



IES INDOOR REPORT

PHOTOMETRIC FILENAME : MW4AS48LED48DMVXXSF40.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] MW4AS48LED48DMVxxSF40
 [TESTDATE] 06-Jul-2018 09:11:20
 [TESTLAB] Radiant Vision Systems ProSource
 [ISSUEDATE] 7/6/2018 11:24:30 AM
 [MANUFAC] Mobern Lighting Co.
 [LAMP] LED Module
 [TOTALLUMINAIRELUMENS] 4165.7
 [DRIVER TYPE] (1) OSRAM OT50W
 [BOARD/LAMP TYPE] (1) LED TAPE - 23" & 24"
 [COLOR TEMP] 4,102 CCT
 [LUMEN/WATT] 87 LPW
 [CRI] 84.8
 [NUMBEROFRAYS]10000000
 [OTHER] Absolute Photometry measurement

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4167
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	87
Total Luminaire Watts	48.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	0.76
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	8467	2217	1052
55	7415	940	119
65	6358	99	2
75	5116	3	1
85	2627	1	0

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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	1291.91	1291.91	1291.91	1291.91	1291.91	1291.91	1291.91	1291.91	1291.91	1291.91
3	1289.61	1277.99	1266.23	1255.18	1245.21	1234.82	1228.03	1222.73	1219.01	1218.59
6	1277.06	1255.83	1235.80	1214.37	1195.23	1178.74	1166.20	1154.79	1148.49	1146.30
9	1259.54	1229.76	1200.22	1171.12	1142.72	1119.64	1099.58	1086.90	1080.50	1078.09
12	1238.14	1198.54	1162.45	1126.68	1095.19	1061.81	1035.37	1016.71	1009.27	1008.34
15	1212.66	1162.69	1119.42	1074.49	1031.69	993.76	964.02	945.72	932.10	931.60
18	1182.56	1125.57	1066.71	1015.67	965.51	923.04	890.86	871.13	858.34	851.37
21	1147.38	1084.38	1020.24	957.85	904.37	855.91	821.65	800.38	781.33	772.54
24	1107.69	1042.88	974.09	899.13	844.24	793.28	750.10	723.69	703.27	695.65
27	1065.03	998.81	925.39	843.77	782.07	731.35	683.98	646.29	625.11	619.94
30	1023.73	953.81	869.44	785.91	714.22	656.91	610.54	572.85	549.41	543.55
33	985.96	908.42	812.39	725.32	649.60	581.95	534.76	494.44	472.37	465.49
36	942.70	852.29	745.60	663.20	578.08	509.63	462.07	418.54	396.11	389.34
39	887.36	790.71	685.00	593.16	506.28	436.74	385.05	349.00	323.14	318.27
42	833.15	725.88	623.60	524.92	440.26	367.57	316.63	275.35	250.40	249.78
45	790.65	662.40	558.15	457.85	375.06	300.36	247.50	208.29	183.94	181.51
48	740.65	604.89	497.71	395.87	310.50	235.95	181.55	147.67	125.12	117.71
51	667.01	554.77	433.40	334.80	246.70	176.25	124.52	90.96	74.06	64.31
