



IES INDOOR REPORT

PHOTOMETRIC FILENAME : MCH48MW-LED57DMVWH35.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] MCH48MW-LED57DMVWH35
 [TESTDATE] 06-Feb-2018 10:56:58
 [TESTLAB] Radiant Vision Systems ProSource
 [ISSUE DATE] 2/6/2018 11:45:52 AM
 [MANUFAC] Mobern Lighting Co.
 [LAMP] LED Module
 [_TOTALLUMINAIRELUMENS] 5725
 [DRIVER TYPE] (1) OSRAM OT85W
 [BOARD/LAMP TYPE] (4) LUMA SMART "S" BOARDS
 [COLOR TEMP] 3,495 CCT
 [LUMEN/WATT] 100 LM/WT
 [CRI] 85.2
 [_NUMBEROFRAYS]10000000
 [OTHER] Absolute Photometry measurement

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5727
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	100
Total Luminaire Watts	57.2
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.30
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	1.28 m
Luminous Width (90-270)	0.42 m
Luminous Height	0.13 m

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3234	2640	2528
55	3008	2302	2212
65	2689	1907	1840
75	2197	1422	1487
85	1173	1027	1236

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CANDELA TABULATION

	<u>0</u>	<u>10</u>	<u>20</u>	<u>30</u>	<u>40</u>	<u>50</u>	<u>60</u>	<u>70</u>	<u>80</u>	<u>90</u>
0	1942.24	1942.24	1942.24	1942.24	1942.24	1942.24	1942.24	1942.24	1942.24	1942.24
3	1941.48	1941.68	1941.56	1942.05	1941.45	1940.69	1939.83	1938.71	1937.50	1936.46
6	1929.04	1929.94	1932.74	1933.88	1933.25	1931.41	1929.04	1925.79	1923.43	1921.89
9	1912.61	1914.90	1920.77	1922.66	1921.28	1916.30	1909.90	1905.37	1903.27	1903.02
12	1896.43	1899.96	1905.71	1907.06	1902.03	1891.01	1882.03	1877.29	1877.90	1880.57
15	1881.02	1881.32	1883.69	1877.90	1865.83	1855.60	1849.23	1847.69	1849.23	1853.58
18	1856.04	1855.20	1846.93	1839.03	1826.33	1824.81	1822.38	1816.15	1816.83	1818.95
21	1813.36	1813.26	1808.29	1800.14	1791.90	1794.85	1794.23	1778.93	1771.57	1774.01
24	1764.17	1764.46	1766.46	1757.68	1749.97	1751.78	1747.45	1728.36	1716.98	1720.20
27	1720.28	1712.95	1711.94	1712.64	1701.95	1695.60	1691.82	1676.09	1661.15	1661.10
30	1676.32	1655.09	1651.17	1658.99	1646.65	1632.49	1631.01	1627.06	1608.93	1604.30
33	1624.19	1595.12	1594.10	1602.71	1591.92	1575.16	1569.24	1565.08	1553.69	1554.18
36	1562.57	1534.99	1540.45	1539.92	1526.85	1517.37	1510.19	1494.94	1489.07	1499.32
39	1493.15	1475.27	1481.86	1455.65	1454.03	1450.06	1442.94	1428.46	1422.05	1428.21
42	1422.56	1408.33	1407.54	1382.52	1385.80	1369.82	1367.58	1348.72	1349.19	1345.38
45	1354.77	1333.96	1329.62	1311.09	1308.41	1283.74	1285.67	1261.84	1267.04	1259.09
48	1278.34	1257.17	1252.29	1232.78	1226.32	1202.86	1209.23	1182.55	1179.06	1175.89
51	1184.48	1180.18	1158.91	1150.01	1141.51	1119.75	1128.38	1104.01	1097.24	1098.38
54	1089.69	1089.51	1079.73	1057.53	1045.78	1024.90	1029.57	1021.36	1014.21	1015.94
57	1008.65	994.50	990.15	973.22	957.39	930.60	938.33	930.70	933.24	920.35
60	923.84	902.85	891.21	878.40	865.99	843.80	848.53	841.91	846.77	825.59
63	818.10	811.23	800.04	780.38	769.47	755.30	760.89	756.28	761.46	745.49
66	707.51	709.81	689.69	684.56	678.91	669.51	668.31	666.18	677.53	670.72
69	610.03	609.55	589.12	573.45	579.33	581.50	578.91	580.30	596.05	590.64
72	518.43	511.47	493.91	477.91	491.24	498.21	500.23	510.39	520.58	512.88
75	421.70	406.30	393.30	388.94	403.21	422.29	423.87	444.29	446.34	446.23
78	320.16	299.00	299.74	308.58	326.51	346.24	359.59	374.59	379.78	385.66
81	231.84	215.31	236.09	250.42	274.14	291.70	313.68	326.28	331.01	333.20
84	141.99	141.31	158.85	189.25	214.80	230.58	265.31	270.43	287.55	278.07
87	72.37	77.38	94.83	125.84	170.09	187.68	203.39	229.85	237.25	232.79
90	35.64	35.21	59.94	91.07	126.08	157.52	159.84	184.33	204.99	204.97
93	1.57	6.75	21.11	35.81	48.56	58.58	71.39	87.20	83.81	87.42
96	0.14	0.49	1.62	1.90	3.66	3.89	5.25	7.96	9.61	6.13
99	0.07	0.17	0.46	0.61	0.61	0.64	0.87	0.83	2.18	0.43
102	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
108	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
111	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
114	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
117	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
123	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
126	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
129	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
132	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
138	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
141	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
144	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
147	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
153	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
156	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
159	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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CANDELA TABULATION - (Cont.)

