



IES INDOOR REPORT

PHOTOMETRIC FILENAME : MW4AS48LED24DMVXXSF40.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] MW4AS48LED24DMVxxSF40
 [TESTDATE] 05-Jul-2018 12:52:10
 [TESTLAB] Radiant Vision Systems ProSource
 [ISSUEDATE] 7/5/2018 2:19:48 PM
 [MANUFAC] Mobern Lighting Co.
 [LAMP] LED Module
 [TOTALLUMINAIRELUMENS] 2478.1
 [DRIVER TYPE] (1) OSRAM OT50W
 [BOARD/LAMP TYPE] (1) LED TAPE - 23" & 24"
 [COLOR TEMP] 4,061 CCT
 [LUMEN/WATT] 99 LPW
 [CRI] 85.0
 [NUMBEROFRAYS]10000000
 [OTHER] Absolute Photometry measurement

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2479
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	101
Total Luminaire Watts	24.5
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	0.78
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	1.22 m
Luminous Width (90-270)	0.10 m
Luminous Height	0.10 m

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	5025	1336	619
55	4437	546	66
65	3782	60	3
75	3021	0	0
85	1553	1	1

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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	758.91	758.91	758.91	758.91	758.91	758.91	758.91	758.91	758.91	758.91
3	760.08	753.80	747.44	741.02	735.67	730.05	726.43	723.74	721.97	721.92
6	757.86	745.02	732.39	719.30	708.06	698.88	692.59	687.25	684.63	684.26
9	749.69	729.64	709.62	690.73	674.04	661.85	652.24	646.53	643.76	642.60
12	737.06	709.96	685.28	662.23	644.49	627.34	614.32	604.67	600.03	598.11
15	721.94	691.13	662.79	633.79	608.93	589.21	573.69	563.66	555.18	552.85
18	704.24	672.52	637.43	603.09	572.12	548.39	530.45	519.25	512.34	507.53
21	683.45	648.71	612.36	571.18	536.97	508.69	488.45	475.27	465.35	462.26
24	659.58	621.72	584.56	538.99	503.07	471.52	445.38	428.09	417.10	416.11
27	633.46	592.86	553.25	507.27	467.57	433.69	405.28	383.39	371.32	368.53
30	608.80	563.65	516.82	470.79	427.82	389.10	360.79	341.77	328.60	321.42
33	587.60	535.76	481.12	431.30	389.30	346.11	316.24	296.34	283.38	276.48
36	563.00	504.32	442.46	391.72	345.30	304.11	273.45	252.26	236.77	232.41
39	529.45	472.09	406.73	349.24	301.20	260.00	226.74	211.16	192.44	187.95
42	495.65	436.61	369.59	310.65	263.34	219.20	185.65	166.16	148.94	145.34
45	469.23	398.04	332.02	273.02	226.57	180.53	145.81	124.42	108.83	106.84
48	439.68	361.59	299.20	236.24	186.91	141.47	107.78	87.21	73.14	71.40
51	397.63	330.28	262.86	199.32	146.35	104.65	73.64	52.61	42.97	38.08
54	356.32	296.33	229.31	160.43	109.16	71.01	41.90	24.66	17.33	14.38
57	328.19	258.25	190.75	126.91	77.40	42.49	19.07	8.26	5.31	4.72
60	300.08	221.55	152.03	95.52	47.47	20.50	5.01	1.77	1.36	1.36
63	258.62	186.81	119.82	62.67	23.80	5.13	2.06	0.76	0.25	0.67
66	214.79	150.10	85.28	36.84	8.68	1.35	0.40	0.57	0.00	0.48
69	182.07	115.99	57.68	16.56	2.33	0.61	0.06	0.00	0.00	0.14
