



IES INDOOR REPORT
PHOTOMETRIC FILENAME : MWW-4-LED-HO-WW.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-3608A
[TESTLAB]LSI INDUSTRIES, INC
[ISSUE DATE]3/08/16
[TEST DATE]11/16/12
[MANUFACTURER]LSI INDUSTRIES, INC
[LUMCAT]MWW-4-LED-HO-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_SOURCETYPE] LED
[_SEARCH_APPLICATION] Indoor

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3477
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	77
Total Luminaire Watts	45
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	2.52
Spacing Criterion (90-270)	1.36
Spacing Criterion (Diagonal)	1.76
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	10902	8459	4005
55	13538	10461	4045
65	18419	13135	4177
75	26099	19978	4290
85	37643	31059	4509

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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>
0.0	701.80	701.80	701.80	701.80	701.80	701.80	701.80	701.80	701.80
2.5	711.08	713.40	716.88	719.20	720.36	700.64	684.40	672.80	664.68
5.0	754.00	752.84	747.04	734.28	719.20	684.40	655.40	636.84	626.40
7.5	800.40	794.60	777.20	749.36	716.88	667.00	627.56	600.88	589.28
10.0	846.80	837.52	807.36	763.28	712.24	648.44	598.56	568.40	556.80
12.5	896.68	881.60	838.68	774.88	707.60	629.88	571.88	540.56	528.96
15.0	946.56	926.84	868.84	786.48	700.64	610.16	547.52	519.68	511.56
17.5	996.44	970.92	899.00	796.92	692.52	589.28	525.48	505.76	496.48
20.0	1044.00	1013.84	926.84	805.04	684.40	568.40	510.40	490.68	481.40
22.5	1089.24	1054.44	954.68	812.00	673.96	548.68	495.32	474.44	464.00
25.0	1133.32	1092.72	979.04	818.96	662.36	527.80	480.24	458.20	447.76
27.5	1177.40	1129.84	1001.08	822.44	649.60	508.08	465.16	439.64	429.20
30.0	1221.48	1168.12	1020.80	824.76	635.68	489.52	446.60	422.24	410.64
32.5	1266.72	1205.24	1039.36	824.76	620.60	473.28	429.20	403.68	393.24
35.0	1310.80	1242.36	1056.76	822.44	604.36	457.04	410.64	390.92	380.48
37.5	1352.56	1278.32	1071.84	818.96	585.80	439.64	390.92	373.52	363.08
40.0	1387.36	1310.80	1086.92	813.16	567.24	422.24	378.16	354.96	345.68
42.5	1415.20	1337.48	1100.84	805.04	547.52	403.68	358.44	336.40	330.60
45.0	1433.76	1357.20	1112.44	794.60	526.64	389.76	338.72	320.16	300.44
47.5	1443.04	1367.64	1121.72	783.00	503.44	368.88	319.00	288.84	269.12
50.0	1445.36	1368.80	1125.20	769.08	480.24	346.84	300.44	258.68	240.12
52.5	1446.52	1366.48	1125.20	754.00	455.88	324.80	280.72	228.52	209.96
55.0	1444.20	1359.52	1115.92	738.92	431.52	301.60	250.56	198.36	182.12
57.5	1440.72	1350.24	1099.68	721.52	404.84	279.56	219.24	170.52	154.28
60.0	1439.56	1342.12	1078.80	705.28	382.80	255.20	189.08	142.68	127.60
62.5	1445.36	1336.32	1055.60	687.88	356.12	232.00	160.08	116.00	102.08
65.0	1447.68	1335.16	1032.40	668.16	328.28	208.80	131.08	95.12	88.16
67.5	1450.00	1331.68	1010.36	646.12	299.28	184.44	103.24	77.72	66.12
70.0	1447.68	1328.20	994.12	618.28	269.12	151.96	89.32	54.52	42.92
72.5	1400.12	1309.64	977.88	583.48	238.96	118.32	64.96	32.48	22.04
75.0	1256.28	1215.68	961.64	545.20	206.48	97.44	41.76	12.76	4.64
77.5	1073.00	1047.48	916.40	510.40	172.84	69.60	20.88	3.48	2.32
80.0	904.80	879.28	785.32	483.72	139.20	44.08	5.80	1.16	1.16
82.5	754.00	726.16	639.16	457.04	104.40	22.04	2.32	1.16	1.16
85.0	610.16	584.64	503.44	380.48	73.08	5.80	2.32	1.16	1.16
87.5	465.16	444.28	378.16	264.48	35.96	3.48	2.32	1.16	1.16
90.0	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	269.10	N.A.	7.70
0-30	604.96	N.A.	17.40
0-40	1062.04	N.A.	30.50
0-60	2194.12	N.A.	63.10
0-80	3240.31	N.A.	93.20
0-90	3476.73	N.A.	100.00
10-90	3409.6	N.A.	98.10
20-40	792.93	N.A.	22.80
20-50	1342.47	N.A.	38.60
40-70	1698.03	N.A.	48.80
60-80	1046.19	N.A.	30.10
70-80	480.25	N.A.	13.80
80-90	236.42	N.A.	6.80
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	3476.73	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	67.13
10-20	201.97
20-30	335.86
30-40	457.08
40-50	549.54
50-60	582.55
60-70	565.94
70-80	480.25
80-90	236.42
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

