

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX2D-4-00-L12-940-F-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM 13012869.01
[TESTLAB] UL Verification Services Inc.
[ISSUE DATE] 5 AUG 2024
[MANUFAC] H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMCAT] MX2D-4-00-L12-940-F-DIM-UNV
[LUMINAIRE] 2 INCH WIDE, 48 INCH LONG, SUSPENDED LED
[MORE] LUMINAIRE W/FLAT FROSTED LENS
[LAMP] LED
[LAMPCAT] HLMX 90 CRI 4000K CCT LED ARRAYS

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4216
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	105
Total Luminaire Watts	40
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.18
Spacing Criterion (90-270)	1.10
Spacing Criterion (Diagonal)	1.22
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.96 ft
Luminous Width (90-270)	0.17 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	23557	21560	19761
55	20782	18894	17110
65	18271	16434	14880
75	15064	13800	12812
85	10866	11686	11950

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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	1863.892	1863.892	1863.892	1863.892	1863.892
0.5	1861.059	1875.222	1859.643	1859.643	1856.810
1.0	1859.643	1875.222	1859.643	1859.643	1856.810
1.5	1859.643	1873.806	1859.643	1859.643	1856.810
2.0	1859.643	1873.806	1858.226	1859.643	1856.810
2.5	1858.226	1872.390	1858.226	1859.643	1856.810
3.0	1856.810	1872.390	1856.810	1859.643	1855.394
3.5	1855.394	1870.973	1855.394	1858.226	1853.977
4.0	1853.977	1869.557	1853.977	1856.810	1852.561
4.5	1852.561	1868.141	1851.145	1855.394	1851.145
5.0	1849.728	1865.308	1849.728	1853.977	1848.312
5.5	1848.312	1863.892	1846.896	1851.145	1846.896
6.0	1845.479	1861.059	1845.479	1848.312	1844.063
6.5	1842.647	1858.226	1842.647	1844.063	1839.814
7.0	1839.814	1855.394	1839.814	1839.814	1835.565
7.5	1836.981	1852.561	1836.981	1835.565	1831.316
8.0	1834.149	1849.728	1832.732	1829.900	1827.067
8.5	1829.900	1845.479	1829.900	1825.651	1821.402
9.0	1825.651	1842.647	1825.651	1819.985	1815.736
9.5	1822.818	1838.398	1821.402	1814.320	1808.655
10.0	1818.569	1834.149	1815.736	1807.238	1801.573
10.5	1814.320	1829.900	1811.487	1801.573	1794.491
11.0	1810.071	1825.651	1804.406	1794.491	1785.993
11.5	1804.406	1819.985	1798.740	1787.410	1778.912
12.0	1800.157	1815.736	1793.075	1780.328	1770.414
12.5	1794.491	1810.071	1785.993	1771.830	1761.916
13.0	1788.826	1804.406	1778.912	1764.748	1753.418
13.5	1783.161	1798.740	1771.830	1756.251	1746.336
14.0	1777.495	1793.075	1764.748	1747.753	1736.422
14.5	1770.414	1785.993	1756.251	1739.255	1726.508
15.0	1763.332	1778.912	1747.753	1729.340	1718.010
15.5	1757.667	1773.246	1739.255	1719.426	1708.095
16.0	1750.585	1764.748	1730.757	1710.928	1698.181
16.5	1743.504	1757.667	1722.259	1701.014	1688.267
17.0	1736.422	1749.169	1712.344	1689.683	1676.936
17.5	1729.340	1742.087	1702.430	1679.769	1667.022
18.0	1720.842	1733.589	1692.516	1668.438	1655.691
18.5	1713.761	1725.091	1682.601	1658.524	1644.360
19.0	1705.263	1716.593	1672.687	1647.193	1633.030
19.5	1696.765	1706.679	1662.773	1635.862	1621.699
20.0	1688.267	1698.181	1651.442	1624.532	1610.368
20.5	1679.769	1688.267	1640.111	1611.785	1597.621
21.0	1669.854	1678.352	1630.197	1599.038	1584.874
21.5	1661.356	1668.438	1618.866	1586.291	1572.127
22.0	1651.442	1658.524	1607.536	1573.544	1557.964
22.5	1642.944	1648.609	1596.205	1560.797	1543.801
23.0	1633.030	1638.695	1583.458	1546.634	1531.054
23.5	1623.115	1627.364	1572.127	1533.887	1515.474
24.0	1611.785	1617.450	1560.797	1519.723	1501.311
24.5	1601.870	1606.119	1548.050	1505.560	1487.148
25.0	1590.540	1594.789	1535.303	1492.813	1472.984
25.5	1580.625	1582.042	1523.972	1478.650	1458.821
26.0	1567.878	1570.711	1509.809	1463.070	1444.658
26.5	1556.548	1557.964	1497.062	1448.907	1430.494

