



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : MWW-2-LED-SS-WW.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST]LED-3735A  
[TESTLAB]LSI INDUSTRIES, INC  
[ISSUE DATE]03/8/16  
[TEST DATE]01/03/13  
[MANUFACTURER]LSI INDUSTRIES, INC  
[LUMEN CATEGORY]MWW-2-LED-SS-WW  
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED  
[OTHER]TEST PROCEDURE: IESNA LM-79-08  
[OTHER]SCALED FROM ORIGINAL TEST DATA  
[SEARCH SOURCE TYPE] LED  
[SEARCH APPLICATION] Indoor

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2046
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	71
Total Luminaire Watts	29
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	2.84
Spacing Criterion (90-270)	1.36
Spacing Criterion (Diagonal)	1.92
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.50 ft
Luminous Width (90-270)	2.00 ft
Luminous Height	0.00 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	13478	9809	4146
55	17377	12962	4241
65	23732	16618	4339
75	31714	24822	4338
85	41364	34637	5153

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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>	357.28	357.28	357.28	357.28	357.28	357.28	357.28	357.28	357.28
<b>2.5</b>	351.48	353.80	357.28	361.92	365.40	361.92	356.12	351.48	350.32
<b>5.0</b>	372.36	371.20	367.72	361.92	365.40	361.92	354.96	349.16	348.00
<b>7.5</b>	395.56	393.24	383.96	368.88	364.24	360.76	352.64	343.36	341.04
<b>10.0</b>	421.08	416.44	400.20	375.84	361.92	357.28	346.84	336.40	334.08
<b>12.5</b>	450.08	441.96	417.60	382.80	359.60	353.80	341.04	328.28	323.64
<b>15.0</b>	480.24	468.64	435.00	389.76	356.12	349.16	331.76	319.00	313.20
<b>17.5</b>	513.88	497.64	453.56	396.72	352.64	342.20	323.64	307.40	302.76
<b>20.0</b>	547.52	528.96	473.28	402.52	348.00	336.40	313.20	296.96	291.16
<b>22.5</b>	577.68	560.28	493.00	408.32	343.36	328.28	303.92	285.36	279.56
<b>25.0</b>	611.32	585.80	513.88	414.12	337.56	320.16	292.32	273.76	266.80
<b>27.5</b>	644.96	615.96	534.76	418.76	331.76	310.88	280.72	262.16	256.36
<b>30.0</b>	677.44	644.96	553.32	423.40	324.80	301.60	270.28	250.56	244.76
<b>32.5</b>	709.92	673.96	569.56	428.04	317.84	291.16	257.52	238.96	233.16
<b>35.0</b>	743.56	702.96	584.64	431.52	309.72	279.56	245.92	227.36	221.56
<b>37.5</b>	778.36	731.96	600.88	435.00	301.60	269.12	234.32	216.92	211.12
<b>40.0</b>	814.32	762.12	615.96	437.32	292.32	256.36	221.56	205.32	200.68
<b>42.5</b>	850.28	792.28	631.04	439.64	283.04	243.60	209.96	193.72	190.24
<b>45.0</b>	886.24	820.12	644.96	439.64	272.60	230.84	197.20	183.28	179.80
<b>47.5</b>	908.28	849.12	657.72	438.48	262.16	216.92	185.60	172.84	164.72
<b>50.0</b>	918.72	864.20	670.48	436.16	250.56	203.00	172.84	157.76	147.32
<b>52.5</b>	924.52	868.84	682.08	432.68	238.96	189.08	161.24	140.36	129.92
<b>55.0</b>	926.84	868.84	691.36	429.20	226.20	175.16	149.64	122.96	113.68
<b>57.5</b>	925.68	865.36	691.36	423.40	213.44	160.08	133.40	106.72	98.60
<b>60.0</b>	924.52	859.56	682.08	417.60	199.52	145.00	117.16	90.48	93.96
<b>62.5</b>	929.16	856.08	669.32	411.80	185.60	131.08	98.60	85.84	80.04
<b>65.0</b>	932.64	856.08	653.08	403.68	170.52	117.16	93.96	71.92	64.96
<b>67.5</b>	934.96	854.92	636.84	395.56	155.44	103.24	77.72	58.00	52.20
<b>70.0</b>	925.68	850.28	624.08	383.96	139.20	93.96	62.64	45.24	39.44
<b>72.5</b>	871.16	822.44	612.48	366.56	121.80	82.36	48.72	32.48	27.84
<b>75.0</b>	763.28	741.24	597.40	343.36	104.40	64.96	35.96	20.88	16.24
<b>77.5</b>	647.28	628.72	549.84	319.00	91.64	48.72	23.20	10.44	5.80
<b>80.0</b>	538.24	520.84	460.52	298.12	77.72	34.80	12.76	2.32	1.16
<b>82.5</b>	435.00	418.76	372.36	273.76	59.16	20.88	4.64	2.32	1.16
<b>85.0</b>	335.24	323.64	280.72	212.28	41.76	10.44	3.48	2.32	1.16
<b>87.5</b>	233.16	225.04	194.88	139.20	25.52	4.64	2.32	1.16	1.16
<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	143.06	N.A.	7.00
0-30	327.05	N.A.	16.00
0-40	583.58	N.A.	28.50
0-60	1259.52	N.A.	61.60
0-80	1911.39	N.A.	93.40
0-90	2046.2	N.A.	100.00
10-90	2011.35	N.A.	98.30
20-40	440.52	N.A.	21.50
20-50	761.13	N.A.	37.20
40-70	1030.38	N.A.	50.40
60-80	651.86	N.A.	31.90
70-80	297.43	N.A.	14.50
80-90	134.81	N.A.	6.60
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	2046.2	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	34.85
10-20	108.21
20-30	184.00
30-40	256.52
40-50	320.61
50-60	355.33
60-70	354.43
70-80	297.43
80-90	134.81
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

