



IES INDOOR REPORT

PHOTOMETRIC FILENAME : MCH48MW-LED48DMVWH35.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] MCH48MW-LED48DMVWH35
 [TESTDATE] 06-Feb-2018 09:10:52
 [TESTLAB] Radiant Vision Systems ProSource
 [ISSUE DATE] 2/6/2018 10:20:58 AM
 [MANUFAC] Mobern Lighting Co
 [LAMP] LED Module
 [_TOTALLUMINAIRELUMENS] 4143.2
 [DRIVER TYPE] (1) OSRAM OT85W
 [BOARD/LAMP TYPE] (6) LUMA SMART "S" BOARDS
 [COLOR TEMP] 3,503 CCT
 [LUMEN/WATT] 86 LM/WT
 [CRI] 85.6
 [_NUMBEROFRAYS]10000000
 [OTHER] Absolute Photometry measurement

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4145
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	85
Total Luminaire Watts	48.5
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.40
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	1.27 m
Luminous Width (90-270)	0.25 m
Luminous Height	0.10 m

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3732	3009	2937
55	3495	2695	2644
65	3210	2368	2397
75	2657	2010	2241
85	1517	1792	2148

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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	1318.77	1318.77	1318.77	1318.77	1318.77	1318.77	1318.77	1318.77	1318.77	1318.77
3	1317.74	1317.12	1316.24	1315.03	1313.91	1312.52	1311.59	1311.00	1310.77	1311.19
6	1315.82	1315.62	1314.47	1311.95	1309.01	1306.20	1303.89	1302.26	1301.80	1302.45
9	1308.77	1309.63	1309.60	1306.65	1302.19	1298.15	1295.66	1295.21	1295.45	1295.25
12	1293.81	1294.95	1295.47	1293.76	1289.98	1284.63	1283.02	1284.21	1285.16	1283.61
15	1270.07	1266.97	1268.43	1269.01	1266.11	1263.79	1264.85	1266.98	1264.95	1262.57
18	1242.78	1238.28	1234.45	1242.59	1243.80	1245.37	1248.44	1247.26	1243.02	1239.65
21	1216.64	1215.53	1215.82	1224.15	1227.28	1228.68	1230.97	1224.98	1220.97	1221.71
24	1188.32	1196.73	1201.64	1198.42	1199.30	1203.01	1202.27	1194.41	1196.71	1200.55
27	1154.52	1166.85	1172.79	1162.77	1160.93	1169.47	1168.32	1160.72	1170.93	1167.56
30	1119.98	1125.50	1134.64	1122.00	1120.10	1133.54	1131.60	1125.27	1142.55	1127.69
33	1088.31	1083.40	1093.86	1082.17	1085.82	1100.38	1096.37	1082.45	1102.98	1087.86
36	1050.83	1041.01	1049.01	1045.47	1050.07	1060.88	1060.35	1042.02	1055.87	1049.05
39	1000.43	998.32	1004.15	1002.77	1004.04	1013.90	1016.06	1004.01	1012.94	1010.23
42	948.21	950.25	949.28	955.28	955.12	962.86	971.53	960.96	968.11	969.08
45	904.14	894.26	892.55	900.61	900.79	908.37	918.71	917.58	918.29	923.53
48	855.50	838.96	843.54	846.57	848.42	854.26	863.55	872.20	870.53	874.53
51	790.74	791.96	788.97	794.19	798.47	802.08	817.04	820.87	829.40	823.78
54	725.35	739.94	739.43	732.18	744.31	747.92	766.33	770.76	783.85	773.18
57	674.07	680.84	677.95	675.17	692.87	693.12	713.13	718.97	734.58	724.04
60	621.84	619.28	612.03	616.42	633.80	642.03	660.56	669.23	681.10	675.70
63	552.98	553.51	556.19	557.57	570.94	592.41	611.30	625.35	629.76	627.70
66	479.11	479.51	490.20	500.29	520.13	544.43	560.52	581.56	581.49	582.77
69	413.85	412.28	426.40	435.04	467.14	492.51	512.20	535.91	536.98	542.75
72	351.07	352.19	363.77	379.03	414.50	439.65	465.43	490.74	495.59	503.03
75	282.57	286.60	300.27	327.94	357.05	391.01	416.65	444.04	451.13	459.35
78	211.90	217.66	242.55	280.34	309.37	343.59	373.60	396.54	407.47	415.30
81	154.34	163.09	201.21	240.88	275.96	308.76	339.68	362.21	372.21	381.01
84	94.42	113.34	149.79	194.98	236.88	270.33	299.49	323.21	334.25	347.13
87	50.48	71.69	110.50	152.34	201.07	234.18	262.86	283.62	297.73	299.67
90	22.73	42.54	80.34	122.50	165.79	200.70	228.09	248.49	264.22	267.62
93	1.66	8.92	28.27	45.78	56.00	76.61	82.06	110.79	94.30	104.32
96	0.10	0.44	2.03	2.31	3.68	4.37	6.57	11.19	9.64	7.34