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27.0	1543.801	1546.634	1484.315	1436.160	1416.189
27.5	1532.470	1533.887	1470.152	1421.996	1401.601
28.0	1519.723	1521.140	1457.405	1406.558	1387.580
28.5	1506.976	1508.393	1443.241	1392.537	1373.275
29.0	1494.229	1494.229	1429.078	1378.373	1359.253
29.5	1478.650	1481.482	1414.631	1363.785	1344.098
30.0	1465.903	1467.319	1400.185	1349.905	1329.227
30.5	1453.156	1453.156	1385.172	1334.750	1314.355
31.0	1438.992	1438.992	1370.017	1320.162	1299.625
31.5	1424.829	1424.829	1354.862	1304.724	1283.762
32.0	1411.091	1410.241	1339.708	1289.145	1268.466
32.5	1397.069	1394.661	1324.270	1273.282	1253.453
33.0	1383.047	1379.648	1308.832	1257.419	1237.307
33.5	1368.742	1364.210	1293.252	1241.273	1222.010
34.0	1354.296	1348.630	1277.106	1225.126	1205.298
34.5	1339.708	1332.909	1261.668	1208.697	1189.152
35.0	1325.544	1317.471	1245.663	1191.984	1172.580
35.5	1310.673	1302.033	1229.517	1175.838	1155.301
36.0	1295.518	1285.887	1213.796	1158.842	1137.880
36.5	1281.496	1270.166	1197.508	1141.846	1119.610
37.0	1266.058	1254.444	1180.795	1124.850	1101.481
37.5	1250.762	1238.723	1164.366	1107.713	1083.493
38.0	1235.890	1222.719	1147.653	1090.575	1065.506
38.5	1220.452	1207.139	1131.224	1072.871	1050.493
39.0	1204.731	1191.418	1115.077	1056.583	1035.763
39.5	1189.010	1175.838	1098.790	1042.845	1018.625
40.0	1173.005	1160.400	1082.360	1027.265	1001.913
40.5	1157.284	1144.820	1066.497	1010.552	985.766
41.0	1141.846	1129.524	1054.034	994.406	970.187
41.5	1125.983	1114.086	1039.020	978.826	955.032
42.0	1110.404	1098.365	1024.999	963.530	940.444
42.5	1094.541	1082.927	1009.561	948.942	926.281
43.0	1079.244	1067.205	994.689	934.637	912.542
43.5	1064.514	1055.025	979.959	920.615	898.945
44.0	1051.626	1041.003	965.513	906.877	885.632
44.5	1039.304	1026.132	951.208	893.280	872.177
45.0	1023.866	1011.544	937.045	879.966	858.863
45.5	1008.853	996.247	923.023	866.653	845.691
46.0	993.839	981.093	909.143	853.481	832.378
46.5	978.968	966.079	895.404	840.168	819.348
47.0	963.955	951.350	881.666	826.996	806.176
47.5	949.083	936.620	867.786	813.541	793.004
48.0	934.495	921.890	853.906	800.227	779.974
48.5	920.049	907.302	839.884	787.055	766.943
49.0	905.602	892.713	825.863	773.883	754.055
49.5	891.155	878.409	811.699	760.853	741.308
50.0	876.709	863.962	797.819	747.823	728.561
50.5	862.262	849.515	783.939	734.934	715.955
51.0	847.816	835.210	770.201	722.187	703.350
51.5	833.086	820.905	756.604	709.299	690.745
52.0	818.639	806.317	743.149	696.552	678.139
52.5	804.051	792.154	730.119	683.805	665.676
53.0	789.746	777.991	717.088	671.199	653.070
53.5	775.441	763.969	704.341	658.594	640.465
54.0	761.136	750.089	691.453	645.989	628.001
54.5	746.831	736.351	678.706	633.383	615.537