72	153.87	86.57	31.63	5.64	0.40	0.04	0.11	0.02	0.11	0.00
75	124.64	58.51	13.30	1.12	0.00	0.12	0.00	0.07	0.00	0.02
78	93.37	34.86	3.85	0.00	0.21	0.00	0.00	0.02	0.00	0.07
81	68.15	16.05	1.38	0.04	0.12	0.09	0.04	0.07	0.01	0.07
84	39.32	6.11	0.24	0.12	0.05	0.06	0.03	0.00	0.04	0.07
87	17.33	2.16	0.17	0.07	0.21	0.20	0.08	0.11	0.00	0.30
90	5.26	0.49	0.07	0.26	0.05	0.00	0.00	0.00	0.00	0.08
93	0.37	0.18	0.30	0.00	0.07	0.03	0.00	0.11	0.00	0.07
96	0.04	0.01	0.00	0.00	0.00	0.03	0.00	0.01	0.00	0.00
99	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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
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. Horizontal Angles
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	758.91	758.91	758.91	758.91	758.91	758.91	758.91	758.91	758.91	758.91
3	721.84	723.45	725.86	729.09	734.17	739.12	744.92	751.02	757.22	763.55
6	685.46	688.73	694.53	700.85	709.39	719.53	731.32	743.14	755.35	767.66
9	643.97	647.48	654.73	666.19	679.31	695.94	714.01	733.56	752.42	770.57
12	597.95	602.02	614.06	630.89	650.61	669.20	692.88	718.59	745.51	770.82
15	552.23	559.59	572.83	593.50	616.56	640.75	668.96	698.98	732.20	763.89
18	510.72	517.40	532.29	555.36	581.45	609.86	640.78	677.92	714.17	754.09
21	466.47	476.48	491.39	513.56	543.09	574.92	612.53	653.50	694.14	738.73
24	419.58	430.34	445.91	470.23	501.05	533.75	579.37	627.46	674.88	722.87
27	370.95	383.50	403.52	428.63	460.70	496.94	543.27	598.68	657.67	710.66
30	324.00	340.16	359.72	384.44	422.24	464.04	506.86	567.14	638.20	693.32
33	277.48	294.22	316.80	342.07	386.20	432.76	475.43	533.89	612.43	663.44
36	232.51	248.82	274.48	299.71	342.45	398.56	442.35	497.28	583.09	629.20
39	191.28	207.72	228.43	257.36	299.54	356.89	411.79	464.22	553.59	601.02
42	150.56	164.75	188.56	219.92	263.76	316.92	378.72	431.84	523.06	577.99
45	110.65	124.87	148.71	181.66	226.83	276.80	340.15	399.83	490.11	552.94
48	74.36	88.51	109.10	140.86	186.30	238.89	300.56	368.51	455.22	523.91
51	42.58	54.06	73.51	104.27	146.77	204.02	257.70	337.83	419.38	496.57
54	18.00	25.87	41.57	72.29	110.59	165.41	222.70	304.31	383.31	466.05
57	4.29	6.66	19.55	44.31	78.61	128.08	185.14	267.27	347.51	432.76
60	1.31	1.85	5.13	20.71	48.94	91.37	144.39	227.23	311.46	396.28
63	0.39	0.74	0.81	4.94	20.30	59.80	118.46	188.94	274.61	360.23
66	0.18	0.17	0.64	1.11	6.47	35.00	84.53	153.58	237.19	322.05
69	0.00	0.03	0.13	0.17	1.50	16.13	55.06	119.61	199.69	282.89
72	0.11	0.00	0.07	0.12	0.54	3.99	30.63	86.06	162.96	243.40
75	0.00	0.07	0.37	0.00	0.29	0.97	12.43	54.63	127.75	206.06
78	0.11	0.06	0.05	0.25	0.00	0.39	3.74	29.02	93.99	170.28
81	0.09	0.08	0.09	0.12	0.14	0.18	0.81	12.18	60.89	130.94
84	0.03	0.03	0.11	0.06	0.12	0.12	0.13	4.26	35.32	100.66
87	0.13	0.12	0.14	0.04	0.15	0.26	0.07	1.42	14.45	71.40
90	0.00	0.00	0.05	0.07	0.00	0.10	0.09	1.32	3.23	44.94