99	0.04	0.15	0.71	0.84	0.62	0.79	1.00	1.07	1.62	0.47
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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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	1318.77	1318.77	1318.77	1318.77	1318.77	1318.77	1318.77	1318.77	1318.77	1318.77
3	1311.82	1313.00	1314.40	1315.90	1317.47	1318.37	1319.61	1320.32	1320.98	1321.59
6	1304.23	1306.67	1310.14	1313.19	1315.45	1316.94	1317.29	1316.34	1316.64	1317.05
9	1294.78	1295.02	1297.44	1301.80	1304.71	1304.43	1303.50	1299.59	1299.42	1299.83
12	1278.99	1274.57	1275.49	1281.43	1286.71	1284.89	1281.06	1278.10	1278.08	1280.00
15	1258.55	1255.10	1254.44	1260.07	1264.23	1263.08	1260.54	1258.88	1261.62	1264.74
18	1239.84	1238.51	1236.73	1239.24	1239.16	1238.00	1236.92	1241.91	1244.59	1249.72
21	1217.75	1215.62	1212.83	1211.75	1210.41	1207.86	1213.07	1220.10	1220.09	1222.14
24	1188.36	1182.91	1181.19	1179.65	1173.60	1167.41	1182.95	1192.69	1189.72	1186.48
27	1154.79	1150.35	1148.88	1143.46	1133.96	1125.57	1139.78	1155.93	1156.08	1150.48
30	1121.70	1120.99	1113.76	1105.44	1094.60	1084.01	1090.41	1108.73	1116.92	1109.21
33	1085.16	1085.94	1078.42	1073.23	1064.41	1048.70	1043.50	1057.02	1070.67	1057.93
36	1045.19	1047.49	1040.31	1033.09	1027.68	1013.94	998.64	1002.54	1023.11	1002.98
39	1005.07	1006.68	994.02	981.70	974.34	963.57	959.59	948.48	979.13	956.14
42	961.54	957.99	948.76	931.47	924.11	910.02	916.09	894.71	932.98	909.09
45	915.77	909.66	899.99	885.37	875.02	849.26	862.70	843.66	878.01	853.49
48	869.81	862.75	848.41	835.45	823.64	789.82	800.39	792.63	814.93	795.19
51	824.72	813.07	800.06	783.09	769.30	742.64	726.46	740.67	747.09	743.12
54	774.82	766.79	751.61	732.29	712.82	692.53	667.47	681.37	680.78	686.45
57	728.31	720.16	704.88	677.35	662.24	634.53	605.92	617.51	620.07	622.66
60	681.77	674.12	654.70	618.33	604.25	567.90	549.54	549.63	557.81	553.79
63	633.11	632.52	606.90	563.86	540.50	510.08	500.53	482.70	487.07	485.92
66	582.28	586.14	555.31	516.65	487.26	461.16	433.90	414.01	413.25	416.06
69	535.62	533.23	502.93	466.71	437.44	401.29	370.22	344.07	342.85	345.76
72	495.82	486.00	458.14	419.38	395.74	347.42	311.76	275.03	274.55	276.79
75	456.68	443.34	414.31	380.69	343.99	296.36	251.97	211.68	206.31	210.88
78	417.64	398.15	373.06	338.18	296.83	251.37	199.21	155.47	141.32	149.82
81	381.30	360.33	333.53	292.87	253.79	208.80	155.04	100.20	80.43	93.13
84	344.90	323.23	301.16	257.05	215.36	176.57	113.17	65.15	38.61	59.76
87	315.77	283.35	257.03	229.14	187.96	136.68	82.05	36.85	13.49	32.41
90	274.40	251.34	225.67	189.79	148.44	107.86	63.40	17.82	3.70	15.72
93	104.40	124.14	100.89	93.50	68.96	54.99	30.80	7.12	2.81	5.27
96	12.88	12.96	10.66	10.61	8.31	6.11	4.94	1.20	0.33	0.48
99	2.43	0.94	0.58	0.26	0.26	0.13	0.04	0.20	0.04	0.01
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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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. 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	1318.77	1318.77	1318.77	1318.77	1318.77	1318.77	1318.77	1318.77	1318.77	1318.77
3	1322.16	1322.61	1322.94	1323.08	1322.90	1322.52	1321.98	1321.32	1320.60	1319.88
6	1319.25	1320.90	1321.79	1322.28	1322.55	1322.00	1321.00	1319.16	1316.60	1314.24
9	1304.19	1306.16	1309.34	1310.94	1312.27	1313.61	1314.30	1313.18	1309.61	1304.36
12	1283.65	1287.25	1290.83	1291.00	1292.23	1295.79	1300.26	1301.86	1298.05	1291.11
15	1268.58	1268.45	1266.99	1267.26	1268.66	1274.36	1280.39	1283.93	1280.68	1275.10
18	1250.28	1248.92	1244.07	1244.32	1246.97	1252.22	1258.88	1261.59	1260.03	1256.08