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55.0	732.668	722.612	666.100	620.920	603.215
55.5	718.788	709.015	653.495	608.597	591.035
56.0	705.050	695.277	640.890	596.559	578.996
56.5	691.453	681.680	628.284	584.520	567.382
57.0	678.139	668.225	615.537	572.623	555.910
57.5	664.826	655.053	602.932	560.867	544.579
58.0	651.796	642.023	590.327	549.112	533.390
58.5	638.765	628.993	577.863	537.498	522.201
59.0	625.735	616.104	565.683	526.025	511.154
59.5	612.846	603.215	553.361	514.836	500.248
60.0	600.241	590.327	541.180	503.789	489.484
60.5	587.494	577.580	529.283	492.742	478.578
61.0	574.889	564.974	517.527	481.836	467.956
61.5	562.142	552.652	505.772	470.930	457.475
62.0	549.536	540.330	494.158	460.308	447.277
62.5	536.931	528.150	482.686	449.827	436.938
63.0	524.467	515.828	471.355	439.346	426.741
63.5	512.004	503.506	460.166	428.865	416.685
64.0	499.540	491.184	448.977	418.667	406.629
64.5	487.076	478.862	437.930	408.328	396.573
65.0	474.613	466.681	426.882	398.131	386.517
65.5	462.290	454.642	415.976	387.791	376.602
66.0	449.968	442.603	405.071	377.594	367.255
66.5	437.646	430.706	394.165	367.396	357.340
67.0	425.607	418.526	383.259	357.199	347.568
67.5	413.427	406.487	372.353	347.143	337.653
68.0	401.247	394.448	361.589	337.087	328.022
68.5	389.208	382.551	350.684	327.172	318.391
69.0	377.169	370.795	339.919	317.400	308.902
69.5	364.989	359.040	329.155	307.627	299.412
70.0	353.233	347.284	318.674	297.996	290.206
70.5	341.477	335.670	308.194	288.507	281.000
71.0	329.722	323.915	297.854	279.017	271.936
71.5	318.250	312.584	287.515	269.811	263.013
72.0	306.777	301.254	277.318	260.605	254.231
72.5	295.447	290.206	267.403	251.540	245.592
73.0	284.116	279.159	257.631	242.618	236.952
73.5	272.785	268.253	247.858	233.695	228.454
74.0	261.596	257.347	238.227	224.913	220.098
74.5	250.549	246.583	228.879	216.415	211.883
75.0	239.643	236.102	219.531	207.917	203.810
75.5	228.879	225.622	210.325	199.561	195.879
76.0	218.115	215.566	201.119	191.205	187.947
76.5	207.634	205.368	192.196	182.990	180.157
77.0	197.153	195.454	183.273	175.059	172.509
77.5	186.956	185.539	174.775	167.127	164.861
78.0	176.900	175.908	166.277	159.479	157.354
78.5	166.985	166.419	157.921	151.831	149.989
79.0	157.354	157.071	149.848	144.466	142.766
79.5	147.723	148.148	141.775	137.101	135.685
80.0	138.517	139.367	133.702	129.736	128.603
80.5	129.453	130.727	126.053	122.654	121.663
81.0	120.671	122.229	118.547	115.573	114.864
81.5	112.032	114.015	110.899	108.633	108.066
82.0	103.675	105.800	103.675	101.834	101.551
82.5	95.461	97.868	96.311	95.177	94.894

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CANDELA TABULATION - (Cont.)

83.0	87.671	90.079	89.229	88.662	88.521
83.5	79.881	82.572	82.289	82.147	82.147
84.0	72.516	75.349	75.490	75.774	76.057
84.5	65.293	68.267	68.975	69.683	69.967
85.0	58.211	61.327	62.602	63.593	64.018
85.5	51.554	54.670	56.370	57.645	58.353
86.0	45.039	48.155	50.280	51.838	52.546
86.5	38.807	42.065	44.331	46.172	47.164
87.0	32.717	35.975	38.524	40.649	41.782
87.5	26.769	30.168	33.001	35.267	36.400
88.0	20.962	24.503	27.477	29.885	31.301
88.5	15.296	18.837	21.953	24.786	26.344
89.0	9.489	13.030	16.288	18.837	20.395
89.5	3.824	7.082	9.206	10.339	11.331
90.0	0.850	3.258	4.957	6.373	6.940
90.5	0.000	0.000	0.000	0.000	0.000
91.0	0.000	0.000	0.000	0.000	0.000
91.5	0.000	0.000	0.000	0.000	0.000
92.0	0.000	0.000	0.000	0.000	0.000
92.5	0.000	0.000	0.000	0.000	0.000
93.0	0.000	0.000	0.000	0.000	0.000
93.5	0.000	0.000	0.000	0.000	0.000
94.0	0.000	0.000	0.000	0.000	0.000
94.5	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000
95.5	0.000	0.000	0.000	0.000	0.000
96.0	0.000	0.000	0.000	0.000	0.000
96.5	0.000	0.000	0.000	0.000	0.000
97.0	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000
98.0	0.000	0.000	0.000	0.000	0.000
98.5	0.000	0.000	0.000	0.000	0.000
99.0	0.000	0.000	0.000	0.000	0.000
99.5	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000
100.5	0.000	0.000	0.000	0.000	0.000
101.0	0.000	0.000	0.000	0.000	0.000
101.5	0.000	0.000	0.000	0.000	0.000
102.0	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000
103.0	0.000	0.000	0.000	0.000	0.000
103.5	0.000	0.000	0.000	0.000	0.000
104.0	0.000	0.000	0.000	0.000	0.000
104.5	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000
105.5	0.000	0.000	0.000	0.000	0.000
106.0	0.000	0.000	0.000	0.000	0.000
106.5	0.000	0.000	0.000	0.000	0.000
107.0	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000
108.0	0.000	0.000	0.000	0.000	0.000
108.5	0.000	0.000	0.000	0.000	0.000
109.0	0.000	0.000	0.000	0.000	0.000
109.5	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000
110.5	0.000	0.000	0.000	0.000	0.000