54	595.23	499.80	378.16	266.56	187.30	121.83	73.02	49.92	29.80	27.35
57	549.11	438.05	316.92	209.27	132.42	75.64	32.66	14.52	7.39	6.20
60	504.13	377.55	256.14	157.71	81.99	35.71	10.20	4.28	2.92	2.38
63	434.94	317.18	203.55	108.57	38.47	9.65	2.90	1.73	1.37	0.44
66	360.96	253.50	144.06	66.63	13.55	3.00	1.69	0.53	0.24	0.33
69	306.74	192.54	93.62	29.13	3.66	0.52	0.41	0.00	0.21	0.15
72	259.57	144.48	53.25	11.00	0.69	0.00	0.21	0.17	0.00	0.08
75	211.05	98.11	21.84	1.97	0.64	0.21	0.16	0.08	0.56	0.16
78	158.68	56.77	7.57	0.62	0.46	0.12	0.08	0.00	0.00	0.41
81	115.66	28.52	2.45	0.10	0.24	0.19	0.15	0.03	0.00	0.05
84	66.52	9.96	0.79	0.12	0.05	0.16	0.19	0.00	0.00	0.00
87	29.31	3.52	0.69	0.06	0.21	0.00	0.04	0.19	0.00	0.00
90	8.88	1.15	0.00	0.00	0.12	0.04	0.12	0.00	0.07	0.00
93	0.89	0.07	0.13	0.02	0.01	0.00	0.00	0.00	0.09	0.39
96	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.07
99	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.02
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. Horizontal Angles
Angles

	100	110	120	130	140	150	160	170	180	190
0	1291.91	1291.91	1291.91	1291.91	1291.91	1291.91	1291.91	1291.91	1291.91	1291.91
3	1218.01	1220.68	1224.88	1230.51	1239.76	1249.17	1258.74	1269.91	1280.95	1291.78
6	1147.49	1152.87	1163.07	1174.41	1189.82	1207.79	1228.03	1247.16	1266.94	1285.95
9	1080.70	1086.95	1099.06	1118.25	1140.94	1169.62	1198.90	1229.58	1258.92	1287.62
12	1011.45	1020.08	1038.24	1063.48	1096.41	1128.90	1166.78	1205.92	1248.68	1292.50
15	936.72	953.06	970.48	997.81	1034.75	1077.31	1122.65	1169.98	1226.91	1284.54
18	864.13	881.18	900.21	928.68	971.00	1020.00	1068.10	1131.37	1197.91	1269.87
21	785.11	809.42	830.80	858.80	908.90	964.02	1023.59	1094.66	1167.96	1246.82
24	703.82	728.78	754.99	786.88	840.68	899.56	976.30	1059.16	1137.33	1218.99
27	625.81	647.62	682.22	716.10	772.42	837.03	917.47	1012.16	1104.48	1187.43
30	551.28	570.10	603.82	641.10	707.09	778.35	852.50	955.22	1067.00	1147.16
33	472.39	490.43	529.67	573.56	646.40	722.48	798.41	897.39	1023.29	1101.79
36	394.16	419.07	461.12	510.33	576.61	667.04	745.71	836.12	975.56	1058.39
39	322.24	352.14	384.37	442.24	505.60	602.69	696.64	779.62	926.23	1015.54
42	251.49	276.78	315.34	372.35	439.33	534.48	636.99	723.98	874.54	971.78
45	186.01	207.68	247.66	303.40	374.20	465.10	570.34	671.06	819.61	925.81
