	124.410	121.582	117.907	94.910	79.735	86.898	93.213	86.144	81.432
82.0	113.948	111.026	107.728	86.616	72.572	79.264	85.013	78.604	74.363
82.5	104.146	101.036	97.737	78.510	65.881	71.913	77.002	71.536	67.389

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

83.0	94.344	91.517	88.595	70.970	59.095	64.655	69.556	64.561	60.791
83.5	84.825	81.997	79.453	63.336	52.968	57.681	62.205	57.681	54.288
84.0	75.588	72.667	70.405	56.173	46.936	50.895	55.042	51.083	48.067
84.5	66.823	63.713	61.734	49.293	40.999	44.580	48.256	44.769	42.130
85.0	57.964	55.042	53.251	42.601	35.344	38.548	41.564	38.642	36.380
85.5	49.575	46.936	45.334	36.192	29.971	32.705	35.249	32.799	30.725
86.0	41.658	39.396	37.888	30.160	24.882	27.332	29.312	27.521	25.447
86.5	34.307	32.045	30.820	24.411	20.169	22.054	23.845	22.431	20.735
87.0	27.427	25.259	24.316	19.133	16.022	17.342	18.850	17.625	16.211
87.5	20.923	18.944	18.284	14.420	12.158	13.006	14.137	13.195	11.875
88.0	15.080	13.289	12.912	10.179	8.671	9.236	9.896	9.236	8.200
88.5	9.990	8.482	8.388	6.503	5.749	6.032	6.315	5.938	5.184
89.0	5.843	4.618	4.807	3.770	3.487	3.487	3.487	3.016	2.262
89.5	2.733	2.073	2.073	1.885	1.696	1.696	1.508	1.225	0.754
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
91.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
91.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
93.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
93.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
94.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
94.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
96.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
96.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
98.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
98.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
99.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
99.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
101.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
101.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
103.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
103.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
104.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
104.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
106.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
106.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
108.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
108.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
109.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
109.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

111.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
111.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
112.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
113.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
113.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
114.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
114.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
116.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
116.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
118.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
118.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
119.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
119.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
121.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
121.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
123.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
123.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
124.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
124.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
126.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
126.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
128.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
128.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
129.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
129.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
131.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
131.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
133.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
133.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
134.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
134.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
136.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
136.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
138.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
138.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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CANDELA TABULATION - (Cont.)

139.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
139.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
141.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
141.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
143.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
143.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
144.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
144.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
146.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
146.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
148.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
148.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
149.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
149.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
151.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
151.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
153.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
153.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
154.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
154.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
156.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
156.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
158.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
158.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
159.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
159.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
161.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
161.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
163.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
163.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
164.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
164.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
166.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
166.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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CANDELA TABULATION - (Cont.)

167.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
168.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
168.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
169.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
169.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
171.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
171.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
173.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
173.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
174.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
174.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
176.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
176.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
178.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
178.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
179.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
179.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : MX2D-4-00-L12-835-FA-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	470.90	N.A.	12.70
0-30	1017.17	N.A.	27.50
0-40	1682.5	N.A.	45.50
0-60	2964.91	N.A.	80.20
0-80	3644.11	N.A.	98.50
0-90	3698.33	N.A.	100.00
10-90	3578.75	N.A.	96.80
20-40	1211.61	N.A.	32.80
20-50	1893.49	N.A.	51.20
40-70	1723.8	N.A.	46.60
60-80	679.20	N.A.	18.40
70-80	237.81	N.A.	6.40
80-90	54.22	N.A.	1.50
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	3698.33	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	119.59
10-20	351.31
20-30	546.27
30-40	665.33
40-50	681.88
50-60	600.53
60-70	441.39
70-80	237.81
80-90	54.22
90-100	0.00
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
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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	357	357	357	357	349	349	349	349	333	333	333	319	319	319	306	306	306	300
1	327	313	300	289	319	306	295	284	293	284	275	282	274	267	271	265	259	253
2	297	273	253	236	290	267	249	233	257	241	227	247	234	222	238	227	217	211
3	271	240	215	196	264	235	212	194	226	207	191	218	201	187	210	196	184	178
4	248	212	186	166	241	208	184	165	201	179	163	194	175	160	187	171	158	152
5	228	190	163	143	222	186	161	142	180	158	141	174	154	139	168	151	137	131
6	211	171	144	125	205	168	142	124	162	140	123	157	137	122	153	135	121	115
7	195	155	128	110	190	152	127	110	148	125	109	143	123	108	139	121	107	101
8	182	141	115	98	177	139	115	98	135	113	97	131	111	96	128	109	96	90
9	170	129	105	88	165	128	104	88	124	102	87	121	101	87	118	100	86	81
10	159	119	96	80	155	118	95	80	115	94	79	112	92	79	109	91	78	73

