



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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-4257
[TESTLAB] LSI INDUSTRIES, INC.
[TESTDATE] 07/15/13
[ISSUEDATE] 05/02/23
[MANUFAC] LSI INDUSTRIES, INC.
[LUMCAT] W444-LED-SS-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	3775
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	108
Total Luminaire Watts	35
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	1.24
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	8600	8693	8825
55	6932	8074	8661
65	5202	7638	8324
75	3615	7953	8639
85	3220	13955	15028

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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	1222.64	1222.64	1222.64	1222.64	1222.64
2.5	1257.44	1235.40	1222.64	1208.72	1198.28
5.0	1253.96	1233.08	1221.48	1209.88	1199.44
7.5	1249.32	1229.60	1219.16	1208.72	1199.44
10.0	1241.20	1222.64	1214.52	1204.08	1195.96
12.5	1229.60	1212.20	1206.40	1197.12	1189.00
15.0	1214.52	1200.60	1194.80	1186.68	1177.40
17.5	1197.12	1184.36	1180.88	1171.60	1162.32
20.0	1177.40	1165.80	1162.32	1151.88	1142.60
22.5	1153.04	1143.76	1139.12	1126.36	1115.92
25.0	1125.20	1118.24	1111.28	1096.20	1084.60
27.5	1095.04	1088.08	1078.80	1061.40	1048.64
30.0	1059.08	1054.44	1041.68	1021.96	1009.20
32.5	1019.64	1016.16	999.92	981.36	968.60
35.0	975.56	973.24	955.84	938.44	928.00
37.5	926.84	925.68	909.44	895.52	887.40
40.0	873.48	874.64	860.72	853.76	849.12
42.5	815.48	818.96	812.00	813.16	810.84
45.0	754.00	762.12	762.12	772.56	773.72
47.5	690.20	701.80	714.56	733.12	736.60
50.0	624.08	642.64	667.00	692.52	697.16
52.5	556.80	583.48	620.60	651.92	657.72
55.0	493.00	525.48	574.20	611.32	615.96
57.5	430.36	469.80	528.96	568.40	571.88
60.0	377.00	416.44	484.88	524.32	527.80
62.5	322.48	372.36	441.96	480.24	481.40
65.0	272.60	325.96	400.20	435.00	436.16
67.5	226.20	283.04	365.40	394.40	394.40
70.0	185.60	243.60	325.96	354.96	353.80
72.5	148.48	208.80	290.00	315.52	314.36
75.0	116.00	176.32	255.20	278.40	277.24
77.5	98.60	148.48	225.04	244.76	242.44
80.0	74.24	124.12	197.20	214.60	212.28
82.5	52.20	109.04	172.84	187.92	185.60
85.0	34.80	93.96	150.80	164.72	162.40
87.5	18.56	77.72	129.92	143.84	141.52
90.0	4.64	62.64	114.84	126.44	124.12
92.5	2.32	56.84	109.04	116.00	114.84
95.0	2.32	53.36	107.88	110.20	109.04
97.5	2.32	52.20	103.24	107.88	110.20
100.0	2.32	49.88	99.76	106.72	106.72
102.5	2.32	48.72	96.28	109.04	107.88
105.0	2.32	46.40	91.64	105.56	106.72
107.5	2.32	44.08	89.32	103.24	103.24
110.0	2.32	42.92	85.84	99.76	100.92
112.5	2.32	41.76	82.36	97.44	98.60
115.0	2.32	39.44	78.88	93.96	96.28
117.5	2.32	38.28	75.40	91.64	93.96
120.0	2.32	37.12	73.08	88.16	90.48
122.5	2.32	34.80	69.60	84.68	87.00
125.0	3.48	33.64	66.12	81.20	83.52
127.5	3.48	32.48	62.64	77.72	80.04
130.0	3.48	30.16	59.16	73.08	77.72
132.5	3.48	29.00	55.68	69.60	73.08

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CANDELA TABULATION - (Cont.)

135.0	3.48	26.68	52.20	66.12	69.60
137.5	3.48	25.52	48.72	62.64	66.12
140.0	3.48	23.20	45.24	58.00	61.48
142.5	3.48	22.04	41.76	54.52	58.00
145.0	3.48	19.72	39.44	49.88	53.36
147.5	3.48	18.56	35.96	46.40	49.88
150.0	3.48	16.24	32.48	41.76	45.24
152.5	3.48	15.08	29.00	38.28	41.76
155.0	3.48	13.92	26.68	34.80	37.12
157.5	3.48	11.60	23.20	31.32	33.64
160.0	4.64	10.44	20.88	27.84	30.16
162.5	4.64	9.28	17.40	24.36	25.52
165.0	4.64	8.12	15.08	19.72	22.04
167.5	4.64	6.96	11.60	16.24	17.40
170.0	4.64	5.80	10.44	12.76	13.92
172.5	4.64	4.64	6.96	10.44	10.44
175.0	4.64	4.64	5.80	6.96	6.96
177.5	3.48	4.64	4.64	4.64	4.64
180.0	3.48	3.48	3.48	3.48	3.48