48	126.90	146.16	183.01	237.51	310.31	402.24	505.52	619.32	763.73	877.53
51	74.70	88.60	126.48	177.75	247.69	342.13	435.78	565.00	708.56	832.75
54	28.95	42.42	72.00	122.01	187.43	274.16	376.97	504.52	650.23	781.73
57	8.24	14.56	30.46	73.60	132.40	212.04	314.15	444.09	585.75	726.60
60	3.67	3.64	8.88	33.80	75.09	152.43	252.97	382.62	520.59	666.38
63	0.91	1.46	3.01	8.92	37.84	100.41	200.79	319.26	460.06	604.57
66	0.10	0.40	0.77	2.31	14.99	59.47	142.71	256.07	399.89	537.88
69	0.00	0.29	0.79	1.21	3.69	26.69	94.09	197.79	335.73	472.07
72	0.00	0.03	0.18	0.07	0.82	6.83	53.29	143.94	272.29	407.09
75	0.00	0.08	0.04	0.41	0.32	1.31	20.51	92.84	214.58	343.92
78	0.21	0.00	0.21	0.00	0.26	0.21	5.25	49.40	159.86	283.11
81	0.07	0.15	0.10	0.23	0.41	0.22	1.82	20.81	103.20	217.23
84	0.06	0.12	0.21	0.04	0.02	0.28	0.60	7.20	59.48	165.31
87	0.53	0.03	0.02	0.00	0.00	0.79	0.49	2.18	24.24	112.16
90	0.14	0.03	0.00	0.00	0.29	0.47	0.03	1.42	6.94	70.76
93	0.04	0.03	0.20	0.00	0.20	0.06	0.23	0.30	1.59	24.30
96	0.05	0.23	0.00	0.00	0.15	0.04	0.15	0.08	0.45	2.89
99	0.02	0.06	0.00	0.00	0.05	0.00	0.01	0.01	0.00	0.26
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	1291.91	1291.91	1291.91	1291.91	1291.91	1291.91	1291.91	1291.91	1291.91	1291.91
3	1302.47	1316.15	1325.51	1337.58	1346.76	1354.09	1359.42	1360.91	1361.67	1358.47
6	1306.94	1328.61	1348.50	1367.26	1386.11	1403.97	1415.22	1421.10	1419.94	1412.53
9	1318.14	1345.23	1373.50	1399.67	1428.18	1450.54	1464.21	1470.24	1467.41	1457.41
12	1334.76	1373.29	1405.35	1440.06	1473.82	1501.01	1512.61	1514.56	1510.69	1499.49
15	1342.84	1394.02	1436.80	1479.38	1518.94	1548.06	1561.48	1559.68	1553.44	1536.69
18	1337.66	1402.49	1453.50	1503.13	1550.26	1587.10	1600.75	1600.35	1589.94	1569.49
21	1322.76	1400.57	1464.65	1518.41	1569.67	1613.22	1631.14	1630.75	1624.65	1598.33
24	1297.02	1375.37	1462.11	1526.65	1583.73	1632.76	1652.63	1654.14	1655.54	1628.62
27	1260.12	1352.16	1454.40	1524.14	1588.79	1638.72	1666.38	1674.06	1675.86	1644.45
30	1232.94	1336.05	1439.71	1516.56	1593.17	1638.79	1674.00	1685.92	1683.17	1647.50
33	1204.69	1324.32	1422.95	1509.81	1595.99	1643.07	1680.09	1685.57	1680.61	1643.89
36	1178.94	1307.76	1405.02	1490.90	1582.25	1646.29	1682.61	1678.48	1671.53	1637.63
39	1155.80	1266.93	1374.75	1468.05	1551.70	1629.01	1671.85	1669.64	1658.61	1621.74
42	1121.76	1217.46	1346.35	1445.68	1525.86	1598.26	1645.24	1652.62	1638.08	1594.38
