



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : TWO M.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] 7,999  
[TESTLAB] CSA Group  
[ISSUEDATE] 5/7/2015 1:28:44 PM  
[MANUFAC] 3 Form  
[LUMINAIRE] Two M  
[\_AMBIENT] 25.2 deg C  
[\_POWERFACTOR] 0.9938  
[\_ATHD] 8.68%  
[\_CURRENT] 0.77  
[\_VOLTAGE] 120.16  
[\_STABILIZATION] 24:42.3 Stable  
[\_POWER VARIATION] 0.40 %  
[\_LIGHT VARIATION] 0.49 %  
[\_Lumens] 7,843.68

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	7846
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	85
Total Luminaire Watts	91.95
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Point
Luminous Length (0-180)	0.00 ft
Luminous Width (90-270)	0.00 ft
Luminous Height	0.00 ft

**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	0	0	0
55	0	0	0
65	0	0	0
75	0	0	0
85	0	0	0

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**CANDELA TABULATION**

	<b>0</b>	<b>10</b>	<b>20</b>	<b>30</b>	<b>40</b>	<b>50</b>	<b>60</b>	<b>70</b>	<b>80</b>	<b>90</b>
<b>0.0</b>	2426.59	2426.59	2426.59	2426.59	2426.59	2426.59	2426.59	2426.59	2426.59	2426.59
<b>2.5</b>	2415.14	2418.98	2419.45	2419.61	2426.46	2421.95	2418.95	2421.83	2421.07	2418.25
<b>5.0</b>	2407.68	2410.97	2414.63	2415.17	2414.66	2414.97	2414.23	2411.87	2405.03	2405.82
<b>7.5</b>	2396.36	2399.73	2398.80	2400.31	2394.27	2393.50	2393.84	2389.99	2394.44	2394.12
<b>10.0</b>	2380.85	2376.80	2373.17	2374.22	2379.57	2374.64	2370.64	2368.04	2370.30	2366.57
<b>12.5</b>	2348.81	2348.02	2352.83	2353.44	2350.47	2350.51	2348.28	2346.06	2337.65	2337.54
<b>15.0</b>	2324.44	2320.99	2321.12	2320.09	2313.76	2312.41	2315.35	2308.42	2309.74	2307.22
<b>17.5</b>	2280.44	2281.46	2278.11	2278.00	2281.22	2277.82	2270.77	2267.42	2267.35	2263.88
<b>20.0</b>	2244.16	2236.45	2240.75	2240.02	2238.03	2235.22	2230.31	2228.82	2221.79	2219.28
<b>22.5</b>	2191.93	2194.82	2193.57	2191.48	2184.45	2181.73	2183.07	2177.36	2178.31	2174.68
<b>25.0</b>	2140.94	2138.98	2136.50	2135.20	2137.36	2132.49	2124.18	2120.69	2119.02	2115.17
<b>27.5</b>	2084.78	2077.98	2083.61	2083.27	2079.68	2076.92	2070.69	2067.59	2059.99	2057.21
<b>30.0</b>	2018.82	2022.73	2022.08	2022.01	2013.19	2008.33	2009.21	2001.54	2000.94	1998.92
<b>32.5</b>	1957.22	1955.27	1953.69	1952.54	1951.49	1948.64	1939.10	1934.52	1933.67	1928.82
<b>35.0</b>	1888.60	1885.26	1886.42	1888.27	1882.60	1881.09	1874.63	1871.22	1859.99	1858.03
<b>37.5</b>	1812.82	1817.29	1818.47	1815.33	1811.68	1805.84	1802.49	1796.51	1791.13	1789.10
<b>40.0</b>	1740.06	1739.24	1738.75	1736.61	1736.59	1732.02	1723.84	1718.79	1715.11	1709.62
<b>42.5</b>	1663.03	1658.41	1659.70	1663.54	1656.13	1654.07	1648.28	1642.04	1631.21	1629.00
<b>45.0</b>	1576.68	1582.26	1582.42	1579.18	1576.48	1570.19	1566.93	1558.29	1553.64	1550.17
<b>47.5</b>	1497.06	1497.94	1494.90	1494.88	1494.54	1489.01	1480.33	1473.80	1469.13	1465.67
<b>50.0</b>	1413.23	1407.81	1412.53	1411.42	1406.68	1405.68	1397.54	1391.35	1382.22	1376.83
<b>52.5</b>	1321.45	1324.85	1325.73	1325.14	1321.33	1314.42	1308.33	1299.73	1296.53	1293.41
<b>55.0</b>	1234.91	1234.40	1233.90	1233.24	1232.05	1225.09	1217.17	1210.04	1207.59	1203.96
<b>57.5</b>	1144.23	1143.74	1145.29	1142.81	1140.46	1137.16	1129.52	1125.37	1115.91	1110.97
<b>60.0</b>	1051.37	1054.40	1054.29	1054.32	1049.53	1047.08	1039.28	1031.17	1026.18	1020.86
<b>62.5</b>	960.75	958.22	959.85	957.52	956.92	950.68	945.71	939.36	934.74	929.43
<b>65.0</b>	865.72	864.05	865.52	867.99	861.28	859.32	856.22	847.68	839.24	833.89
<b>67.5</b>	771.84	772.91	773.94	773.40	770.43	765.43	760.35	754.05	748.15	742.86
<b>70.0</b>	678.47	677.45	677.18	677.66	676.29	671.50	664.76	661.56	651.74	649.22
<b>72.5</b>	581.57	580.91	584.76	585.28	582.39	580.35	573.36	562.75	556.28	554.92
<b>75.0</b>	487.17	484.45	487.38	485.38	487.23	483.25	475.71	471.32	467.51	464.41
<b>77.5</b>	397.04	394.00	395.55	399.14	396.57	393.39	386.60	380.60	375.56	372.25
<b>80.0</b>	304.37	303.23	306.08	308.66	306.54	301.87	297.49	291.05	284.79	282.54
<b>82.5</b>	215.94	215.88	217.86	218.73	217.59	215.12	208.37	203.37	197.59	196.46
<b>85.0</b>	131.80	132.58	133.99	135.38	134.88	132.21	129.97	123.94	119.40	116.54
<b>87.5</b>	66.54	66.71	70.98	73.10	74.67	72.16	71.85	66.40	62.14	58.47
<b>90.0</b>	46.24	49.34	53.86	57.42	59.26	59.66	57.70	54.34	50.84	49.42
<b>92.5</b>	50.08	53.28	57.85	61.56	63.49	63.82	62.00	59.16	55.28	54.12
<b>95.0</b>	57.85	60.64	65.45	68.17	69.95	70.82	69.62	66.93	63.13	62.32
<b>97.5</b>	67.33	69.62	74.07	76.85	77.47	77.43	75.96	72.96	69.43	68.23
<b>100.0</b>	76.62	79.44	82.38	84.79	87.44	85.28	82.34	78.92	75.66	74.83
<b>102.5</b>	87.03	89.50	92.55	91.12	92.50	94.03	89.81	84.74	81.61	80.85
<b>105.0</b>	96.84	99.46	102.52	98.82	96.73	95.50	96.01	93.92	90.04	88.37
<b>107.5</b>	106.88	109.41	111.99	113.27	102.59	99.57	97.27	95.84	95.15	95.24
<b>110.0</b>	117.04	118.71	120.62	122.33	115.00	103.25	100.91	99.53	98.26	97.95
<b>112.5</b>	126.25	127.38	129.16	129.43	128.29	113.42	104.70	103.68	102.79	102.40
<b>115.0</b>	134.67	135.21	135.32	135.01	132.64	126.90	114.32	108.25	106.99	106.91
<b>117.5</b>	141.40	140.65	140.38	139.54	137.22	133.15	126.21	119.63	114.77	112.61
<b>120.0</b>	145.76	144.96	145.12	144.24	141.46	137.07	133.88	130.24	124.54	119.87
<b>122.5</b>	147.99	149.60	148.81	147.78	145.53	140.28	138.03	134.44	128.95	128.64
<b>125.0</b>	152.89	153.82	153.48	151.62	148.58	144.19	142.12	137.10	133.04	134.58
<b>127.5</b>	157.39	158.86	157.96	155.86	151.56	148.20	146.06	139.48	138.47	140.49
<b>130.0</b>	162.48	162.87	161.60	158.94	155.42	152.07	148.90	143.69	142.69	145.59
<b>132.5</b>	166.30	166.85	165.41	162.23	158.49	155.90	152.58	148.43	147.47	150.36

