



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : MWW-4-LED-SS-CW.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST]LED-3606A  
[TESTLAB]LSI INDUSTRIES, INC  
[ISSUE DATE]3/08/16  
[TEST DATE]11/15/12  
[MANUFACTURER]LSI INDUSTRIES, INC  
[LUMCAT]MWW-4-LED-SS-CW  
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED  
[OTHER]TEST PROCEDURE: IESNA LM-79-08  
[OTHER]SCALED FROM ORIGINAL TEST DATA  
[SEARCH\_SOURCETYPE] LED  
[SEARCH\_APPLICATION] Indoor

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2750
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	95
Total Luminaire Watts	29
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	2.38
Spacing Criterion (90-270)	1.36
Spacing Criterion (Diagonal)	1.72
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.50 ft
Luminous Width (90-270)	4.00 ft
Luminous Height	0.00 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	8309	6739	3343
55	10211	8080	3415
65	13888	10095	3513
75	17472	15375	3591
85	22042	20181	4079

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**CANDELA TABULATION**

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>
<b>0.0</b>	585.80	585.80	585.80	585.80	585.80	585.80	585.80	585.80	585.80
<b>2.5</b>	593.92	597.40	598.56	598.56	600.88	581.16	569.56	559.12	552.16
<b>5.0</b>	634.52	634.52	627.56	613.64	599.72	566.08	541.72	524.32	516.20
<b>7.5</b>	677.44	673.96	656.56	627.56	598.56	549.84	516.20	494.16	484.88
<b>10.0</b>	723.84	714.56	684.40	641.48	596.24	533.60	491.84	472.12	462.84
<b>12.5</b>	769.08	756.32	714.56	653.08	591.60	516.20	473.28	455.88	448.92
<b>15.0</b>	813.16	796.92	742.40	664.68	585.80	499.96	458.20	444.28	436.16
<b>17.5</b>	856.08	836.36	770.24	673.96	578.84	483.72	447.76	431.52	423.40
<b>20.0</b>	895.52	872.32	795.76	683.24	571.88	468.64	436.16	417.60	408.32
<b>22.5</b>	929.16	903.64	818.96	691.36	562.60	454.72	423.40	403.68	394.40
<b>25.0</b>	958.16	930.32	838.68	696.00	553.32	441.96	409.48	388.60	379.32
<b>27.5</b>	982.52	952.36	854.92	700.64	542.88	429.20	395.56	379.32	370.04
<b>30.0</b>	1005.72	972.08	867.68	701.80	531.28	417.60	381.64	364.24	356.12
<b>32.5</b>	1025.44	989.48	876.96	702.96	518.52	403.68	371.20	349.16	341.04
<b>35.0</b>	1042.84	1004.56	882.76	700.64	504.60	390.92	354.96	334.08	327.12
<b>37.5</b>	1057.92	1017.32	886.24	694.84	489.52	378.16	339.88	320.16	313.20
<b>40.0</b>	1073.00	1026.60	887.40	689.04	474.44	366.56	323.64	306.24	298.12
<b>42.5</b>	1085.76	1037.04	887.40	679.76	457.04	349.16	307.40	290.00	270.28
<b>45.0</b>	1092.72	1045.16	886.24	668.16	439.64	332.92	291.16	262.16	242.44
<b>47.5</b>	1097.36	1047.48	882.76	655.40	422.24	314.36	276.08	234.32	215.76
<b>50.0</b>	1096.20	1045.16	878.12	640.32	402.52	296.96	258.68	207.64	191.40
<b>52.5</b>	1093.88	1039.36	872.32	625.24	385.12	278.40	230.84	182.12	165.88
<b>55.0</b>	1089.24	1032.40	861.88	607.84	364.24	259.84	204.16	157.76	142.68
<b>57.5</b>	1085.76	1024.28	847.96	589.28	345.68	240.12	177.48	134.56	120.64
<b>60.0</b>	1084.60	1016.16	830.56	570.72	322.48	221.56	151.96	112.52	100.92
<b>62.5</b>	1088.08	1012.68	812.00	551.00	299.28	201.84	126.44	100.92	91.64
<b>65.0</b>	1091.56	1011.52	793.44	531.28	276.08	182.12	104.40	82.36	70.76
<b>67.5</b>	1096.20	1011.52	776.04	509.24	251.72	154.28	93.96	62.64	53.36
<b>70.0</b>	1089.24	1010.36	764.44	484.88	226.20	124.12	74.24	45.24	35.96
<b>72.5</b>	1012.68	984.84	752.84	455.88	199.52	99.76	54.52	29.00	20.88
<b>75.0</b>	841.00	857.24	740.08	423.40	172.84	82.36	37.12	13.92	8.12
<b>77.5</b>	676.28	687.88	680.92	395.56	145.00	59.16	20.88	8.12	5.80
<b>80.0</b>	548.68	552.16	541.72	375.84	116.00	39.44	9.28	5.80	4.64
<b>82.5</b>	443.12	440.80	422.24	354.96	91.64	22.04	6.96	5.80	4.64
<b>85.0</b>	357.28	351.48	327.12	270.28	66.12	10.44	5.80	5.80	4.64
<b>87.5</b>	276.08	265.64	235.48	177.48	37.12	6.96	5.80	5.80	4.64
<b>90.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	227.00	N.A.	8.30
0-30	511.78	N.A.	18.60
0-40	892.43	N.A.	32.50
0-60	1795.00	N.A.	65.30
0-80	2592.44	N.A.	94.30
0-90	2749.67	N.A.	100.00
10-90	2693.62	N.A.	98.00
20-40	665.43	N.A.	24.20
20-50	1108.64	N.A.	40.30
40-70	1344.05	N.A.	48.90
60-80	797.44	N.A.	29.00
70-80	355.95	N.A.	12.90
80-90	157.23	N.A.	5.70
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	2749.67	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	56.05
10-20	170.94
20-30	284.78
30-40	380.65
40-50	443.20
50-60	459.36
60-70	441.49
70-80	355.95
80-90	157.23
90-100	0.00
100-110	0.00
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

