



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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-3566A
[TESTLAB]LSI INDUSTRIES, INC
[ISSUE DATE]3/08/16
[TEST DATE]11/01/12
[MANUFACTURER]LSI INDUSTRIES, INC
[LUMCAT]MWW-4-LED-HO-NW
[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	3703
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	84
Total Luminaire Watts	44
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	2.66
Spacing Criterion (90-270)	1.36
Spacing Criterion (Diagonal)	1.88
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	12173	9535	4093
55	14963	11712	4176
65	20308	14508	4369
75	22412	21400	4579
85	24403	23831	4938

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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	700.64	700.64	700.64	700.64	700.64	700.64	700.64	700.64	700.64
2.5	712.24	716.88	718.04	718.04	720.36	698.32	680.92	668.16	661.20
5.0	759.80	759.80	750.52	734.28	719.20	679.76	650.76	631.04	622.92
7.5	813.16	807.36	785.32	750.52	716.88	662.36	625.24	613.64	609.00
10.0	871.16	860.72	821.28	766.76	714.56	644.96	617.12	605.52	599.72
12.5	936.12	918.72	860.72	781.84	708.76	627.56	609.00	593.92	588.12
15.0	1002.24	977.88	901.32	796.92	702.96	618.28	598.56	581.16	573.04
17.5	1066.04	1037.04	941.92	812.00	696.00	609.00	584.64	566.08	556.80
20.0	1124.04	1091.56	982.52	825.92	687.88	599.72	570.72	549.84	540.56
22.5	1178.56	1141.44	1020.80	838.68	677.44	588.12	555.64	532.44	522.00
25.0	1231.92	1189.00	1054.44	850.28	667.00	576.52	538.24	515.04	504.60
27.5	1288.76	1236.56	1084.60	861.88	654.24	562.60	520.84	497.64	487.20
30.0	1349.08	1285.28	1111.28	871.16	641.48	546.36	502.28	479.08	469.80
32.5	1412.88	1337.48	1135.64	876.96	627.56	530.12	483.72	460.52	451.24
35.0	1472.04	1390.84	1160.00	881.60	611.32	512.72	465.16	441.96	432.68
37.5	1521.92	1439.56	1185.52	881.60	595.08	494.16	445.44	423.40	415.28
40.0	1563.68	1479.00	1211.04	880.44	577.68	474.44	424.56	406.00	397.88
42.5	1586.88	1510.32	1235.40	875.80	557.96	453.56	404.84	387.44	380.48
45.0	1600.80	1525.40	1253.96	867.68	538.24	431.52	387.44	367.72	345.68
47.5	1606.60	1530.04	1266.72	859.56	516.20	409.48	370.04	331.76	310.88
50.0	1607.76	1528.88	1272.52	847.96	493.00	388.60	350.32	296.96	276.08
52.5	1603.12	1520.76	1264.40	836.36	469.80	367.72	323.64	263.32	243.60
55.0	1596.16	1509.16	1249.32	823.60	445.44	343.36	287.68	230.84	212.28
57.5	1591.52	1496.40	1227.28	809.68	419.92	319.00	251.72	199.52	183.28
60.0	1593.84	1484.80	1199.44	793.44	395.56	294.64	218.08	169.36	154.28
62.5	1593.84	1480.16	1170.44	774.88	372.36	269.12	185.60	140.36	127.60
65.0	1596.16	1474.36	1140.28	752.84	343.36	243.60	154.28	113.68	102.08
67.5	1589.20	1467.40	1115.92	725.00	314.36	214.60	125.28	93.96	87.00
70.0	1517.28	1443.04	1096.20	685.56	284.20	175.16	97.44	74.24	63.80
72.5	1316.60	1314.28	1074.16	642.64	252.88	138.04	82.36	51.04	41.76
75.0	1078.80	1090.40	1030.08	596.24	220.40	103.24	58.00	30.16	20.88
77.5	889.72	887.40	874.64	555.64	185.60	82.36	34.80	10.44	5.80
80.0	727.32	720.36	693.68	523.16	149.64	55.68	13.92	6.96	5.80
82.5	559.12	557.96	533.60	470.96	110.20	31.32	6.96	2.32	1.16
85.0	395.56	396.72	386.28	343.36	80.04	10.44	3.48	2.32	1.16
87.5	264.48	258.68	248.24	214.60	40.60	4.64	3.48	2.32	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	279.50	N.A.	7.50
0-30	641.65	N.A.	17.30
0-40	1144.81	N.A.	30.90
0-60	2404.31	N.A.	64.90
0-80	3513.03	N.A.	94.90
0-90	3703.07	N.A.	100.00
10-90	3635.43	N.A.	98.20
20-40	865.32	N.A.	23.40
20-50	1476.55	N.A.	39.90
40-70	1887.27	N.A.	51.00
60-80	1108.73	N.A.	29.90
70-80	480.94	N.A.	13.00
80-90	190.03	N.A.	5.10
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	3703.07	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	67.64
10-20	211.86
20-30	362.15
30-40	503.16
40-50	611.24
50-60	648.25
60-70	627.78
70-80	480.95
80-90	190.03
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