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<b>135.0</b>	169.76	170.91	168.83	166.26	162.01	159.69	156.23	152.50	152.01	155.05
<b>137.5</b>	173.61	174.08	173.14	171.09	166.52	162.42	159.63	156.91	155.58	161.34
<b>140.0</b>	178.38	179.44	180.04	177.65	171.50	166.92	164.07	160.63	159.92	167.46
<b>142.5</b>	182.40	186.73	187.58	183.63	178.99	174.59	168.16	164.71	165.14	177.35
<b>145.0</b>	190.56	195.76	195.44	190.00	187.81	184.53	175.79	170.34	174.95	190.19
<b>147.5</b>	200.41	205.02	201.74	198.12	196.92	194.83	186.58	181.17	189.34	203.03
<b>150.0</b>	211.51	211.94	208.24	206.32	206.78	202.24	198.21	197.12	205.93	214.38
<b>152.5</b>	220.65	218.42	216.29	215.31	211.89	207.72	207.51	212.95	218.91	224.93
<b>155.0</b>	225.64	225.22	223.02	220.34	217.23	214.65	214.83	221.91	225.90	230.93
<b>157.5</b>	230.30	228.91	227.20	224.54	221.79	219.87	221.79	228.71	229.71	236.58
<b>160.0</b>	233.62	232.98	231.57	228.96	225.44	225.27	228.80	231.90	233.73	240.38
<b>162.5</b>	235.84	236.38	234.12	231.76	229.99	230.23	233.21	235.18	237.75	244.03
<b>165.0</b>	238.88	238.36	237.39	235.16	233.11	233.85	237.53	237.82	240.20	247.80
<b>167.5</b>	240.61	241.10	239.91	238.03	236.13	238.09	240.96	239.26	243.80	250.20
<b>170.0</b>	242.21	242.27	241.21	239.61	239.82	240.60	242.79	242.28	246.09	252.70
<b>172.5</b>	243.88	243.49	243.21	241.76	241.59	242.71	245.13	243.89	248.55	254.56
<b>175.0</b>	244.02	244.92	243.93	243.10	244.10	245.21	245.70	245.06	250.92	255.07
<b>177.5</b>	245.32	245.17	244.53	244.60	245.60	246.20	246.91	246.99	252.14	257.12
<b>180.0</b>	247.47	247.47	247.47	247.47	247.47	247.47	247.47	247.47	247.47	247.47