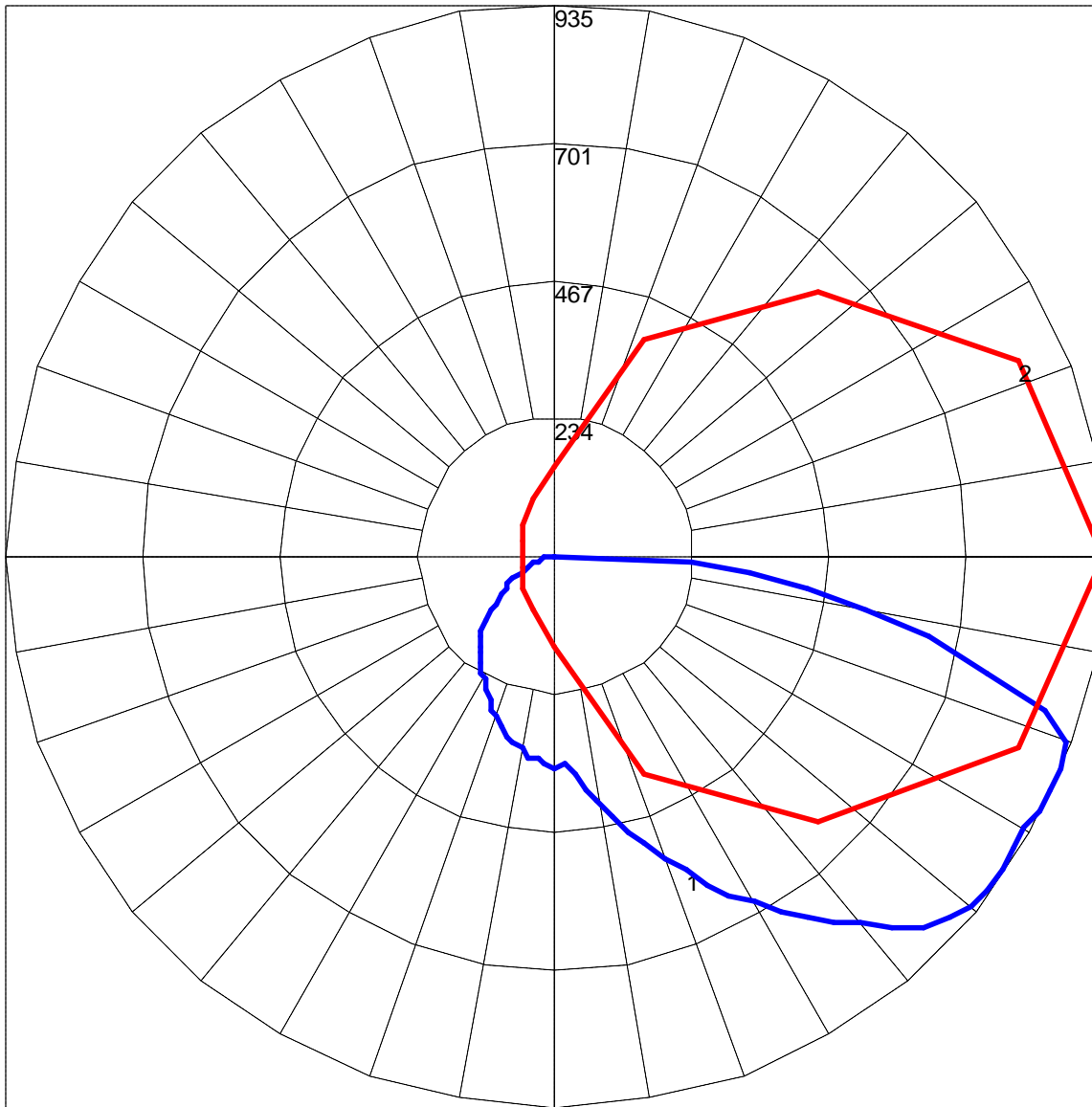
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	105	98	93	87	102	96	91	86	92	87	83	87	84	80	84	81	78	76
2	93	83	74	67	90	81	73	66	77	70	64	73	68	63	70	65	61	59
3	83	70	61	53	81	69	60	52	66	58	51	63	56	50	60	54	49	47
4	75	61	51	43	73	60	50	42	57	48	42	54	47	41	52	46	40	38
5	69	54	43	36	66	52	43	35	50	41	35	48	40	34	46	39	34	31
6	63	48	37	30	61	47	37	30	45	36	30	43	35	29	41	34	29	27
7	58	43	33	26	56	42	32	26	40	32	26	39	31	25	37	30	25	23
8	54	39	29	23	52	38	29	23	36	28	22	35	28	22	34	27	22	20
9	50	35	26	20	48	35	26	20	33	25	20	32	25	20	31	24	20	18
10	47	32	24	18	45	32	23	18	31	23	18	30	23	18	29	22	17	16

POLAR GRAPH



Maximum Candela = 934.96 Located At Horizontal Angle = 0, Vertical Angle = 67.5  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)