21	1223.55	1223.10	1219.80	1220.52	1225.76	1229.31	1232.82	1236.63	1232.80	1230.58
24	1187.08	1183.06	1184.94	1191.58	1200.38	1201.26	1200.94	1206.13	1198.86	1193.98
27	1145.82	1141.90	1143.35	1155.11	1169.02	1167.36	1162.99	1167.90	1161.45	1156.57
30	1105.32	1103.06	1101.72	1113.82	1128.10	1129.15	1123.97	1127.72	1124.94	1125.15
33	1061.66	1070.03	1068.09	1074.88	1082.33	1082.65	1084.01	1090.42	1085.49	1083.45
36	1014.72	1034.37	1024.93	1026.74	1032.28	1033.36	1040.52	1049.41	1038.91	1031.74
39	972.80	979.27	969.10	973.47	976.64	984.91	995.24	998.55	991.04	984.43
42	924.60	919.56	922.98	928.73	930.62	933.72	946.09	945.19	941.24	935.96
45	867.20	855.36	878.18	882.87	882.60	885.83	895.29	896.95	888.58	884.96
48	806.38	795.88	822.51	821.07	825.56	838.54	843.02	849.24	834.90	835.54
51	736.75	745.39	756.07	759.55	769.14	786.40	791.72	796.27	788.22	785.50
54	679.49	685.66	688.79	710.18	716.27	732.57	736.47	740.00	742.10	733.17
57	616.04	622.01	633.81	657.88	666.59	675.65	684.25	684.07	694.93	676.09
60	552.54	554.60	574.49	592.92	610.67	622.07	632.30	630.58	642.17	620.71
63	497.63	495.40	505.93	531.73	557.02	573.67	582.99	580.72	587.53	571.48
66	427.09	439.86	447.72	479.51	503.78	524.30	533.50	533.72	532.74	527.67
69	359.58	370.28	396.34	423.93	451.92	475.23	482.84	488.25	484.29	485.57
72	296.09	313.06	353.99	372.42	404.49	429.00	434.97	443.15	442.86	441.75
75	232.53	263.78	302.74	330.15	356.63	381.78	387.40	397.85	399.88	396.71
78	179.21	219.91	256.52	286.21	313.32	337.36	342.75	354.03	356.34	353.18
81	134.78	173.41	210.90	237.52	265.41	297.15	297.44	309.20	310.09	312.47
84	93.35	135.75	170.90	201.92	231.44	263.47	264.17	276.55	275.37	274.47
87	63.17	101.45	139.95	167.54	201.26	222.44	229.98	236.55	240.66	233.73
90	43.67	74.26	110.59	140.23	171.82	188.46	197.86	215.37	217.74	209.38
93	22.21	40.87	59.63	79.62	96.30	114.95	102.57	109.27	105.73	117.89
96	3.12	4.36	8.20	9.24	12.17	16.35	13.23	9.46	11.26	16.56
99	0.02	0.03	0.27	0.21	1.22	2.44	2.87	1.28	2.61	3.41
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-LED48DMVWH35.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	1318.77	1318.77	1318.77	1318.77	1318.77	1318.77	1318.77
3	1319.23	1318.68	1318.38	1318.49	1318.17	1318.09	1317.74
6	1312.04	1310.61	1311.01	1312.24	1313.76	1314.82	1315.82
9	1299.21	1296.41	1296.92	1299.45	1303.34	1306.00	1308.77
12	1284.83	1282.75	1284.26	1285.58	1288.04	1290.74	1293.81
15	1270.11	1268.36	1268.04	1268.10	1267.78	1267.83	1270.07
18	1254.68	1251.99	1248.99	1247.92	1242.65	1244.80	1242.78
21	1231.58	1225.17	1223.63	1225.01	1222.02	1221.65	1216.64
24	1193.70	1186.51	1186.36	1189.52	1196.40	1196.65	1188.32
27	1155.69	1149.40	1154.40	1155.39	1156.87	1161.38	1154.52
30	1118.93	1114.59	1125.79	1122.65	1114.94	1116.67	1119.98
33	1076.81	1076.15	1090.28	1085.60	1078.25	1072.75	1088.31
36	1031.81	1033.31	1043.96	1040.66	1041.22	1032.33	1050.83
39	985.05	987.87	992.52	981.83	997.48	994.83	1000.43
42	938.99	940.27	943.55	930.81	940.63	949.89	948.21
45	886.45	889.22	890.07	882.63	886.09	893.29	904.14
48	832.90	832.44	832.56	831.53	838.39	835.50	855.50
51	781.12	773.44	773.87	775.93	779.43	783.53	790.74
54	724.67	716.51	714.70	712.74	725.95	725.48	725.35
57	671.51	660.92	659.98	655.44	664.19	665.73	674.07
60	616.75	607.14	598.52	591.45	596.12	608.26	621.84
63	566.08	554.68	535.01	530.46	535.20	545.42	552.98
66	513.71	504.49	483.98	477.06	466.00	471.17	479.11
69	459.64	451.54	430.71	413.19	403.75	401.07	413.85
72	414.11	400.74	380.52	354.79	343.15	337.69	351.07
75	372.84	354.75	325.45	301.87	281.42	270.49	282.57
78	331.08	309.83	277.86	254.32	225.02	201.33	211.90