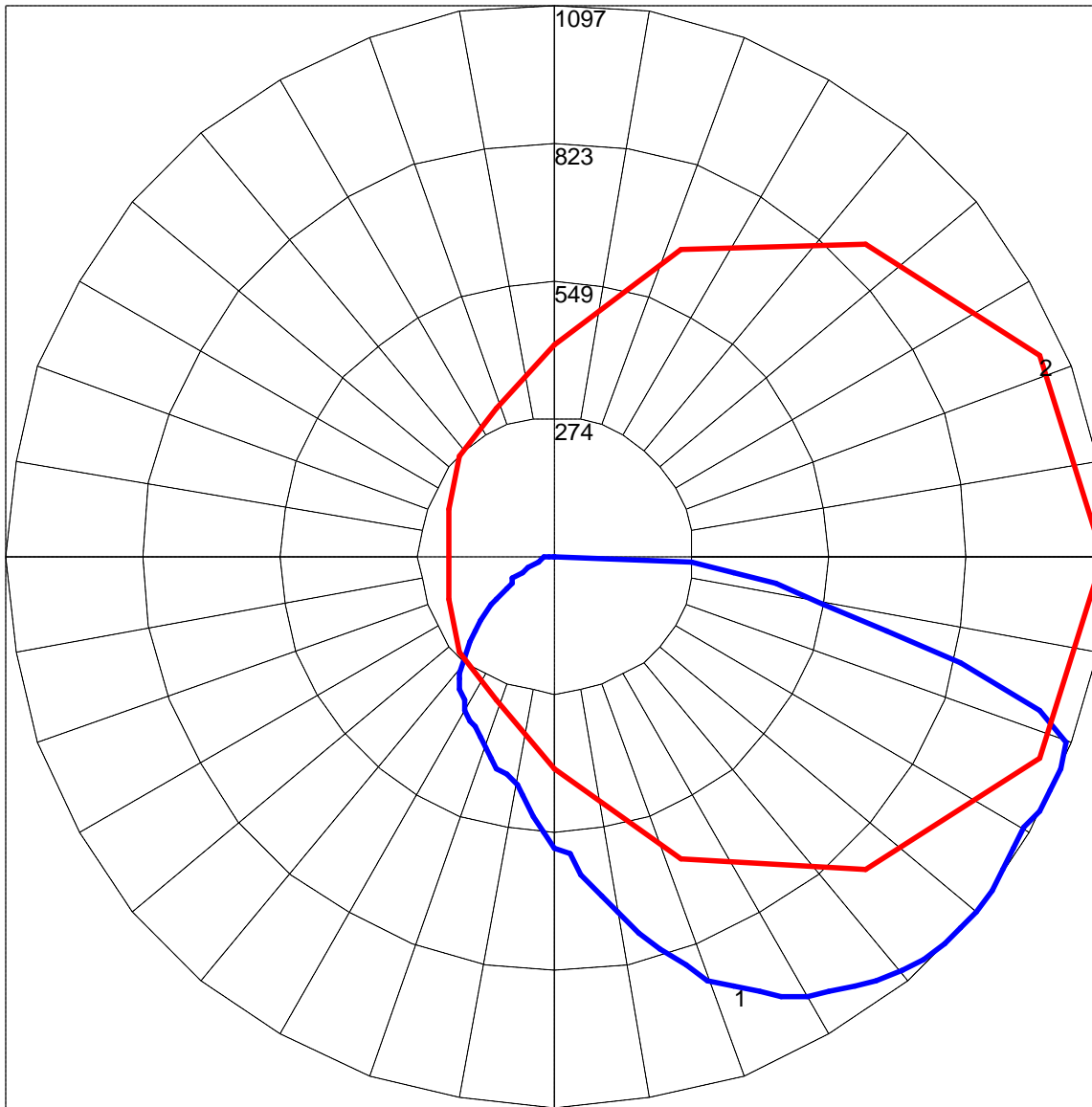
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	106	99	94	89	103	97	92	88	93	89	85	89	85	82	85	82	80	77
2	94	84	76	69	91	82	75	68	79	72	67	75	70	65	72	67	63	61
3	85	72	63	55	82	71	62	55	68	60	54	65	58	53	62	56	52	49
4	77	63	53	45	74	62	52	45	59	51	44	57	49	44	54	48	43	41
5	70	56	46	38	68	55	45	38	52	44	37	50	43	37	48	42	36	34
6	64	50	40	33	62	49	39	32	47	38	32	45	37	32	43	37	31	29
7	59	45	35	28	58	44	35	28	42	34	28	41	33	28	39	33	27	25
8	55	40	31	25	54	40	31	25	38	30	25	37	30	24	36	29	24	22
9	51	37	28	22	50	36	28	22	35	27	22	34	27	22	33	26	22	20
10	48	34	25	20	47	33	25	20	32	25	20	31	24	20	30	24	19	18

POLAR GRAPH



Maximum Candela = 1097.36 Located At Horizontal Angle = 0, Vertical Angle = 47.5  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (47.5) (Through Max. Cd.)