162	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
168	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
171	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
174	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
177	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Vert. Angles **Horizontal Angles**

	<u>100</u>	<u>110</u>	<u>120</u>	<u>130</u>	<u>140</u>	<u>150</u>	<u>160</u>	<u>170</u>	<u>180</u>	<u>190</u>
0	1942.24	1942.24	1942.24	1942.24	1942.24	1942.24	1942.24	1942.24	1942.24	1942.24
3	1935.06	1933.76	1932.29	1930.49	1928.95	1928.97	1926.28	1926.69	1927.11	1927.50
6	1921.00	1920.67	1919.68	1917.26	1915.13	1912.57	1909.69	1907.37	1908.71	1911.08
9	1904.51	1905.90	1905.72	1902.67	1897.94	1893.15	1893.27	1894.11	1898.11	1902.15
12	1883.10	1884.50	1883.58	1878.43	1872.45	1865.46	1867.93	1875.60	1883.52	1886.36
15	1854.15	1853.56	1848.02	1842.13	1833.49	1830.98	1836.23	1843.81	1852.06	1849.95
18	1818.63	1811.38	1802.85	1798.49	1795.64	1797.81	1799.18	1808.39	1809.34	1807.82
21	1772.32	1764.85	1755.88	1755.58	1760.33	1762.42	1761.28	1764.21	1764.05	1762.09
24	1720.63	1713.36	1706.29	1712.68	1713.65	1710.02	1714.49	1715.91	1717.86	1716.61
27	1668.38	1660.01	1658.26	1663.23	1654.69	1652.13	1655.62	1664.46	1669.67	1664.80
30	1614.10	1607.12	1602.03	1597.43	1584.72	1590.59	1592.13	1602.34	1613.94	1603.36
33	1546.79	1546.51	1540.20	1534.01	1527.27	1534.20	1526.25	1527.59	1547.04	1538.21
36	1471.12	1486.06	1477.57	1472.17	1472.88	1477.30	1458.83	1449.05	1476.48	1468.96
39	1402.30	1418.17	1403.64	1403.34	1401.84	1393.58	1396.47	1379.30	1409.39	1395.51
42	1330.56	1328.43	1327.57	1326.17	1321.26	1307.45	1324.18	1309.36	1340.35	1317.88
45	1252.94	1243.15	1249.25	1248.62	1237.97	1224.17	1241.91	1231.72	1262.26	1239.92
48	1173.14	1170.23	1169.27	1162.85	1160.71	1147.87	1155.38	1149.71	1174.44	1160.89
51	1094.56	1092.79	1086.34	1071.90	1076.29	1069.79	1053.24	1070.63	1078.77	1084.09
54	1007.07	1011.61	995.83	987.35	977.51	967.42	967.90	984.90	980.93	1000.64
57	923.56	922.28	907.83	904.17	886.75	873.41	876.49	895.10	885.83	908.98
60	838.16	831.51	814.88	810.02	792.16	781.31	787.12	800.54	792.06	806.83
63	749.67	748.02	728.30	713.50	688.79	695.03	706.43	704.84	696.64	704.02
66	658.80	664.56	637.97	626.16	601.44	608.86	599.49	602.66	596.62	600.82
69	576.50	579.27	547.42	536.50	516.72	505.22	499.72	495.21	491.07	499.15
72	507.79	501.83	471.98	455.96	442.12	420.32	409.04	388.79	386.43	398.20
75	443.69	431.75	402.01	389.21	360.00	342.33	316.95	291.93	289.31	299.68
78	383.99	367.98	339.32	323.19	289.88	270.51	235.25	206.02	199.71	208.96
81	330.08	318.27	285.55	263.01	231.15	202.00	166.91	124.71	111.91	125.28
84	277.51	261.60	237.78	212.67	188.41	145.91	110.34	76.78	50.80	73.85
87	228.41	220.71	198.45	172.69	141.32	101.28	65.92	37.75	15.66	33.15
90	191.90	176.15	154.12	133.14	101.61	72.26	43.05	15.20	1.04	12.01
93	85.27	85.89	79.41	70.03	52.95	38.27	20.54	3.70	1.80	3.08
96	12.25	9.04	8.18	8.91	7.63	4.00	3.31	1.11	0.23	0.19
99	3.25	0.62	0.47	0.34	0.53	0.03	0.03	0.22	0.01	0.00
102	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
108	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
111	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
114	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
117	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
123	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
126	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
129	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
132	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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CANDELA TABULATION - (Cont.)

