



IES INDOOR REPORT
PHOTOMETRIC FILENAME : W444-LED-HO-NW.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] LED-4270
 [TESTLAB] LSI INDUSTRIES, INC.
 [TESTDATE] 07/17/13
 [ISSUE DATE] 05/02/23
 [MANUFAC] LSI INDUSTRIES, INC.
 [LUMCAT] W444-LED-HO-NW
 [TEST PROCEDURE] IESNA LM-79-19
 [ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
 [FACTORED] SCALED FROM ORIGINAL TEST DATA
 [SEARCH_SOURCETYPE] LED
 [SEARCH_APPLICATION] Indoor
 [SEARCH_COLORTEMP] 4000

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5267
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	122
Total Luminaire Watts	43
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	1.22
Spacing Criterion (Diagonal)	1.34
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.33 ft
Luminous Height	0.00 ft



LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	11921	12067	12279
55	9640	11288	12136
65	7239	10759	11822
75	5241	11314	12327
85	4831	20181	22113

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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>
0.0	1700.56	1700.56	1700.56	1700.56	1700.56
2.5	1751.60	1716.80	1699.40	1679.68	1666.92
5.0	1748.12	1713.32	1699.40	1682.00	1669.24
7.5	1740.00	1706.36	1695.92	1678.52	1668.08
10.0	1727.24	1697.08	1688.96	1672.72	1659.96
12.5	1711.00	1684.32	1676.20	1661.12	1648.36
15.0	1691.28	1665.76	1659.96	1643.72	1630.96
17.5	1666.92	1643.72	1636.76	1619.36	1606.60
20.0	1637.92	1618.20	1608.92	1589.20	1575.28
22.5	1604.28	1585.72	1574.12	1552.08	1537.00
25.0	1564.84	1548.60	1533.52	1508.00	1491.76
27.5	1520.76	1505.68	1487.12	1459.28	1443.04
30.0	1470.88	1458.12	1434.92	1405.92	1390.84
32.5	1415.20	1403.60	1379.24	1351.40	1337.48
35.0	1353.72	1343.28	1317.76	1294.56	1282.96
37.5	1285.28	1278.32	1253.96	1237.72	1229.60
40.0	1211.04	1207.56	1189.00	1182.04	1178.56
42.5	1129.84	1132.16	1124.04	1126.36	1127.52
45.0	1045.16	1053.28	1057.92	1073.00	1076.48
47.5	955.84	972.08	992.96	1018.48	1025.44
50.0	865.36	890.88	928.00	965.12	973.24
52.5	774.88	810.84	865.36	909.44	918.72
55.0	685.56	731.96	802.72	853.76	863.04
57.5	599.72	655.40	741.24	795.76	803.88
60.0	519.68	583.48	680.92	736.60	743.56
62.5	444.28	515.04	621.76	676.28	682.08
65.0	379.32	451.24	563.76	615.96	619.44
67.5	320.16	394.40	508.08	556.80	559.12
70.0	263.32	344.52	454.72	498.80	498.80
72.5	213.44	295.80	404.84	443.12	444.28
75.0	168.20	252.88	363.08	395.56	395.56
77.5	128.76	213.44	321.32	352.64	350.32
80.0	106.72	179.80	283.04	310.88	308.56
82.5	76.56	149.64	249.40	272.60	271.44
85.0	52.20	126.44	218.08	240.12	238.96
87.5	30.16	111.36	189.08	211.12	208.80
90.0	11.60	90.48	164.72	186.76	184.44
92.5	5.80	81.20	151.96	172.84	171.68
95.0	5.80	77.72	143.84	163.56	163.56
97.5	5.80	74.24	136.88	156.60	156.60
100.0	5.80	71.92	132.24	151.96	150.80
102.5	5.80	69.60	126.44	147.32	146.16
105.0	5.80	67.28	124.12	142.68	143.84
107.5	4.64	63.80	122.96	138.04	139.20
110.0	4.64	62.64	118.32	134.56	135.72
112.5	5.80	60.32	118.32	129.92	132.24
115.0	4.64	58.00	114.84	126.44	128.76
117.5	4.64	55.68	110.20	121.80	124.12
120.0	4.64	53.36	104.40	121.80	120.64
122.5	4.64	51.04	100.92	121.80	120.64
125.0	4.64	48.72	96.28	117.16	116.00
127.5	5.80	46.40	90.48	111.36	117.16
130.0	5.80	44.08	85.84	106.72	111.36
132.5	5.80	41.76	81.20	100.92	105.56

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CANDELA TABULATION - (Cont.)