93	0.01	0.01	0.00	0.12	0.06	0.19	0.27	0.20	0.87	13.87
96	0.01	0.22	0.04	0.11	0.14	0.05	0.03	0.00	0.12	1.78
99	0.00	0.06	0.01	0.03	0.00	0.00	0.00	0.00	0.00	0.13
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. 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	758.91	758.91	758.91	758.91	758.91	758.91	758.91	758.91	758.91	758.91
3	769.97	776.89	782.48	788.71	792.95	796.16	798.29	798.37	798.32	796.28
6	780.54	793.75	805.43	815.79	824.63	832.61	836.97	837.98	835.53	830.18
9	790.05	807.23	824.96	839.71	854.28	865.55	872.37	874.51	870.31	861.48
12	795.03	819.03	840.37	860.18	877.47	893.42	903.40	906.59	901.99	890.04
15	796.31	827.86	856.77	881.13	899.83	916.29	929.84	933.57	928.84	913.46
18	792.15	830.96	864.25	893.95	916.79	936.85	950.50	955.58	949.51	934.69
21	782.46	826.78	864.21	896.89	926.61	952.08	968.00	973.06	967.38	950.28
24	769.16	814.38	859.20	897.66	935.62	965.69	981.33	986.63	982.12	962.55
27	753.95	807.10	860.44	900.13	943.37	975.17	989.76	996.71	993.40	969.81
30	741.04	799.61	860.24	903.58	950.03	981.95	994.87	1002.76	1000.14	975.09
33	719.58	788.94	851.66	901.43	949.15	983.27	998.64	1003.92	1001.09	977.08
36	697.66	777.16	837.35	888.78	938.27	975.84	998.29	999.19	997.03	975.12
39	684.90	757.63	816.17	874.14	923.05	963.11	992.16	988.62	990.24	965.89
42	670.35	730.92	798.55	862.00	908.74	949.18	978.69	976.63	976.90	950.51
45	643.04	696.58	778.52	846.62	890.55	933.81	957.97	966.49	955.72	933.77
48	602.94	669.03	756.08	820.32	867.00	913.11	934.04	952.63	931.86	912.97
51	556.98	651.29	726.19	790.60	843.37	887.01	909.32	929.33	908.95	883.09
54	527.40	618.47	687.92	764.60	814.81	861.54	879.20	898.88	881.02	851.61
57	497.61	575.69	657.28	731.22	782.26	831.22	849.45	865.17	850.22	822.70
60	466.71	533.72	624.40	691.98	751.53	793.12	819.97	830.29	816.73	792.60
63	441.17	503.14	582.37	653.06	722.07	755.84	789.20	795.46	783.00	758.04
66	402.80	474.67	546.88	616.05	683.05	721.43	752.67	760.32	747.32	719.11
69	361.08	432.02	512.23	575.19	638.13	687.08	709.78	723.89	709.48	678.71
72	322.89	395.75	478.21	536.63	597.28	649.45	667.87	684.36	671.48	639.64
75	286.12	361.78	436.14	505.71	556.81	606.25	628.80	640.81	629.46	601.23
78	249.61	327.41	398.84	468.86	517.39	560.29	590.56	596.57	586.09	559.88
81	214.69	287.70	353.25	417.55	470.32	513.50	541.43	550.59	538.27	519.17
84	176.78	253.05	308.77	378.85	438.77	475.00	500.80	510.63	505.60	477.13
87	139.12	208.15	275.67	338.63	398.51	432.87	462.02	470.13	466.87	429.97
90	106.47	166.79	233.87	296.38	348.66	386.03	416.06	443.77	429.41	383.14
93	53.76	95.73	123.91	164.36	196.13	236.33	199.57	218.56	194.89	214.47
96	8.41	10.94	16.86	19.51	25.31	33.62	24.37	19.45	20.35	30.34
99	0.06	0.10	0.46	0.52	2.24	5.25	4.18	2.58	4.25	6.45
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