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

81	286.07	268.27	240.49	214.25	182.96	148.38	154.34
84	252.28	227.33	197.51	173.69	132.33	104.45	94.42
87	210.51	189.43	165.14	127.07	90.22	59.97	50.48
90	186.69	165.23	122.31	97.21	60.05	33.01	22.73
93	94.92	76.87	51.58	42.93	24.25	5.47	1.66
96	11.50	6.49	5.42	2.99	2.05	0.40	0.10
99	3.05	1.84	1.24	1.27	0.74	0.16	0.04
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-LED48DMVWH35.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	394.57	N.A.	9.50
0-30	1026.72	N.A.	24.80
0-40	1615.2	N.A.	39.00
0-60	3002.75	N.A.	72.40
0-80	3820.34	N.A.	92.20
0-90	4097.1	N.A.	98.90
10-90	3995.62	N.A.	96.40
20-40	1220.63	N.A.	29.50
20-50	1839.51	N.A.	44.40
40-70	1857.93	N.A.	44.80
60-80	817.59	N.A.	19.70
70-80	347.20	N.A.	8.40
80-90	276.76	N.A.	6.70
90-110	47.62	N.A.	1.10
90-120	47.62	N.A.	1.10
90-130	47.62	N.A.	1.10
90-150	47.62	N.A.	1.10
90-180	47.62	N.A.	1.10
110-180	0.00	N.A.	0.00
0-180	4144.72	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	101.49
10-20	293.08
20-30	632.15
30-40	588.48
40-50	618.87
50-60	768.67
60-70	470.39
70-80	347.20
80-90	276.76
90-100	47.46
100-110	0.16
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