45	1074.06	1163.63	1314.52	1416.72	1499.39	1571.55	1614.54	1621.71	1611.37	1563.25
48	1012.88	1121.33	1276.26	1375.90	1460.66	1538.76	1583.96	1585.31	1580.03	1529.17
51	939.90	1089.98	1218.67	1332.89	1420.12	1492.24	1547.28	1551.28	1541.99	1484.89
54	888.34	1032.11	1146.15	1291.47	1373.37	1444.34	1496.04	1511.60	1490.19	1436.90
57	834.02	963.10	1096.98	1233.64	1320.01	1390.36	1441.49	1457.70	1434.77	1388.08
60	778.41	898.85	1046.54	1166.18	1265.74	1330.30	1386.10	1394.69	1376.76	1338.58
63	732.35	850.05	973.08	1101.06	1211.76	1276.18	1331.80	1330.22	1320.03	1287.15
66	668.58	803.54	910.69	1041.28	1146.86	1218.24	1272.17	1268.09	1260.97	1227.84
69	603.37	734.33	853.06	971.39	1078.57	1150.28	1204.98	1209.71	1196.41	1161.72
72	542.48	667.37	798.93	900.05	1014.38	1085.49	1135.19	1151.18	1131.36	1094.38
75	481.10	602.01	733.02	841.81	944.96	1021.67	1060.31	1087.86	1064.61	1023.93
78	416.83	543.82	674.23	776.91	875.04	948.31	986.80	1017.63	997.24	948.62
81	353.86	481.43	598.75	691.79	791.72	872.42	906.70	931.06	912.72	874.44
84	285.73	420.30	526.97	631.67	732.15	815.24	843.60	862.26	843.03	821.05
87	231.10	346.27	469.61	569.55	659.27	734.57	766.54	802.60	779.60	735.76
90	179.64	292.64	393.05	501.08	576.91	645.52	687.12	751.42	710.42	656.19
93	93.89	160.76	211.66	274.66	327.36	385.88	346.99	355.87	322.64	366.25
96	14.31	18.15	29.48	32.16	43.05	55.73	42.74	30.95	34.51	50.51
99	0.11	0.14	0.85	0.73	3.98	8.42	7.89	3.90	7.17	10.38
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	1291.91	1291.91	1291.91	1291.91	1291.91	1291.91	1291.91
3	1353.13	1345.70	1334.72	1325.23	1312.35	1301.07	1289.61
6	1398.41	1382.03	1363.95	1343.76	1320.70	1297.61	1277.06
9	1438.92	1412.81	1385.70	1353.42	1323.44	1288.92	1259.54
12	1476.24	1445.33	1408.33	1368.22	1323.57	1279.82	1238.14
15	1511.97	1477.86	1431.29	1378.05	1320.89	1264.08	1212.66
18	1536.05	1495.21	1439.40	1378.27	1310.05	1246.61	1182.56
21	1552.94	1504.25	1444.69	1375.26	1298.74	1222.77	1147.38
24	1571.45	1513.63	1446.72	1369.02	1289.43	1198.87	1107.69
27	1581.70	1516.40	1447.49	1359.84	1269.19	1177.85	1065.03
30	1581.94	1508.05	1431.95	1335.98	1240.58	1149.50	1023.73
33	1572.64	1497.69	1409.96	1307.67	1203.69	1109.06	985.96
36	1560.73	1485.25	1392.75	1281.84	1174.10	1063.22	942.70
39	1546.42	1468.79	1367.36	1241.89	1142.45	1011.09	887.36