135	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
138	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
141	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
144	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
147	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
153	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
156	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
159	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
162	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
168	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
171	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
174	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
177	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Vert. 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	1942.24	1942.24	1942.24	1942.24	1942.24	1942.24	1942.24	1942.24	1942.24	1942.24
3	1927.84	1930.76	1931.12	1932.51	1933.79	1934.65	1935.30	1936.02	1936.47	1937.12
6	1916.12	1920.60	1923.39	1924.76	1925.42	1924.81	1924.10	1923.82	1923.99	1924.86
9	1907.95	1911.31	1914.02	1913.26	1910.80	1909.57	1910.05	1911.03	1911.83	1912.43
12	1888.39	1891.78	1895.02	1890.38	1884.46	1882.99	1886.86	1891.79	1894.98	1896.61
15	1852.39	1858.07	1863.70	1861.50	1855.69	1855.89	1856.55	1861.13	1869.87	1878.65
18	1803.21	1816.37	1825.63	1827.97	1825.81	1829.87	1828.78	1828.58	1843.10	1855.50
21	1760.47	1772.87	1785.81	1785.24	1784.67	1793.70	1797.75	1802.38	1809.02	1819.46
24	1717.22	1720.96	1738.18	1738.61	1732.20	1741.57	1755.15	1771.16	1765.07	1770.05
27	1662.78	1669.59	1685.99	1687.28	1682.24	1687.11	1701.27	1722.78	1719.09	1718.92
30	1604.15	1613.06	1625.96	1628.89	1631.66	1640.64	1646.68	1661.65	1671.14	1664.49
33	1542.08	1555.04	1568.63	1576.44	1579.61	1586.42	1591.96	1595.73	1609.47	1603.03
36	1474.77	1493.21	1499.03	1515.01	1519.26	1520.62	1534.14	1530.26	1539.38	1546.73
39	1410.59	1413.31	1413.24	1435.57	1441.14	1446.25	1470.22	1467.00	1470.06	1486.25
42	1336.88	1335.65	1338.52	1354.26	1365.89	1359.58	1393.94	1397.38	1396.36	1409.73
45	1255.63	1254.50	1266.77	1282.23	1296.84	1283.30	1312.35	1314.68	1322.09	1333.69
48	1176.87	1176.52	1190.47	1203.00	1224.54	1216.71	1232.01	1229.45	1246.93	1258.47
51	1085.51	1102.76	1103.51	1115.92	1139.23	1138.89	1153.44	1151.95	1168.83	1173.76
54	997.87	1010.47	1006.39	1033.39	1044.36	1052.97	1065.45	1074.13	1079.64	1087.90
57	892.11	914.97	919.43	946.83	957.06	963.23	983.05	987.31	993.58	998.71
60	797.61	813.79	829.54	846.00	864.86	875.68	899.82	898.65	906.74	908.36
63	722.39	721.60	732.64	746.27	780.26	791.17	811.11	816.03	820.85	818.97
66	620.51	635.09	643.96	662.55	695.75	705.10	716.98	734.22	732.29	728.34
69	517.57	530.24	551.91	580.61	606.04	619.67	630.02	647.48	643.42	640.69
72	421.79	441.61	472.25	498.17	522.43	539.17	553.87	561.78	560.66	558.87
75	326.56	358.23	386.17	417.05	442.48	461.39	474.15	483.66	480.43	476.47
78	241.10	281.96	308.92	333.55	370.20	387.10	394.91	410.39	406.59	396.42
81	169.64	206.81	234.12	258.35	289.61	308.73	315.12	330.89	328.52	326.14
84	105.69	150.40	168.32	197.25	226.75	244.10	259.02	269.37	269.06	266.63
87	61.62	89.03	123.62	146.50	171.92	197.40	201.09	216.73	215.00	213.20
90	35.69	61.09	85.64	102.29	123.84	156.44	164.33	189.09	166.99	166.56
93	15.26	32.79	46.64	60.35	75.72	98.73	90.72	92.51	86.74	97.73
96	2.19	3.53	6.37	7.83	9.74	13.64	12.19	9.40	10.12	13.70
99	0.01	0.03	0.29	0.29	0.95	2.06	2.87	1.52	2.27	2.76
102	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCH48MW-LED57DMVWH35.IES