135.0	5.80	39.44	76.56	96.28	100.92
137.5	5.80	37.12	70.76	90.48	95.12
140.0	5.80	33.64	66.12	84.68	89.32
142.5	5.80	31.32	61.48	78.88	83.52
145.0	5.80	29.00	56.84	73.08	78.88
147.5	5.80	26.68	52.20	67.28	71.92
150.0	5.80	24.36	47.56	61.48	66.12
152.5	5.80	22.04	42.92	55.68	59.16
155.0	6.96	19.72	38.28	49.88	53.36
157.5	6.96	17.40	33.64	45.24	48.72
160.0	6.96	16.24	29.00	39.44	42.92
162.5	6.96	13.92	25.52	34.80	37.12
165.0	6.96	12.76	20.88	29.00	31.32
167.5	6.96	10.44	17.40	24.36	25.52
170.0	6.96	9.28	13.92	19.72	20.88
172.5	6.96	8.12	11.60	15.08	16.24
175.0	6.96	6.96	8.12	10.44	10.44
177.5	6.96	5.80	5.80	6.96	6.96
180.0	5.80	5.80	5.80	5.80	5.80

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	629.45	N.A.	12.00
0-30	1333.3	N.A.	25.30
0-40	2157.37	N.A.	41.00
0-60	3683.31	N.A.	69.90
0-80	4557.61	N.A.	86.50
0-90	4759.83	N.A.	90.40
10-90	4597.9	N.A.	87.30
20-40	1527.91	N.A.	29.00
20-50	2346.42	N.A.	44.60
40-70	2055.56	N.A.	39.00
60-80	874.31	N.A.	16.60
70-80	344.68	N.A.	6.50
80-90	202.22	N.A.	3.80
90-110	237.79	N.A.	4.50
90-120	328.42	N.A.	6.20
90-130	400.70	N.A.	7.60
90-150	483.79	N.A.	9.20
90-180	507.09	N.A.	9.60
110-180	269.30	N.A.	5.10
0-180	5266.92	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	161.93
10-20	467.53
20-30	703.85
30-40	824.07
40-50	818.51
50-60	707.43
60-70	529.63
70-80	344.68
80-90	202.22
90-100	129.64
100-110	108.15
110-120	90.62
120-130	72.29
130-140	51.36
140-150	31.73
150-160	16.25
160-170	6.04
170-180	1.01