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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

	<u>300</u>	<u>310</u>	<u>320</u>	<u>330</u>	<u>340</u>	<u>350</u>	<u>360</u>
0	758.91	758.91	758.91	758.91	758.91	758.91	758.91
3	793.30	789.46	783.80	778.67	772.44	766.30	760.08
6	821.73	813.15	803.89	793.71	782.02	769.91	757.86
9	848.63	833.88	820.64	805.10	788.85	768.68	749.69
12	871.49	853.30	835.54	816.84	792.20	764.84	737.06
15	893.45	871.81	848.68	822.28	789.28	753.73	721.94
18	912.33	886.33	856.25	822.43	780.22	741.29	704.24
21	925.93	898.50	864.72	823.13	775.00	729.08	683.45
24	935.33	907.61	867.78	817.27	770.87	717.52	659.58
27	941.00	911.79	867.26	809.77	758.39	701.26	633.46
30	943.77	908.89	857.80	800.26	745.41	678.39	608.80
33	939.02	900.93	843.23	786.67	725.44	654.67	587.60
36	929.64	889.31	828.94	766.73	699.80	632.18	563.00
39	918.13	874.42	808.35	735.41	674.09	606.41	529.45
42	903.09	853.88	790.26	711.79	646.12	577.30	495.65
45	885.01	835.41	772.76	693.41	621.13	544.02	469.23
48	862.24	813.83	749.39	672.02	597.66	510.55	439.68
51	836.42	783.13	716.20	640.70	566.18	482.66	397.63
54	810.39	750.25	680.38	602.72	537.21	450.89	356.32
57	785.25	714.65	656.14	576.07	503.37	417.07	328.19
60	753.69	683.88	625.68	544.20	464.45	385.14	300.08
63	718.25	655.22	585.64	508.43	427.83	351.23	258.62
66	680.75	623.09	551.88	476.71	387.08	309.89	214.79
69	641.94	583.97	514.43	438.52	354.26	272.88	182.07
72	604.31	543.62	475.67	400.42	320.92	242.00	153.87
75	564.49	506.11	431.31	362.58	283.17	206.21	124.64
78	521.83	464.71	395.32	327.14	245.23	168.17	93.37

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

81	476.26	424.32	364.93	297.36	218.81	137.47	68.15
84	440.70	386.00	324.10	257.69	177.53	105.91	39.32
87	398.45	346.96	281.72	214.09	142.11	71.68	17.33
90	353.36	293.42	243.28	175.27	110.95	44.88	5.26
93	173.88	140.05	97.38	74.32	40.40	10.45	0.37
96	20.40	11.46	10.29	5.23	3.42	0.65	0.04
99	5.31	3.29	2.25	2.19	1.29	0.27	0.02
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
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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	228.07	N.A.	9.20
0-30	592.03	N.A.	23.90
0-40	929.21	N.A.	37.50
0-60	1716.24	N.A.	69.20
0-80	2220.69	N.A.	89.60
0-90	2435.11	N.A.	98.20
10-90	2376.57	N.A.	95.90
20-40	701.14	N.A.	28.30
20-50	1052.83	N.A.	42.50
40-70	1065.08	N.A.	43.00
60-80	504.45	N.A.	20.30
70-80	226.40	N.A.	9.10
80-90	214.41	N.A.	8.60
90-110	43.79	N.A.	1.80
90-120	43.79	N.A.	1.80
90-130	43.79	N.A.	1.80
90-150	43.79	N.A.	1.80
90-180	43.79	N.A.	1.80
110-180	0.00	N.A.	0.00
0-180	2478.9	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	58.54
10-20	169.53
20-30	363.96
30-40	337.18
40-50	351.69
50-60	435.34
60-70	278.05
70-80	226.40
80-90	214.41
90-100	43.61
100-110	0.18
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