**Vert.  
Angles**

**Horizontal Angles**

	<b>100</b>	<b>110</b>	<b>120</b>	<b>130</b>	<b>140</b>	<b>150</b>	<b>160</b>	<b>170</b>	<b>180</b>	<b>190</b>
<b>0.0</b>	2426.59	2426.59	2426.59	2426.59	2426.59	2426.59	2426.59	2426.59	2426.59	2426.59
<b>2.5</b>	2416.12	2416.60	2422.64	2420.85	2417.14	2421.45	2414.28	2414.64	2419.88	2419.73
<b>5.0</b>	2409.69	2409.89	2404.30	2409.87	2405.26	2404.13	2407.77	2402.81	2407.81	2411.16
<b>7.5</b>	2392.30	2392.27	2391.69	2387.17	2392.53	2387.53	2388.87	2391.22	2399.86	2402.68
<b>10.0</b>	2364.65	2364.06	2369.10	2368.22	2364.01	2369.64	2361.85	2362.75	2376.20	2377.80
<b>12.5</b>	2340.52	2340.92	2335.47	2340.41	2335.76	2334.16	2339.03	2335.10	2349.08	2352.77
<b>15.0</b>	2304.35	2303.81	2305.69	2300.17	2305.46	2300.48	2302.41	2304.53	2322.59	2326.03
<b>17.5</b>	2261.19	2260.85	2266.47	2265.38	2260.45	2264.80	2258.02	2258.41	2281.81	2283.63
<b>20.0</b>	2221.49	2222.17	2216.93	2221.48	2218.60	2215.84	2220.95	2216.65	2238.23	2243.50
<b>22.5</b>	2172.39	2170.49	2171.95	2167.10	2172.87	2168.49	2168.41	2171.94	2196.69	2200.04
<b>25.0</b>	2112.45	2112.45	2118.90	2117.97	2111.84	2117.80	2111.56	2111.56	2140.94	2144.45
<b>27.5</b>	2058.78	2058.79	2054.17	2060.73	2055.65	2053.19	2056.57	2053.97	2084.19	2090.94
<b>30.0</b>	1993.78	1994.77	1995.63	1992.30	1997.49	1994.67	1995.76	1994.76	2028.06	2031.69
<b>32.5</b>	1925.27	1927.85	1930.14	1930.65	1926.05	1931.64	1926.15	1924.51	1959.98	1961.35
<b>35.0</b>	1861.79	1860.55	1858.71	1860.53	1859.13	1856.56	1856.88	1859.22	1889.67	1898.10
<b>37.5</b>	1784.41	1785.17	1788.97	1785.01	1788.04	1785.10	1788.84	1787.10	1823.13	1828.52
<b>40.0</b>	1707.26	1707.31	1711.75	1713.41	1706.90	1710.22	1707.07	1707.04	1744.12	1749.80
<b>42.5</b>	1634.60	1633.49	1629.23	1632.75	1632.07	1628.91	1630.86	1630.84	1666.71	1672.78
<b>45.0</b>	1546.71	1550.11	1552.27	1548.22	1552.69	1549.66	1550.95	1551.37	1590.40	1594.56
<b>47.5</b>	1461.58	1464.58	1467.35	1468.97	1466.14	1469.02	1464.46	1463.58	1504.03	1510.22
<b>50.0</b>	1379.90	1381.38	1379.21	1383.21	1383.96	1380.80	1381.77	1379.73	1421.13	1428.78
<b>52.5</b>	1289.19	1291.88	1296.20	1294.43	1298.48	1295.13	1295.01	1293.99	1335.15	1342.42
<b>55.0</b>	1201.01	1201.70	1205.69	1208.91	1206.22	1208.74	1205.21	1204.31	1245.92	1250.41
<b>57.5</b>	1114.36	1115.93	1115.31	1117.79	1117.87	1114.99	1114.72	1116.01	1154.51	1165.38
<b>60.0</b>	1020.86	1022.43	1027.40	1026.50	1026.18	1024.37	1028.27	1027.04	1066.19	1073.36
<b>62.5</b>	928.57	931.02	935.42	938.50	933.83	936.21	934.10	932.97	972.23	980.75
<b>65.0</b>	836.99	839.99	841.66	844.11	845.31	842.83	845.50	842.73	879.33	888.05
<b>67.5</b>	742.77	744.27	749.84	749.46	752.31	750.20	751.89	750.43	788.23	794.30
<b>70.0</b>	647.85	651.80	656.13	657.65	656.90	660.09	658.38	653.99	695.56	700.26
<b>72.5</b>	556.61	556.75	563.49	564.97	566.60	562.83	565.58	561.60	601.98	607.73
<b>75.0</b>	459.60	467.82	471.47	470.62	474.51	471.01	469.76	467.69	506.04	509.27
<b>77.5</b>	372.89	376.59	380.60	381.62	381.69	385.19	383.02	379.53	415.74	421.71
<b>80.0</b>	284.98	287.03	292.70	292.32	294.98	291.03	294.48	291.61	323.02	333.04