CANDELA TABULATION - (Cont.)

108	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
111	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
114	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
117	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
123	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
126	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
129	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
132	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
138	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
141	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
144	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
147	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
153	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
156	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
159	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
162	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
168	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
171	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
174	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
177	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Vert. Horizontal Angles
Angles

	300	310	320	330	340	350	360
0	1942.24	1942.24	1942.24	1942.24	1942.24	1942.24	1942.24
3	1937.81	1938.42	1939.25	1940.23	1940.18	1940.98	1941.48
6	1926.41	1927.62	1928.98	1929.80	1929.60	1928.25	1929.04
9	1914.01	1917.04	1919.56	1919.38	1917.34	1912.93	1912.61
12	1899.00	1904.18	1909.92	1910.03	1905.01	1898.73	1896.43
15	1879.72	1883.47	1888.68	1890.18	1886.97	1881.68	1881.02
18	1852.93	1852.62	1855.02	1856.43	1852.90	1856.70	1856.04
21	1816.67	1816.61	1821.43	1817.43	1813.79	1815.16	1813.36
24	1774.77	1779.09	1784.72	1773.10	1773.28	1770.77	1764.17
27	1727.61	1726.85	1737.43	1729.06	1729.11	1733.40	1720.28
30	1669.49	1655.90	1673.37	1676.81	1679.22	1689.74	1676.32
33	1616.74	1597.42	1615.68	1622.31	1624.50	1627.13	1624.19
36	1561.61	1541.47	1559.57	1565.72	1565.14	1553.34	1562.57
39	1484.90	1479.91	1498.00	1491.42	1500.79	1483.05	1493.15
42	1408.88	1415.38	1429.42	1419.59	1420.30	1411.88	1422.56
45	1327.76	1340.87	1344.07	1342.77	1340.64	1339.84	1354.77
48	1241.17	1255.32	1257.60	1262.97	1264.91	1270.13	1278.34
51	1160.91	1170.59	1177.25	1184.20	1172.71	1197.13	1184.48
54	1077.94	1086.98	1090.55	1088.60	1097.19	1104.36	1089.69
57	995.09	998.79	1006.21	996.65	1011.42	1009.21	1008.65
60	904.33	907.17	912.19	899.59	910.83	921.37	923.84
63	818.74	815.80	806.78	802.45	819.82	827.19	818.10
66	730.76	723.62	712.21	710.92	714.31	715.53	707.51
69	636.97	625.65	614.61	609.46	615.52	610.11	610.03
72	547.04	538.63	527.40	514.66	516.64	514.42	518.43
75	460.55	458.54	433.87	419.33	412.26	411.97	421.70
78	386.10	373.61	348.78	332.17	317.63	305.10	320.16