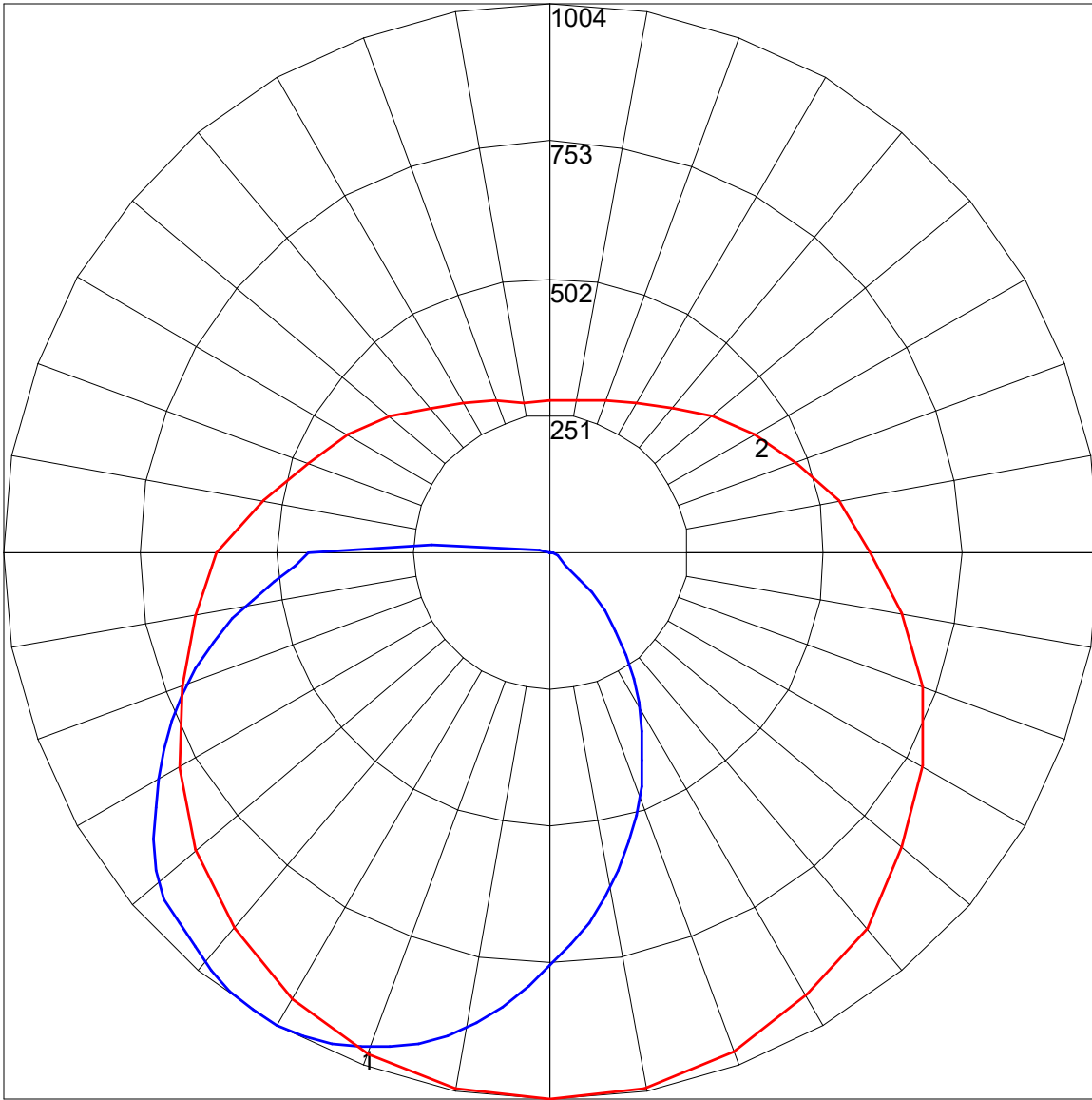
IES INDOOR REPORT
PHOTOMETRIC FILENAME : MW4AS48LED24DMVXXSF40.IES

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	
0	119	119	119	119	116	116	116	116	110	110	110	105	105	105	100	100	100	98
1	105	99	94	89	102	97	92	87	92	88	84	88	84	81	84	81	78	76
2	95	85	77	71	92	83	76	70	79	73	68	75	70	66	72	68	64	61
3	86	74	65	58	83	72	64	57	69	62	56	66	60	55	63	58	53	51
4	78	65	56	48	76	64	55	48	61	53	47	58	52	46	56	50	45	43
5	72	58	48	41	70	57	48	41	54	46	40	52	45	40	50	44	39	37
6	66	52	43	36	64	51	42	35	49	41	35	47	40	35	45	39	34	32
7	61	47	38	31	59	46	37	31	44	37	31	43	36	30	41	35	30	28
8	57	43	34	28	55	42	34	28	41	33	27	39	32	27	38	31	27	25
9	53	39	31	25	52	39	30	25	37	30	25	36	29	24	35	29	24	22
10	50	36	28	22	48	36	28	22	34	27	22	33	27	22	32	26	22	20

POLAR GRAPH



Maximum Candela = 1003.92 Located At Horizontal Angle = 270, Vertical Angle = 33
1 - Vertical Plane Through Horizontal Angles (270 - 90) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (33) (Through Max. Cd.)