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82.5	196.80	199.54	205.22	206.99	207.24	205.46	204.49	205.31	235.77	243.47
85.0	119.00	122.43	124.43	129.41	127.44	128.24	126.34	124.50	151.74	156.03
87.5	63.36	66.95	68.09	71.07	70.05	70.00	67.13	64.78	81.26	86.33
90.0	51.96	56.08	59.01	60.11	59.38	56.85	52.42	48.06	47.48	50.19
92.5	57.25	60.74	63.32	64.65	64.09	61.20	57.11	52.70	48.79	51.81
95.0	64.87	68.70	70.97	71.14	69.75	67.41	64.11	60.34	56.00	58.29
97.5	71.22	74.69	76.91	76.90	75.90	75.20	73.32	69.30	64.33	66.99
100.0	77.29	80.69	82.60	82.99	83.59	82.66	79.20	77.89	73.59	76.08
102.5	82.70	85.89	88.37	90.60	89.95	87.18	88.79	86.62	82.12	83.95
105.0	90.47	93.76	95.50	94.33	92.73	93.72	99.45	96.52	91.79	93.49
107.5	96.65	98.54	97.18	95.71	96.94	107.17	107.96	105.25	101.58	102.99
110.0	99.53	101.14	100.84	99.37	105.25	117.45	116.32	114.17	110.43	111.96
112.5	103.92	105.38	104.67	106.04	119.00	123.54	123.49	122.55	120.16	120.85
115.0	107.60	109.04	111.62	119.07	127.38	129.44	129.57	128.76	128.40	128.14
117.5	113.59	117.62	123.10	130.48	133.77	135.08	134.77	134.27	135.23	135.71
120.0	123.01	128.57	134.35	136.87	140.35	141.04	140.00	137.08	136.88	140.17
122.5	132.43	137.27	141.21	144.22	145.75	146.86	143.16	139.39	139.75	140.50
125.0	139.18	143.57	146.85	150.24	151.68	150.50	146.80	145.33	145.40	144.34
127.5	144.52	149.08	153.67	155.94	156.88	154.39	150.97	150.59	151.12	149.55
130.0	150.07	154.73	159.19	161.12	161.02	158.91	155.84	155.93	156.14	154.77
132.5	155.54	160.55	164.74	164.96	165.56	162.68	161.50	161.13	161.07	160.35
135.0	160.47	166.72	170.80	169.94	169.29	166.73	165.63	165.49	166.16	165.11
137.5	167.35	175.59	177.43	176.23	174.04	171.62	170.11	170.40	172.71	170.25
140.0	177.39	185.43	185.27	183.92	181.52	176.58	174.31	175.43	181.08	175.44
142.5	188.58	193.15	192.56	194.40	190.69	182.30	178.24	182.76	191.05	182.20
145.0	199.15	200.23	201.11	203.37	200.01	190.10	186.34	194.01	199.19	191.95
147.5	207.78	209.30	211.44	210.58	204.96	198.65	197.97	206.12	208.25	201.53
150.0	218.09	218.82	219.58	214.93	208.24	206.74	211.31	216.32	215.00	212.45
152.5	229.08	227.98	224.09	217.33	213.07	213.55	220.88	222.31	220.06	220.40
155.0	234.37	231.83	227.60	221.15	217.83	220.31	225.83	225.88	225.02	223.90
157.5	238.35	235.36	229.42	224.24	223.43	227.17	229.69	229.96	228.30	228.10
160.0	242.40	239.09	232.18	227.28	228.48	231.60	233.00	233.26	231.90	230.91
162.5	244.69	240.34	233.92	230.72	232.17	235.60	234.97	235.68	235.00	233.72
165.0	247.87	242.43	235.22	234.16	236.16	238.27	237.64	238.20	237.42	236.91
167.5	250.07	243.96	238.42	237.60	238.36	239.68	239.56	240.94	240.04	238.37
170.0	251.78	244.56	240.21	241.04	240.57	241.53	241.11	241.64	241.74	240.91
172.5	253.34	246.13	242.88	242.83	243.29	243.04	243.02	243.73	243.15	243.00
175.0	253.47	246.51	245.05	244.52	244.26	243.39	243.31	244.72	244.66	243.86
177.5	254.48	247.20	246.75	246.04	245.64	244.85	244.81	245.23	244.85	245.12
180.0	247.47	247.47	247.47	247.47	247.47	247.47	247.47	247.47	247.47	247.47

**Vert.  
Angles**

**Horizontal Angles**

	<u>200</u>	<u>210</u>	<u>220</u>	<u>230</u>	<u>240</u>	<u>250</u>	<u>260</u>	<u>270</u>	<u>280</u>	<u>290</u>
0.0	2426.59	2426.59	2426.59	2426.59	2426.59	2426.59	2426.59	2426.59	2426.59	2426.59
2.5	2425.10	2426.10	2425.38	2429.47	2429.14	2427.99	2421.62	2423.03	2427.59	2428.85
5.0	2412.27	2413.59	2421.04	2416.83	2414.56	2420.26	2421.01	2418.24	2416.38	2417.85
7.5	2404.39	2405.70	2402.95	2402.91	2406.41	2404.75	2409.51	2412.07	2411.06	2411.99
10.0	2384.66	2385.94	2386.99	2390.28	2393.28	2392.85	2387.20	2389.23	2394.71	2396.41
12.5	2354.91	2356.88	2365.62	2364.73	2362.60	2366.64	2369.13	2367.49	2366.31	2368.66
15.0	2328.40	2331.93	2329.81	2330.80	2336.63	2334.52	2339.29	2342.98	2342.62	2343.50
17.5	2289.79	2293.82	2295.80	2300.82	2302.54	2304.62	2300.36	2303.39	2308.25	2311.50
20.0	2245.20	2250.44	2258.27	2260.78	2261.54	2262.27	2265.68	2265.74	2263.41	2267.01
22.5	2204.31	2208.61	2207.25	2211.52	2213.37	2214.73	2220.03	2223.54	2224.27	2224.98
25.0	2151.21	2155.79	2160.21	2163.41	2168.28	2170.39	2165.82	2169.44	2174.56	2177.96
27.5	2092.32	2097.72	2107.69	2111.20	2109.65	2112.79	2113.55	2116.56	2114.98	2118.29