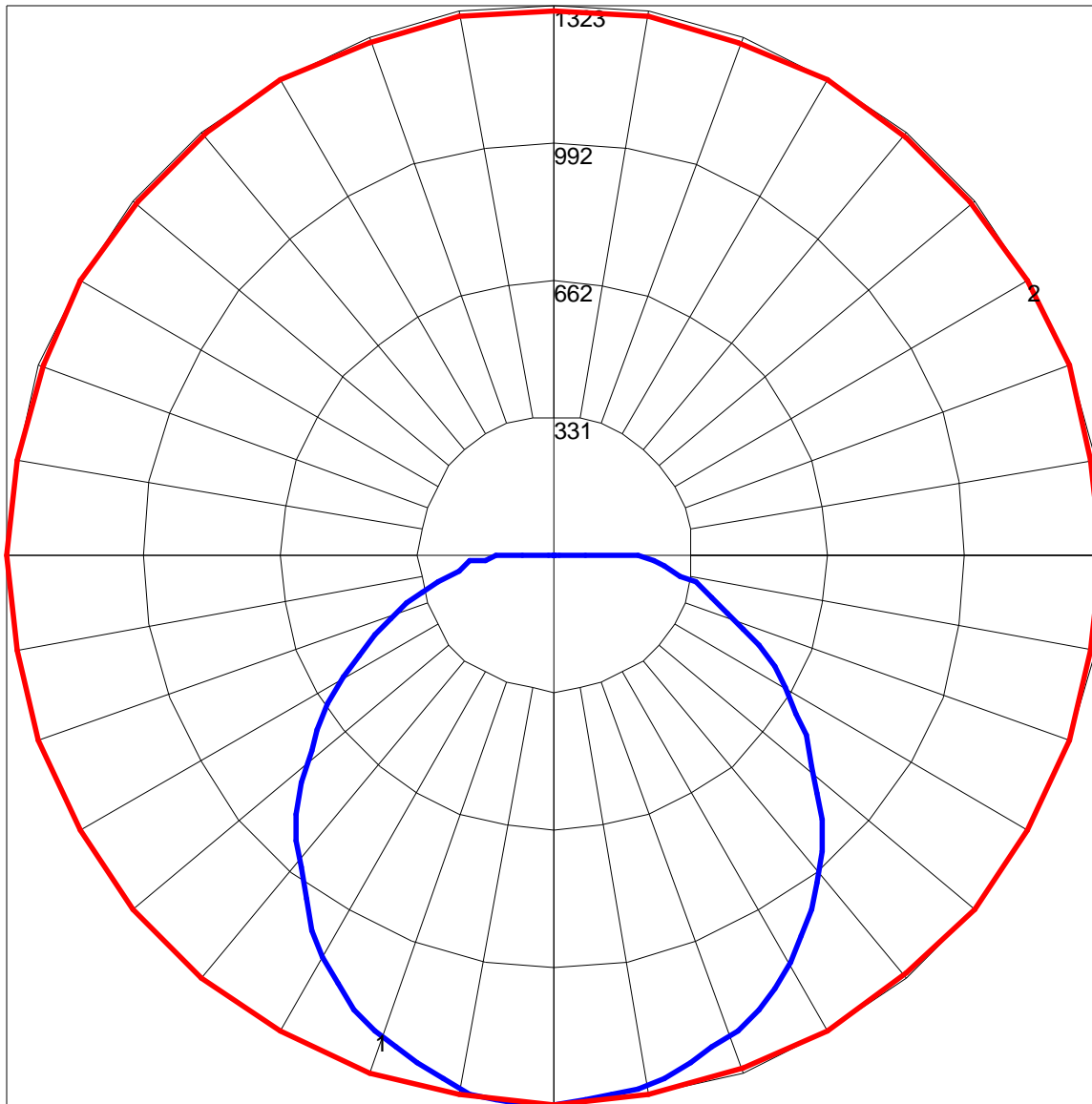
IES INDOOR REPORT
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC 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	110	110	110	106	106	106	101	101	101	99
1	106	101	95	91	103	98	93	89	94	90	86	89	86	83	85	83	81	78
2	96	87	79	73	93	85	78	72	81	75	70	77	72	68	74	70	66	64
3	87	76	67	60	84	74	66	59	71	64	58	68	62	56	65	60	55	53
4	79	67	57	50	77	65	56	49	62	55	49	60	53	48	57	52	47	45
5	73	59	50	43	71	58	49	42	56	48	42	53	47	41	51	45	41	38
6	67	53	44	37	65	52	43	37	50	42	36	48	41	36	46	40	35	33
7	62	48	39	32	60	47	38	32	45	38	32	44	37	32	42	36	31	29
8	58	44	35	29	56	43	34	29	41	34	28	40	33	28	39	32	28	26
9	54	40	31	26	52	39	31	26	38	31	25	37	30	25	36	30	25	23
10	50	37	29	23	49	36	28	23	35	28	23	34	27	23	33	27	23	21

POLAR GRAPH



Maximum Candela = 1323.08 Located At Horizontal Angle = 230, Vertical Angle = 3
1 - Vertical Plane Through Horizontal Angles (230 - 50) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (3) (Through Max. Cd.)