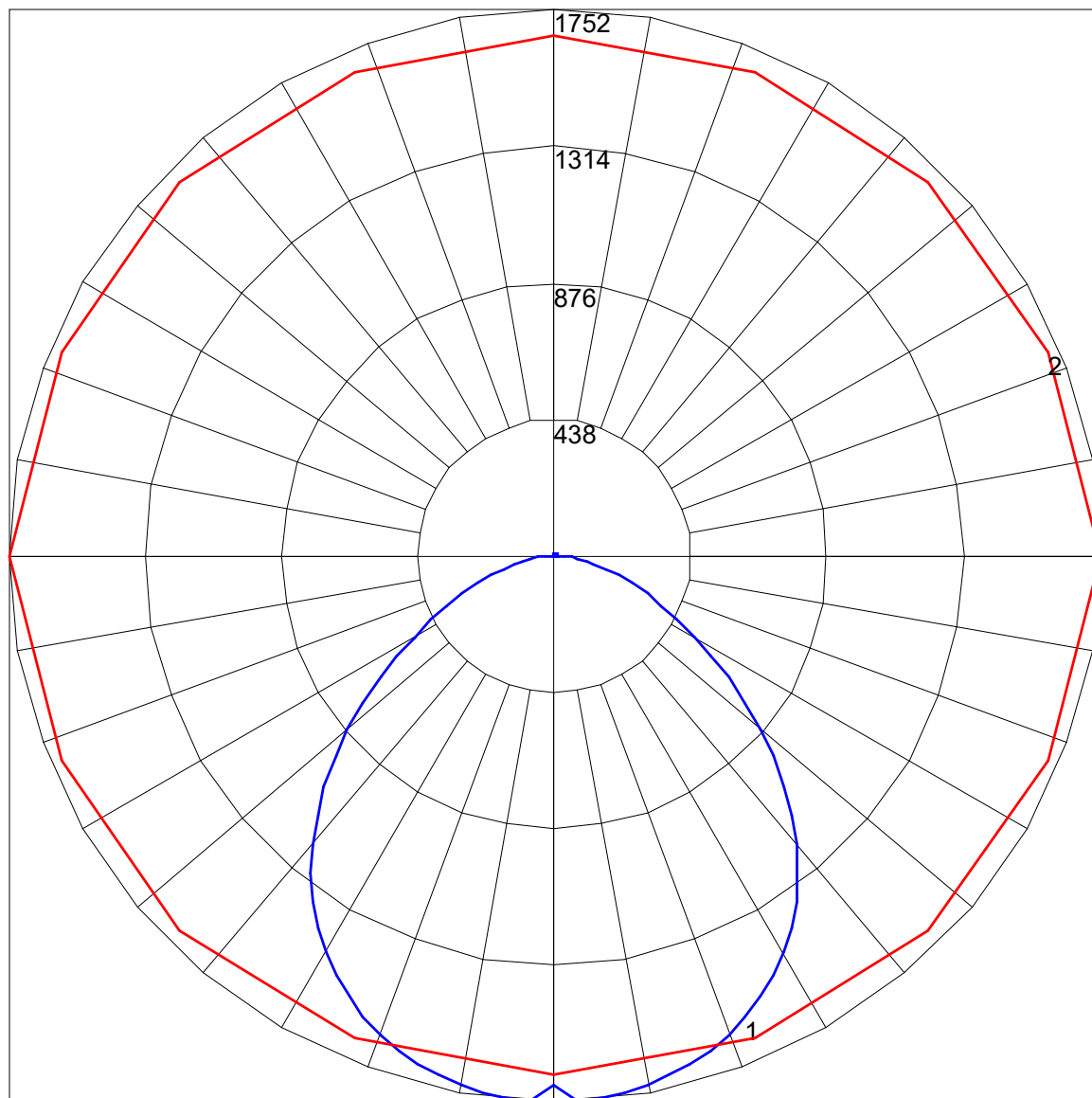
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	117	117	117	117	113	113	113	113	106	106	106	99	99	99	93	93	93	90
1	106	101	96	92	102	98	94	90	92	88	85	86	83	81	81	79	77	74
2	96	88	81	75	93	85	79	73	80	75	70	75	71	67	71	67	64	62
3	88	77	69	63	85	75	67	61	71	64	59	67	61	57	63	58	55	52
4	80	69	60	53	77	67	58	52	63	56	50	59	54	49	56	51	47	45
5	74	61	52	46	71	60	51	45	56	49	44	53	47	42	51	45	41	39
6	68	55	46	40	66	54	45	39	51	44	38	48	42	37	46	41	36	34
7	63	50	41	35	61	49	41	35	46	39	34	44	38	33	42	36	32	30
8	59	46	37	32	57	45	37	31	43	35	30	41	34	30	39	33	29	27
9	55	42	34	28	53	41	33	28	39	32	27	37	31	27	36	30	26	24
10	52	39	31	26	50	38	30	25	36	30	25	35	29	24	33	28	24	22

POLAR GRAPH



Maximum Candela = 1751.6 Located At Horizontal Angle = 0, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)