**IES INDOOR REPORT**  
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**CANDELA TABULATION - (Cont.)**

30.0	2038.32	2042.35	2043.03	2048.26	2049.03	2052.77	2056.81	2060.76	2060.21	2061.58
32.5	1971.06	1978.45	1980.87	1983.73	1991.02	1992.45	1989.56	1991.23	1997.95	2001.26
35.0	1902.39	1907.64	1916.39	1920.83	1920.47	1921.72	1923.13	1926.45	1927.51	1932.29
37.5	1836.45	1840.62	1842.60	1846.79	1849.04	1852.19	1856.12	1859.26	1860.81	1865.19
40.0	1757.41	1765.00	1771.57	1771.55	1779.16	1782.30	1779.97	1783.92	1788.50	1789.98
42.5	1677.87	1685.04	1695.44	1698.18	1699.41	1702.42	1703.34	1704.28	1707.75	1711.31
45.0	1602.00	1610.45	1611.83	1620.76	1618.88	1620.64	1626.07	1628.02	1629.53	1634.94
47.5	1518.58	1524.00	1533.97	1535.45	1541.26	1541.37	1537.41	1543.05	1549.09	1550.60
50.0	1431.70	1438.63	1448.56	1454.21	1455.47	1455.17	1457.77	1456.89	1459.84	1464.58
52.5	1348.84	1357.45	1360.47	1366.84	1369.11	1369.11	1371.18	1375.63	1377.13	1381.43
55.0	1260.48	1268.14	1273.30	1276.98	1282.65	1281.79	1280.03	1281.70	1287.37	1291.58
57.5	1170.37	1178.43	1184.54	1187.50	1189.81	1190.65	1191.17	1190.91	1194.57	1200.42
60.0	1078.42	1088.95	1092.57	1097.46	1099.13	1098.56	1100.50	1102.81	1104.59	1110.55
62.5	990.23	995.96	1003.59	1002.97	1008.58	1008.19	1005.72	1008.98	1012.71	1019.42
65.0	892.74	901.98	911.38	912.29	912.50	914.60	915.30	915.33	918.23	923.69
67.5	801.14	810.19	811.96	820.53	817.83	819.10	820.83	821.90	825.22	830.56
70.0	709.39	715.97	723.59	726.87	727.88	728.26	721.99	726.01	731.35	733.84
72.5	613.36	621.29	628.33	633.81	634.04	634.28	631.75	630.45	633.68	638.45
75.0	509.66	527.13	535.45	525.63	540.64	530.88	528.12	530.14	537.24	547.01
77.5	429.59	436.06	442.79	445.42	448.57	446.81	442.92	442.49	446.57	450.66
80.0	339.00	345.78	351.03	352.80	354.32	354.30	351.69	351.05	355.06	359.30
82.5	251.56	257.48	261.28	264.80	266.16	263.21	262.08	261.63	265.80	268.05
85.0	165.92	171.60	176.43	178.17	181.72	179.46	177.14	176.60	178.50	183.47
87.5	92.02	98.74	103.26	105.30	104.91	104.23	102.26	102.02	101.91	107.20
90.0	56.03	60.02	63.46	63.28	63.25	58.80	54.92	53.92	57.01	59.80
92.5	56.26	60.39	62.78	62.75	61.53	58.47	54.35	52.55	54.73	58.15
95.0	62.43	66.43	68.82	68.94	67.57	64.48	60.66	58.71	60.82	64.66
97.5	71.44	72.96	74.61	75.18	75.15	72.58	68.47	66.46	68.84	71.81
100.0	78.16	82.58	81.29	81.27	80.42	77.92	74.26	72.63	74.56	77.73
102.5	86.04	86.45	91.47	88.05	86.34	83.68	80.13	78.88	80.59	83.51
105.0	96.59	92.39	92.98	95.97	93.60	90.75	86.78	84.89	86.29	89.16
107.5	105.75	102.38	97.26	96.45	100.17	99.18	95.80	93.94	95.50	98.16
110.0	115.08	115.22	102.15	99.80	106.74	101.07	100.06	99.99	100.43	101.22
112.5	122.13	122.24	114.03	103.89	113.31	105.06	103.34	102.52	102.85	104.38
115.0	129.44	128.13	124.91	114.08	119.88	108.89	107.69	107.00	107.34	108.65
117.5	135.41	134.47	132.24	126.93	126.45	114.53	112.07	111.13	111.47	113.11
120.0	141.19	141.86	138.22	135.65	133.02	124.57	120.41	118.15	120.71	124.24
122.5	145.84	147.66	145.66	142.13	139.59	135.70	129.81	126.17	131.17	135.87
125.0	147.62	151.81	152.02	149.09	146.16	142.54	138.00	133.97	136.24	141.60
127.5	150.92	155.76	156.66	155.67	152.73	148.06	143.64	139.85	138.82	143.74
130.0	155.00	159.29	161.22	161.59	159.29	154.35	148.94	144.84	143.16	145.69
132.5	160.36	163.44	165.47	167.42	165.86	160.29	154.98	150.71	147.81	148.74
135.0	166.15	167.78	170.09	172.47	172.43	167.87	160.57	155.76	152.68	153.37
137.5	170.19	171.54	175.16	178.73	179.00	176.76	168.18	160.88	157.36	157.58
140.0	174.93	177.36	180.60	185.34	185.57	184.67	177.07	167.78	161.63	162.14
142.5	180.83	182.09	188.90	191.49	192.14	193.59	186.90	175.43	166.82	166.30
145.0	186.36	189.43	199.14	199.96	198.71	201.03	196.90	185.67	172.22	171.41
147.5	195.93	197.90	203.73	206.95	206.71	206.89	205.15	195.77	181.22	177.94
150.0	206.36	204.71	208.12	214.08	214.49	215.93	213.76	204.93	193.38	187.20
152.5	214.41	210.38	212.17	217.62	223.34	224.03	224.27	218.17	207.59	199.16
155.0	222.78	216.10	216.50	219.92	226.78	231.28	232.42	227.96	221.13	209.84
157.5	227.90	221.91	221.49	223.63	228.98	234.82	237.36	233.42	228.08	217.37
160.0	231.84	228.10	225.31	227.03	231.88	237.05	240.98	238.28	232.92	226.03
162.5	234.94	232.37	229.78	229.90	233.62	239.97	243.55	242.34	236.40	231.75
165.0	236.77	235.97	234.04	233.89	235.36	241.50	247.24	245.68	239.55	236.34
167.5	238.88	239.84	237.06	236.59	237.81	243.07	249.44	249.99	243.39	239.99