42	1520.22	1436.76	1337.38	1202.65	1091.84	957.64	833.15
45	1481.69	1395.24	1294.50	1160.31	1039.50	906.55	790.65
48	1440.11	1352.68	1248.77	1114.18	994.37	857.90	740.65
51	1402.73	1309.16	1202.99	1063.50	942.97	814.22	667.01
54	1360.75	1262.99	1150.44	1005.36	899.85	761.90	595.23
57	1312.04	1207.40	1106.98	959.76	846.93	702.88	549.11
60	1257.03	1152.98	1052.75	903.75	780.56	644.28	504.13
63	1201.08	1096.91	985.06	845.59	719.81	585.86	434.94
66	1140.33	1038.66	925.52	794.23	654.37	518.83	360.96
69	1075.04	976.90	861.40	729.23	599.24	459.01	306.74
72	1008.48	912.63	799.76	668.91	540.52	409.83	259.57
75	936.67	848.26	724.62	610.03	474.25	347.54	211.05
78	866.72	777.86	659.81	550.42	410.45	282.01	158.68

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

81	797.93	710.99	608.92	498.60	370.69	229.84	115.66
84	738.97	645.18	537.10	430.84	303.36	176.42	66.52
87	676.85	573.62	480.06	365.37	238.36	121.48	29.31
90	603.35	503.89	411.51	301.60	184.06	76.58	8.88
93	292.76	241.25	171.67	131.40	71.18	16.37	0.89
96	35.06	19.65	17.65	9.12	5.82	1.23	0.07
99	9.33	5.67	3.94	3.81	2.17	0.46	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
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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	383.92	N.A.	9.20
0-30	995.68	N.A.	23.90
0-40	1561.78	N.A.	37.50
0-60	2884.14	N.A.	69.20
0-80	3732.63	N.A.	89.60
0-90	4093.25	N.A.	98.20
10-90	3994.51	N.A.	95.90
20-40	1177.86	N.A.	28.30
20-50	1768.39	N.A.	42.40
40-70	1789.89	N.A.	43.00
60-80	848.50	N.A.	20.40
70-80	380.97	N.A.	9.10
80-90	360.61	N.A.	8.70
90-110	73.87	N.A.	1.80
90-120	73.87	N.A.	1.80
90-130	73.87	N.A.	1.80
90-150	73.87	N.A.	1.80
90-180	73.87	N.A.	1.80
110-180	0.00	N.A.	0.00
0-180	4167.12	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	98.73
10-20	285.19
20-30	611.75
30-40	566.10
40-50	590.53
50-60	731.83
60-70	467.53
70-80	380.97
80-90	360.61
90-100	73.56
100-110	0.31
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

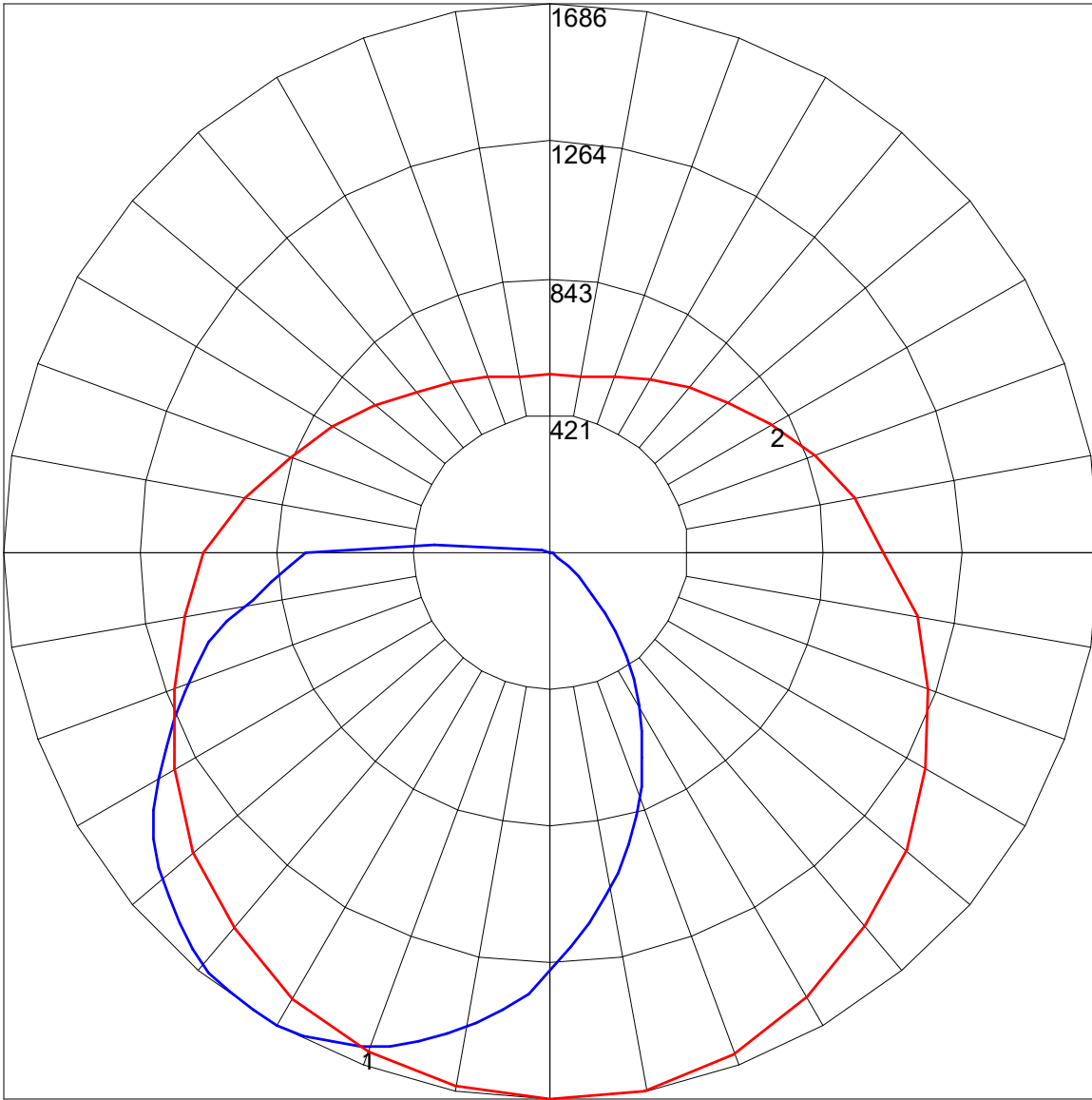
IES INDOOR REPORT
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	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 = 1685.92 Located At Horizontal Angle = 270, Vertical Angle = 30
1 - Vertical Plane Through Horizontal Angles (270 - 90) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (30) (Through Max. Cd.)