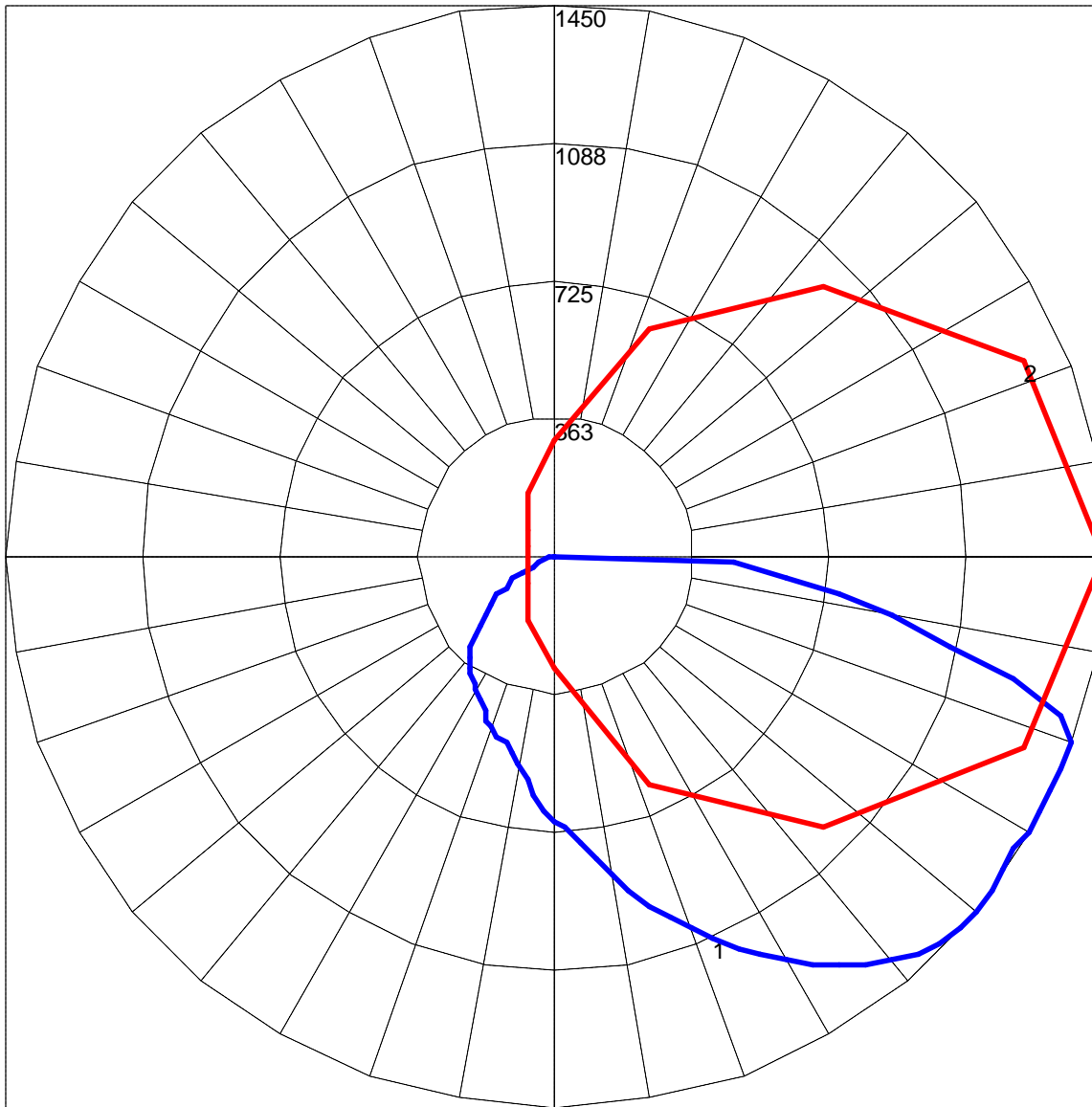
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	99	93	88	102	96	91	86	92	87	84	88	84	81	84	81	78	76
2	93	83	75	67	91	81	73	67	77	71	65	74	68	63	71	66	62	59
3	84	71	61	54	81	70	60	53	66	59	52	63	57	51	61	55	50	48
4	76	62	52	44	73	61	51	44	58	50	43	55	48	42	53	47	42	39
5	69	55	44	37	67	53	44	37	51	43	36	49	42	36	47	40	35	33
6	64	49	39	31	62	48	38	31	46	37	31	44	36	31	42	35	30	28
7	59	44	34	27	57	43	34	27	41	33	27	40	32	27	38	31	26	24
8	54	40	30	24	53	39	30	24	37	29	24	36	29	23	35	28	23	21
9	51	36	27	21	49	35	27	21	34	26	21	33	26	21	32	25	21	19
10	47	33	25	19	46	33	24	19	32	24	19	31	24	19	30	23	19	17

POLAR GRAPH



Maximum Candela = 1450 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.)