**IES INDOOR REPORT**  
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**CANDELA TABULATION - (Cont.)**

<b>170.0</b>	240.70	241.33	240.00	239.55	239.05	244.88	251.55	252.24	245.75	241.63
<b>172.5</b>	242.68	242.96	241.64	242.45	241.62	245.07	253.15	254.29	248.28	243.88
<b>175.0</b>	243.59	244.08	243.05	243.65	243.61	246.25	252.91	255.77	250.62	245.34
<b>177.5</b>	244.00	244.12	245.29	246.00	244.88	246.69	253.84	256.17	251.72	245.94
<b>180.0</b>	247.47	247.47	247.47	247.47	247.47	247.47	247.47	247.47	247.47	247.47

**Vert. Horizontal Angles**  
**Angles**

	<b>300</b>	<b>310</b>	<b>320</b>	<b>330</b>	<b>340</b>	<b>350</b>	<b>360</b>
<b>0.0</b>	2426.59	2426.59	2426.59	2426.59	2426.59	2426.59	2426.59
<b>2.5</b>	2424.05	2429.14	2424.69	2423.03	2426.09	2420.13	2415.14
<b>5.0</b>	2423.89	2421.99	2418.68	2422.38	2414.95	2415.58	2407.68
<b>7.5</b>	2411.29	2407.24	2413.51	2408.26	2408.12	2408.92	2396.36
<b>10.0</b>	2391.62	2396.92	2391.78	2391.15	2394.47	2386.93	2380.85
<b>12.5</b>	2373.92	2372.63	2370.20	2366.54	2365.80	2365.16	2348.81
<b>15.0</b>	2345.95	2340.49	2346.20	2340.39	2336.55	2340.70	2324.44
<b>17.5</b>	2307.48	2311.98	2307.09	2309.88	2307.33	2300.44	2280.44
<b>20.0</b>	2272.66	2270.92	2269.16	2264.87	2263.86	2261.79	2244.16
<b>22.5</b>	2229.03	2225.30	2229.08	2223.88	2219.65	2220.65	2191.93
<b>25.0</b>	2175.38	2181.02	2175.82	2177.02	2174.05	2165.78	2140.94
<b>27.5</b>	2125.18	2122.87	2122.74	2117.84	2117.22	2112.78	2084.78
<b>30.0</b>	2065.87	2063.19	2067.12	2062.88	2056.09	2055.78	2018.82
<b>32.5</b>	1998.46	2005.85	2000.01	2001.68	1997.67	1985.23	1957.22
<b>35.0</b>	1939.40	1937.04	1937.52	1930.74	1926.36	1924.00	1888.60
<b>37.5</b>	1867.28	1866.07	1869.29	1864.43	1856.49	1856.94	1812.82
<b>40.0</b>	1790.47	1796.52	1791.47	1790.86	1788.82	1778.68	1740.06
<b>42.5</b>	1718.88	1716.41	1715.78	1710.25	1706.07	1701.75	1663.03
<b>45.0</b>	1637.40	1635.42	1639.95	1633.39	1627.55	1623.94	1576.68
<b>47.5</b>	1553.71	1557.96	1553.35	1551.91	1548.07	1537.83	1497.06
<b>50.0</b>	1471.66	1472.77	1469.31	1464.50	1461.55	1455.46	1413.23
<b>52.5</b>	1384.22	1383.11	1386.72	1381.38	1374.12	1368.54	1321.45
<b>55.0</b>	1293.48	1298.60	1293.10	1294.22	1286.80	1275.60	1234.91
<b>57.5</b>	1207.47	1207.79	1204.93	1200.81	1192.44	1188.38	1144.23
<b>60.0</b>	1113.44	1114.17	1112.87	1110.40	1100.64	1098.05	1051.37
<b>62.5</b>	1019.03	1022.89	1018.28	1017.08	1010.77	1001.60	960.75
<b>65.0</b>	928.05	927.33	927.01	921.04	915.11	909.66	865.72
<b>67.5</b>	832.28	832.90	833.31	827.33	821.49	814.52	771.84
<b>70.0</b>	737.91	738.98	736.01	733.09	727.02	716.64	678.47
<b>72.5</b>	642.20	642.66	640.02	635.38	631.45	624.73	581.57
<b>75.0</b>	543.90	547.39	549.77	544.32	536.11	528.99	487.17
<b>77.5</b>	453.15	454.09	451.78	447.71	440.90	433.20	397.04
<b>80.0</b>	362.58	361.72	360.10	354.65	346.71	340.98	304.37
<b>82.5</b>	272.13	270.99	267.99	264.10	257.13	250.50	215.94
<b>85.0</b>	185.44	184.37	182.08	176.11	171.23	164.76	131.80
<b>87.5</b>	109.00	108.69	106.70	102.46	95.79	88.54	66.54
<b>90.0</b>	62.34	62.70	62.53	60.29	56.38	50.71	46.24
<b>92.5</b>	61.09	62.24	61.45	59.07	55.15	50.50	50.08
<b>95.0</b>	67.45	68.29	67.56	65.11	61.59	57.04	57.85
<b>97.5</b>	73.96	74.86	74.05	71.82	70.08	65.80	67.33
<b>100.0</b>	80.79	81.96	80.28	81.32	77.75	75.12	76.62
<b>102.5</b>	86.32	88.73	86.47	87.53	86.52	84.38	87.03
<b>105.0</b>	93.37	97.37	92.67	93.55	97.73	94.25	96.84
<b>107.5</b>	101.14	99.11	98.86	103.15	107.09	104.24	106.88
<b>110.0</b>	101.19	103.24	105.09	116.96	116.12	113.57	117.04
<b>112.5</b>	105.52	106.83	117.14	126.98	124.74	123.00	126.25
<b>115.0</b>	109.12	116.11	131.54	134.17	133.51	132.05	134.67