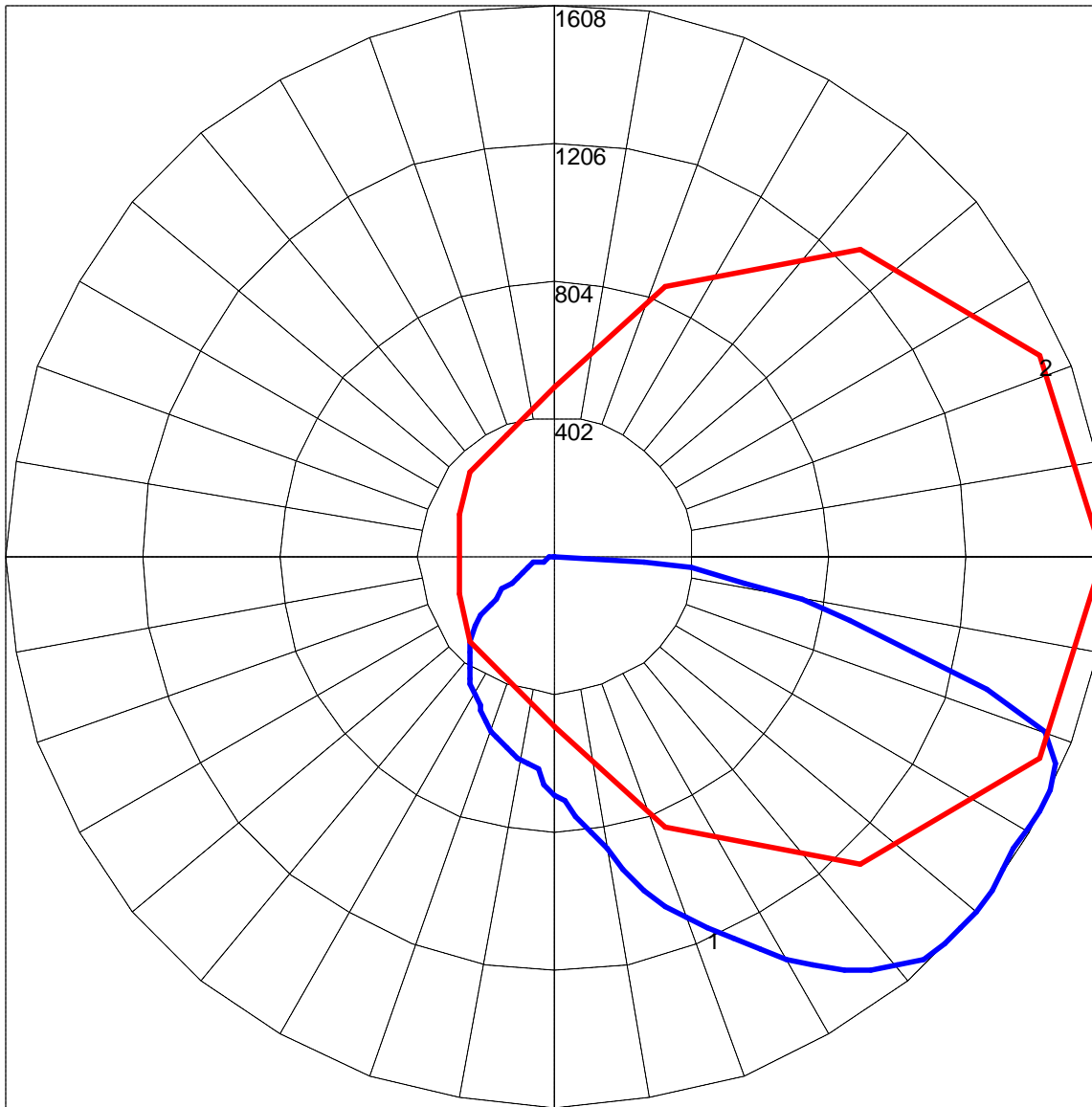
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	100	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	78	72	66	75	70	65	72	67	63	61
3	85	72	62	55	82	70	61	54	67	60	53	64	58	52	62	56	51	49
4	77	63	53	45	74	61	52	44	59	50	44	56	49	43	54	48	42	40
5	70	55	45	37	67	54	44	37	52	43	37	50	42	36	48	41	36	33
6	64	49	39	32	62	48	39	32	46	38	31	44	37	31	43	36	31	28
7	59	44	34	28	57	43	34	27	42	33	27	40	32	27	39	32	27	24
8	55	40	30	24	53	39	30	24	38	30	24	36	29	24	35	28	23	21
9	51	36	27	21	49	36	27	21	34	27	21	33	26	21	32	26	21	19
10	48	33	25	19	46	33	25	19	32	24	19	31	24	19	30	23	19	17

POLAR GRAPH



Maximum Candela = 1607.76 Located At Horizontal Angle = 0, Vertical Angle = 50
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (50) (Through Max. Cd.)