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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : MX2D-4-00-L12-940-F-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

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

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : MX2D-4-00-L12-940-F-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	668.03	N.A.	15.80
0-30	1375.17	N.A.	32.60
0-40	2155.82	N.A.	51.10
0-60	3482.75	N.A.	82.60
0-80	4145.06	N.A.	98.30
0-90	4215.51	N.A.	100.00
10-90	4039.66	N.A.	95.80
20-40	1487.79	N.A.	35.30
20-50	2215.11	N.A.	52.50
40-70	1753.64	N.A.	41.60
60-80	662.31	N.A.	15.70
70-80	235.60	N.A.	5.60
80-90	70.45	N.A.	1.70
90-110	0.13	N.A.	0.00
90-120	0.13	N.A.	0.00
90-130	0.13	N.A.	0.00
90-150	0.13	N.A.	0.00
90-180	0.13	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	4215.64	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	175.85
10-20	492.18
20-30	707.14
30-40	780.64
40-50	727.32
50-60	599.61
60-70	426.70
70-80	235.60
80-90	70.45
90-100	0.13
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
PHOTOMETRIC FILENAME : MX2D-4-00-L12-940-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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	86	81	98	90	85	80	87	82	78	84	80	76	81	77	74	72
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56	54
5	78	66	57	51	76	65	57	51	63	55	50	61	54	49	59	53	49	47
6	72	60	51	45	70	59	51	45	57	50	44	55	49	44	54	48	44	42
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	43	39	37
8	63	50	42	36	61	49	41	36	48	41	36	47	40	35	45	40	35	33
9	59	46	38	33	57	45	38	33	44	37	32	43	37	32	42	36	32	30
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28