**IES INDOOR REPORT**  
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**CANDELA TABULATION - (Cont.)**

<b>117.5</b>	117.12	129.95	137.96	139.13	140.11	139.96	141.40
<b>120.0</b>	131.02	139.43	142.23	143.12	143.67	146.17	145.76
<b>122.5</b>	140.59	142.90	146.53	147.65	147.86	148.37	147.99
<b>125.0</b>	144.67	145.82	149.69	151.17	152.07	152.48	152.89
<b>127.5</b>	148.44	148.67	153.11	155.49	157.08	157.84	157.39
<b>130.0</b>	151.33	152.79	155.70	158.80	160.98	162.18	162.48
<b>132.5</b>	154.99	156.39	158.46	162.24	164.36	166.75	166.30
<b>135.0</b>	158.28	160.20	163.54	167.32	169.06	170.84	169.76
<b>137.5</b>	161.35	164.73	167.43	172.54	173.30	174.42	173.61
<b>140.0</b>	165.83	167.98	172.73	178.24	179.37	180.10	178.38
<b>142.5</b>	169.89	174.17	178.61	183.58	185.70	186.65	182.40
<b>145.0</b>	175.08	182.01	184.67	189.11	191.39	194.28	190.56
<b>147.5</b>	183.62	191.25	193.60	195.06	198.80	201.57	200.41
<b>150.0</b>	192.25	199.95	201.85	202.23	204.69	208.09	211.51
<b>152.5</b>	201.64	204.53	209.10	209.82	211.69	215.73	220.65
<b>155.0</b>	206.58	209.12	213.97	217.03	219.63	222.21	225.64
<b>157.5</b>	212.58	214.22	216.52	220.58	224.81	227.30	230.30
<b>160.0</b>	218.54	217.91	220.34	224.51	228.26	231.90	233.62
<b>162.5</b>	223.76	223.30	224.17	228.28	231.75	234.34	235.84
<b>165.0</b>	230.20	227.84	227.26	231.07	234.04	237.41	238.88
<b>167.5</b>	235.42	231.64	231.97	234.56	237.29	239.96	240.61
<b>170.0</b>	239.12	236.16	234.84	236.42	239.14	241.47	242.21
<b>172.5</b>	243.21	239.05	237.43	238.54	241.21	244.01	243.88
<b>175.0</b>	245.29	242.05	240.87	241.03	243.33	244.85	244.02
<b>177.5</b>	246.90	244.45	242.48	242.45	243.90	245.33	245.32
<b>180.0</b>	247.47	247.47	247.47	247.47	247.47	247.47	247.47

**IES INDOOR REPORT**  
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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	884.58	N.A.	11.30
0-30	1872.94	N.A.	23.90
0-40	3058.67	N.A.	39.00
0-60	5400.94	N.A.	68.80
0-80	6806.48	N.A.	86.80
0-90	6985.66	N.A.	89.00
10-90	6756.33	N.A.	86.10
20-40	2174.1	N.A.	27.70
20-50	3401.18	N.A.	43.40
40-70	3213.97	N.A.	41.00
60-80	1405.54	N.A.	17.90
70-80	533.83	N.A.	6.80
80-90	179.19	N.A.	2.30
90-110	170.79	N.A.	2.20
90-120	291.06	N.A.	3.70
90-130	421.51	N.A.	5.40
90-150	667.91	N.A.	8.50
90-180	860.15	N.A.	11.00
110-180	689.36	N.A.	8.80
0-180	7845.82	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	229.34
10-20	655.24
20-30	988.36
30-40	1185.73
40-50	1227.08
50-60	1115.18
60-70	871.71
70-80	533.83
80-90	179.19
90-100	71.77
100-110	99.02
110-120	120.27
120-130	130.45
130-140	127.13
140-150	119.27
150-160	101.91
160-170	66.99
170-180	23.34