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

81	311.29	296.29	278.97	260.66	245.10	218.81	231.84
84	248.93	224.83	204.82	192.08	163.20	145.20	141.99
87	189.77	171.90	149.45	120.55	96.71	75.04	72.37
90	142.51	126.37	104.39	78.93	55.70	29.87	35.64
93	84.22	58.79	45.61	29.97	16.12	3.90	1.57
96	8.90	5.44	4.80	2.34	1.36	0.27	0.14
99	2.29	1.50	0.82	0.94	0.51	0.12	0.07
102	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105	0.00	0.00	0.00	0.00	0.00	0.00	0.00
108	0.00	0.00	0.00	0.00	0.00	0.00	0.00
111	0.00	0.00	0.00	0.00	0.00	0.00	0.00
114	0.00	0.00	0.00	0.00	0.00	0.00	0.00
117	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120	0.00	0.00	0.00	0.00	0.00	0.00	0.00
123	0.00	0.00	0.00	0.00	0.00	0.00	0.00
126	0.00	0.00	0.00	0.00	0.00	0.00	0.00
129	0.00	0.00	0.00	0.00	0.00	0.00	0.00
132	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135	0.00	0.00	0.00	0.00	0.00	0.00	0.00
138	0.00	0.00	0.00	0.00	0.00	0.00	0.00
141	0.00	0.00	0.00	0.00	0.00	0.00	0.00
144	0.00	0.00	0.00	0.00	0.00	0.00	0.00
147	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00
153	0.00	0.00	0.00	0.00	0.00	0.00	0.00
156	0.00	0.00	0.00	0.00	0.00	0.00	0.00
159	0.00	0.00	0.00	0.00	0.00	0.00	0.00
162	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165	0.00	0.00	0.00	0.00	0.00	0.00	0.00
168	0.00	0.00	0.00	0.00	0.00	0.00	0.00
171	0.00	0.00	0.00	0.00	0.00	0.00	0.00
174	0.00	0.00	0.00	0.00	0.00	0.00	0.00
177	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00

IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCH48MW-LED57DMVWH35.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	578.99	N.A.	10.10
0-30	1503.76	N.A.	26.30
0-40	2363.05	N.A.	41.30
0-60	4358.32	N.A.	76.10
0-80	5421.46	N.A.	94.70
0-90	5690.04	N.A.	99.30
10-90	5541.27	N.A.	96.80
20-40	1784.06	N.A.	31.10
20-50	2682.79	N.A.	46.80
40-70	2633.03	N.A.	46.00
60-80	1063.14	N.A.	18.60
70-80	425.38	N.A.	7.40
80-90	268.58	N.A.	4.70
90-110	37.35	N.A.	0.70
90-120	37.35	N.A.	0.70
90-130	37.35	N.A.	0.70
90-150	37.35	N.A.	0.70
90-180	37.35	N.A.	0.70
110-180	0.00	N.A.	0.00
0-180	5727.39	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	148.77
10-20	430.22
20-30	924.77
30-40	859.29
40-50	898.73
50-60	1096.54
60-70	637.76
70-80	425.38
80-90	268.58
90-100	37.21
100-110	0.14
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