IES INDOOR REPORT
PHOTOMETRIC FILENAME : MX2D-4-00-L12-940-F-DIM-UNV_.IES

UGR TABLE - CORRECTED

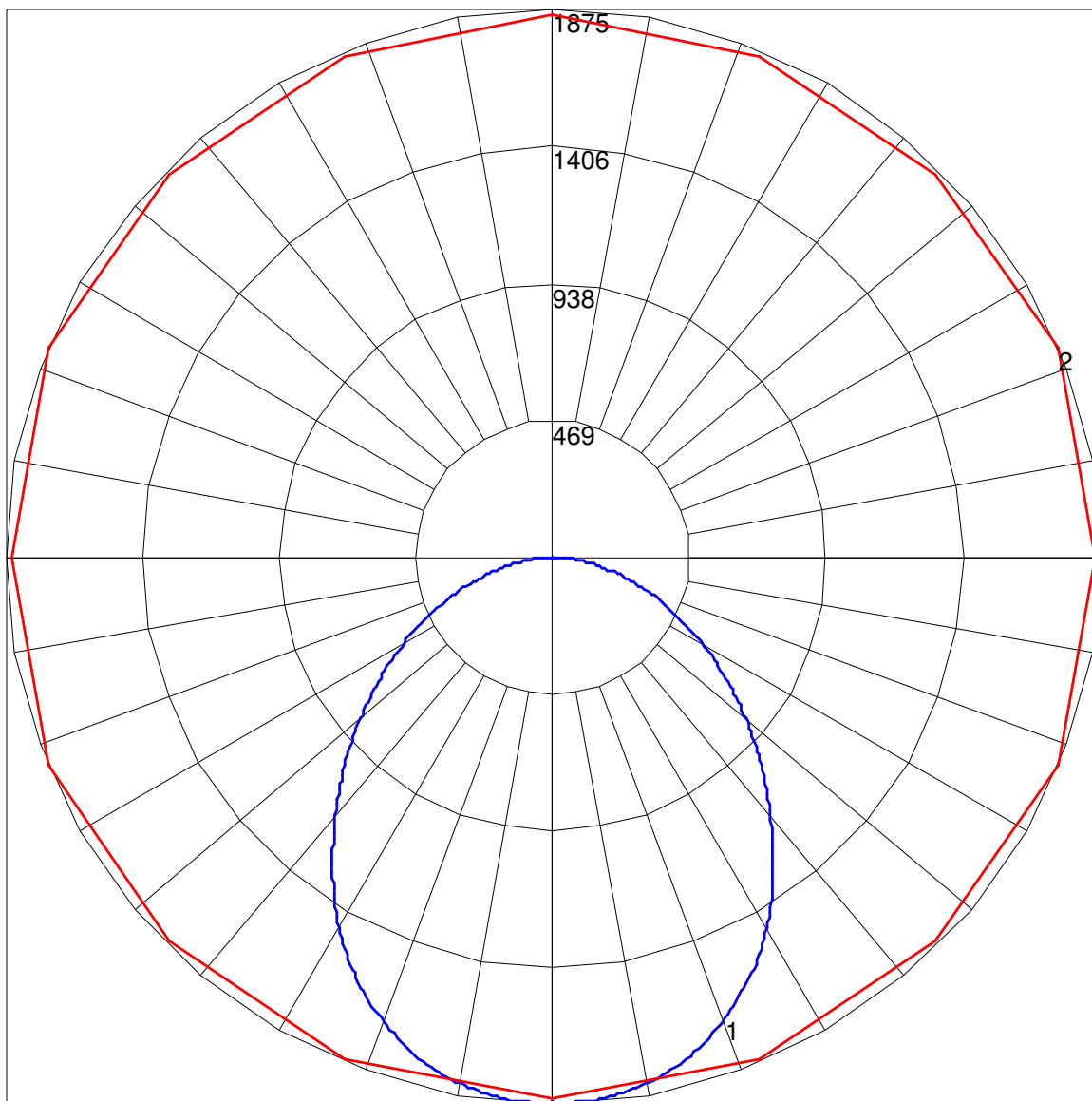
Reflectances

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	22.4	24.0	22.8	24.3	24.6	21.3	22.9	21.7	23.2	23.5
	3H	24.1	25.5	24.5	25.8	26.2	22.9	24.3	23.3	24.7	25.0
	4H	24.7	26.0	25.1	26.4	26.7	23.5	24.8	23.9	25.2	25.6
	6H	25.1	26.3	25.5	26.7	27.1	24.0	25.2	24.4	25.6	26.0
	8H	25.2	26.4	25.6	26.8	27.2	24.2	25.3	24.6	25.7	26.1
	12H	25.3	26.4	25.7	26.8	27.2	24.3	25.4	24.7	25.8	26.2
4H	2H	22.9	24.2	23.3	24.6	24.9	22.0	23.3	22.4	23.7	24.0
	3H	24.8	25.9	25.2	26.3	26.7	23.8	24.9	24.2	25.3	25.7
	4H	25.5	26.5	25.9	26.9	27.3	24.5	25.5	24.9	25.9	26.4
	6H	26.0	26.9	26.5	27.4	27.8	25.1	26.0	25.6	26.4	26.9
	8H	26.2	27.0	26.7	27.5	27.9	25.3	26.1	25.8	26.6	27.1
	12H	26.3	27.1	26.8	27.5	28.0	25.5	26.2	26.0	26.7	27.2
8H	4H	25.7	26.5	26.2	27.0	27.4	24.8	25.7	25.3	26.1	26.6
	6H	26.4	27.1	26.9	27.5	28.0	25.6	26.2	26.1	26.7	27.2
	8H	26.6	27.2	27.1	27.7	28.2	25.9	26.5	26.4	27.0	27.5
	12H	26.8	27.4	27.3	27.9	28.4	26.1	26.7	26.6	27.2	27.7
12H	4H	25.7	26.5	26.2	26.9	27.4	24.9	25.6	25.4	26.1	26.6
	6H	26.4	27.0	26.9	27.5	28.0	25.6	26.3	26.2	26.7	27.3
	8H	26.7	27.3	27.2	27.7	28.3	26.0	26.5	26.5	27.0	27.6

Maximum UGR = 28.4

POLAR GRAPH



Maximum Candela = 1875.222 Located At Horizontal Angle = 22.5, Vertical Angle = .5
1 - Vertical Plane Through Horizontal Angles (22.5 - 202.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (.5) (Through Max. Cd.)