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : TWO M.IES**

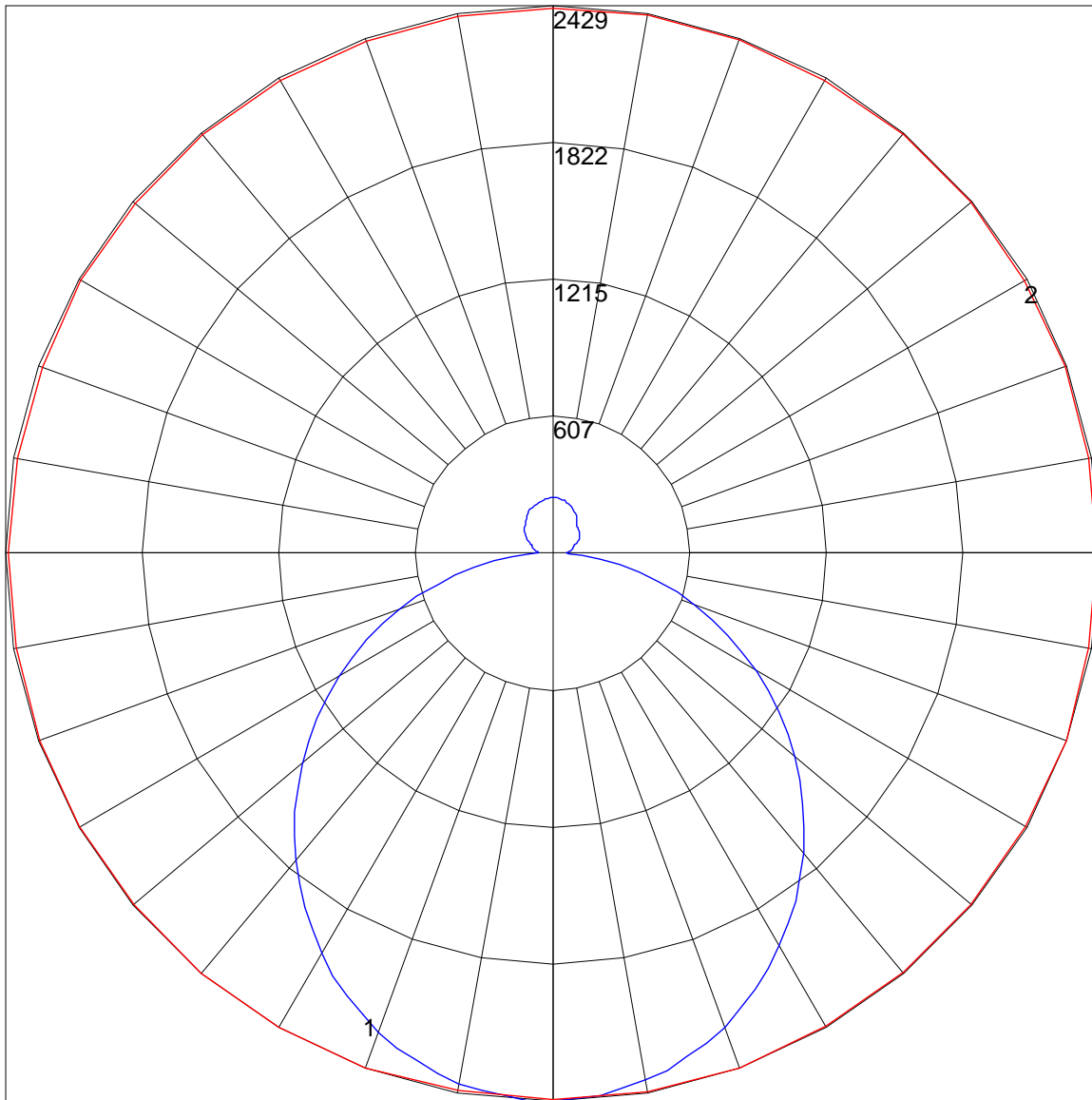
**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	116	116	116	116	112	112	112	112	105	105	105	98	98	98	92	92	92	89
1	106	101	97	93	102	98	94	90	91	88	85	86	83	81	80	78	77	74
2	96	88	81	75	92	85	79	73	80	75	70	75	71	67	70	67	64	61
3	88	77	69	62	84	75	67	61	70	64	59	66	61	56	62	58	54	51
4	80	68	59	53	77	66	58	52	62	55	50	59	53	48	55	50	46	44
5	74	61	52	45	71	59	51	44	56	48	43	52	46	41	50	44	40	38
6	68	55	46	39	65	53	45	39	50	43	38	47	41	36	45	39	35	33
7	63	49	41	35	60	48	40	34	46	38	33	43	37	32	41	35	31	29
8	58	45	37	31	56	44	36	30	42	35	30	40	33	29	38	32	28	26
9	55	41	33	28	53	40	33	27	38	31	27	36	30	26	35	29	25	23
10	51	38	30	25	49	37	30	25	35	29	24	34	28	23	32	27	23	21

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : TWO M.IES

POLAR GRAPH



Maximum Candela = 2429.47 Located At Horizontal Angle = 230, Vertical Angle = 2.5  
# 1 - Vertical Plane Through Horizontal Angles (230 - 50) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)