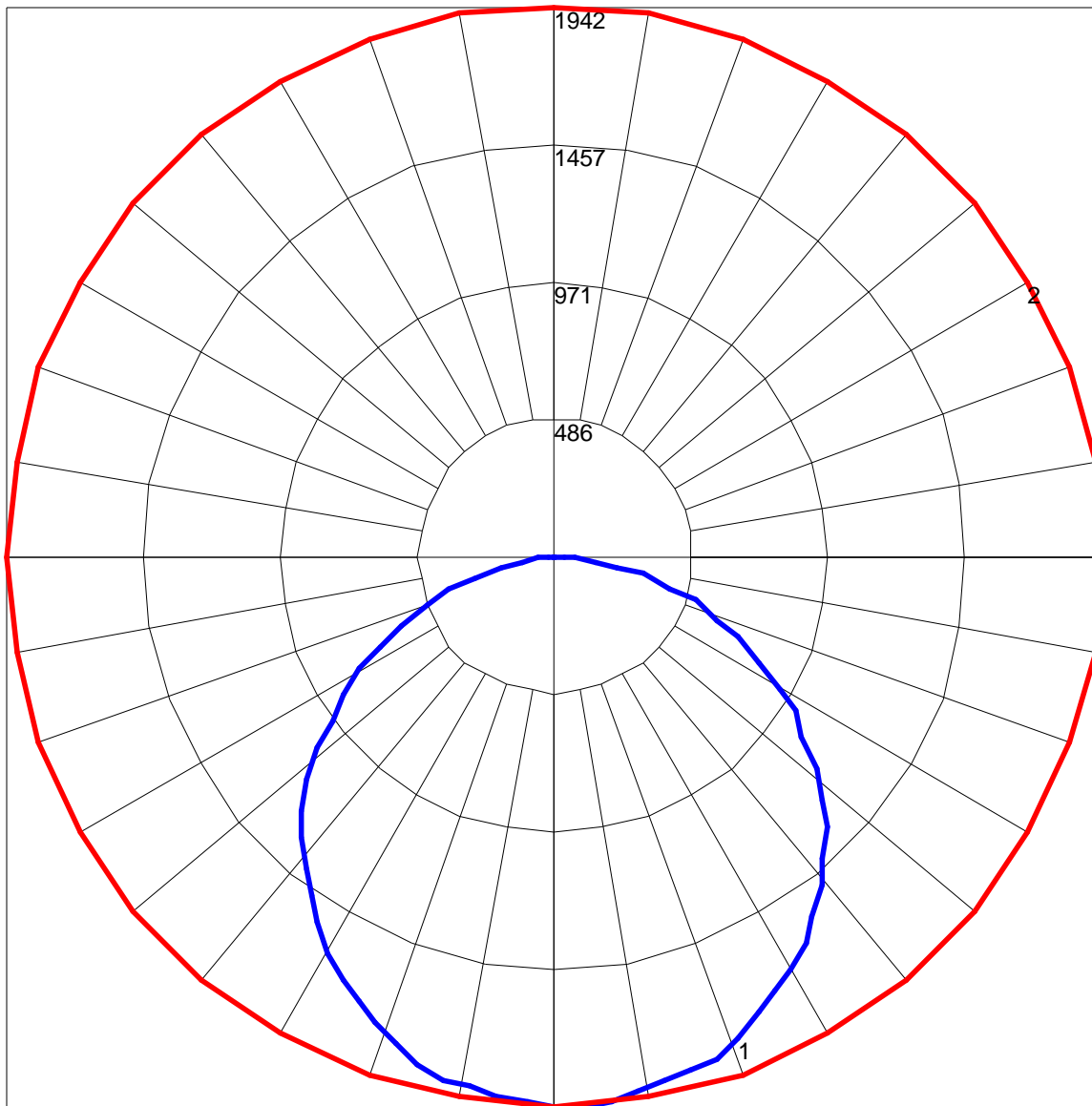
IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCH48MW-LED57DMVWH35.IES

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC RW	80				70				50			30			10			0
	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	101	101	101	99
1	107	102	97	93	104	100	95	91	95	92	88	91	88	85	87	85	83	81
2	97	88	81	75	94	86	80	74	83	77	72	79	74	70	76	72	69	66
3	88	77	69	62	86	76	68	61	72	66	60	70	64	59	67	62	58	55
4	81	68	59	52	78	67	58	52	64	57	51	62	55	50	59	54	49	47
5	74	61	51	44	72	59	51	44	57	49	44	55	48	43	53	47	42	40
6	68	54	45	39	66	53	45	38	52	44	38	50	43	38	48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	41	34	29	40	34	29	27
9	55	41	33	27	53	40	32	27	39	32	27	38	31	26	37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22

POLAR GRAPH



Maximum Candela = 1942.24 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)