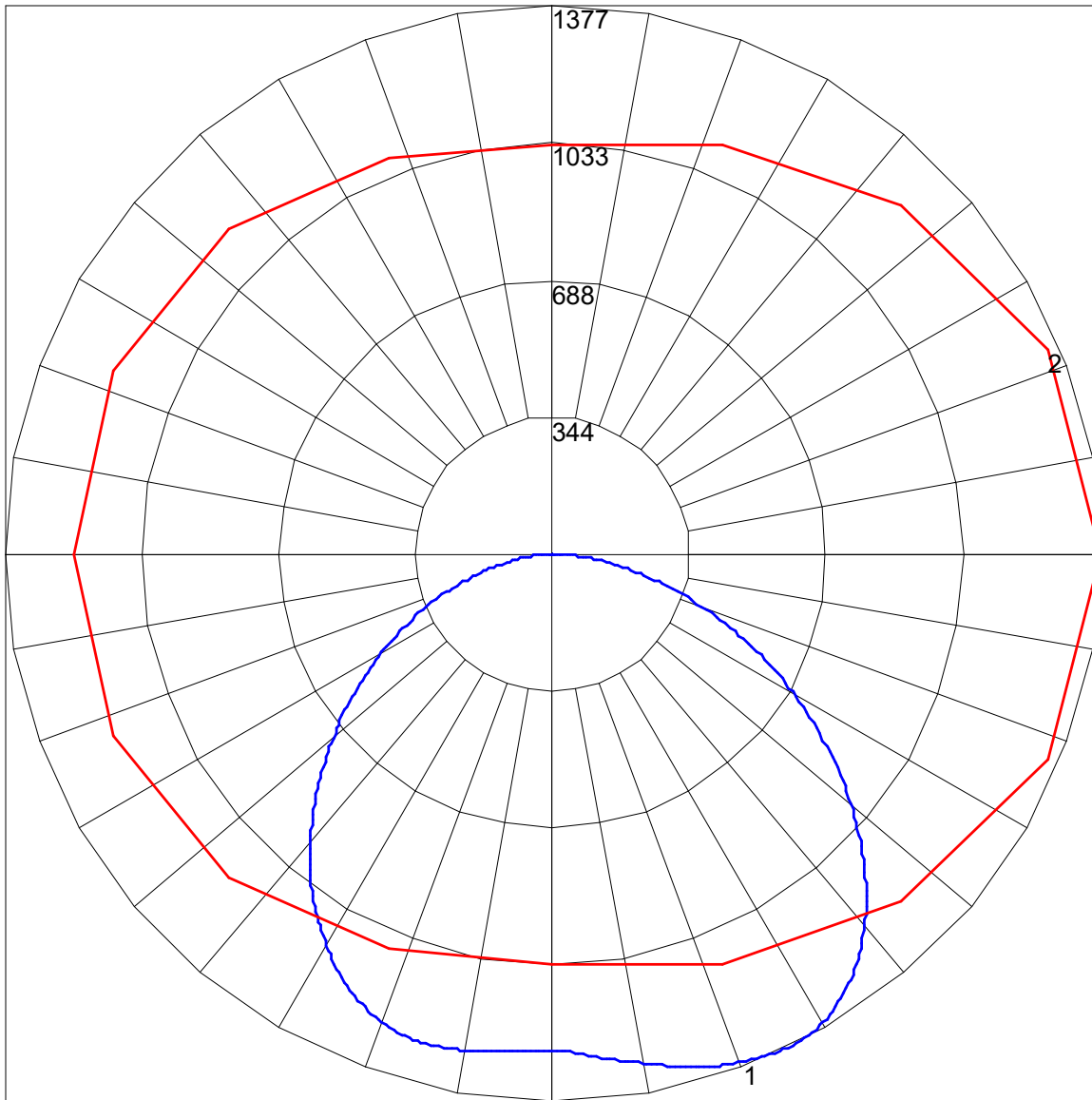
IES INDOOR REPORT
PHOTOMETRIC FILENAME : MX2D-4-00-L12-835-FA-DIM-UNV_.IES

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	20.0	21.7	20.4	22.0	22.3	17.7	19.3	18.0	19.6	19.9
	3H	21.7	23.2	22.1	23.5	23.9	19.3	20.8	19.7	21.1	21.5
	4H	22.3	23.7	22.7	24.0	24.4	19.9	21.2	20.3	21.6	22.0
	6H	22.7	24.0	23.1	24.3	24.7	20.2	21.5	20.6	21.9	22.3
	8H	22.8	24.0	23.2	24.4	24.8	20.3	21.5	20.7	21.9	22.3
	12H	22.9	24.0	23.3	24.4	24.8	20.4	21.5	20.8	21.9	22.3
4H	2H	20.5	21.9	20.9	22.3	22.7	18.6	20.0	19.0	20.3	20.7
	3H	22.5	23.6	22.9	24.0	24.4	20.4	21.6	20.8	22.0	22.4
	4H	23.2	24.2	23.6	24.6	25.1	21.1	22.1	21.5	22.5	23.0
	6H	23.7	24.6	24.1	25.0	25.5	21.5	22.5	22.0	22.9	23.4
	8H	23.8	24.7	24.3	25.1	25.6	21.7	22.5	22.1	23.0	23.4
	12H	23.9	24.7	24.4	25.2	25.6	21.7	22.5	22.2	23.0	23.4
8H	4H	23.4	24.3	23.9	24.7	25.2	21.5	22.3	21.9	22.8	23.2
	6H	24.0	24.7	24.5	25.2	25.7	22.0	22.7	22.5	23.2	23.7
	8H	24.2	24.9	24.7	25.4	25.8	22.2	22.8	22.7	23.3	23.8
	12H	24.4	24.9	24.9	25.4	26.0	22.3	22.9	22.8	23.4	23.9
12H	4H	23.4	24.2	23.9	24.7	25.1	21.5	22.3	22.0	22.7	23.2
	6H	24.0	24.7	24.6	25.1	25.7	22.1	22.7	22.6	23.2	23.7
	8H	24.3	24.9	24.8	25.3	25.9	22.3	22.9	22.8	23.4	23.9

Maximum UGR = 26.0

POLAR GRAPH



Maximum Candela = 1376.992 Located At Horizontal Angle = 0, Vertical Angle = 25.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (25.5) (Through Max. Cd.)