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	453.55	N.A.	12.00
0-30	963.09	N.A.	25.50
0-40	1559.68	N.A.	41.30
0-60	2656.68	N.A.	70.40
0-80	3276.78	N.A.	86.80
0-90	3416.61	N.A.	90.50
10-90	3300.13	N.A.	87.40
20-40	1106.14	N.A.	29.30
20-50	1696.38	N.A.	44.90
40-70	1474.43	N.A.	39.10
60-80	620.11	N.A.	16.40
70-80	242.67	N.A.	6.40
80-90	139.83	N.A.	3.70
90-110	169.35	N.A.	4.50
90-120	234.52	N.A.	6.20
90-130	284.88	N.A.	7.50
90-150	341.94	N.A.	9.10
90-180	357.90	N.A.	9.50
110-180	188.55	N.A.	5.00
0-180	3774.51	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	116.49
10-20	337.06
20-30	509.54
30-40	596.60
40-50	590.24
50-60	506.75
60-70	377.43
70-80	242.67
80-90	139.83
90-100	90.49
100-110	78.86
110-120	65.17
120-130	50.37
130-140	35.29
140-150	21.77
150-160	11.16
160-170	4.14
170-180	0.67

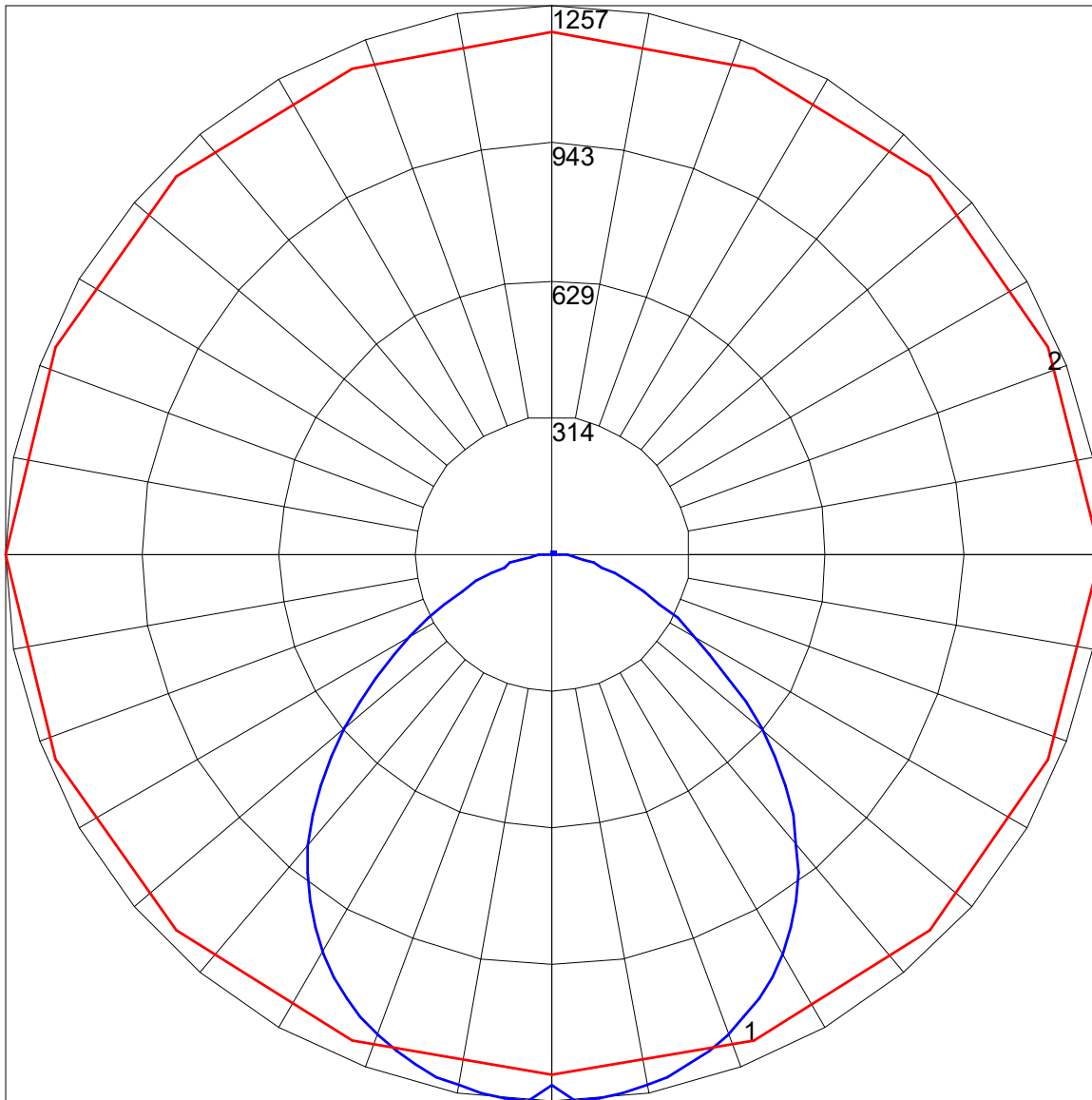
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	91
1	106	101	97	92	102	98	94	90	92	89	86	86	84	81	81	79	77	74
2	96	88	81	75	93	85	79	74	80	75	71	76	71	68	71	68	65	62
3	88	77	69	63	85	75	68	62	71	65	59	67	62	57	63	59	55	52
4	81	69	60	53	78	67	59	52	63	56	51	60	54	49	56	51	47	45
5	74	61	53	46	71	60	52	45	57	49	44	54	47	43	51	46	41	39
6	69	55	47	40	66	54	46	40	51	44	39	49	42	38	46	41	36	34
7	64	50	42	36	61	49	41	35	47	39	34	44	38	33	42	37	32	30
8	59	46	37	32	57	45	37	31	43	36	31	41	34	30	39	33	29	27
9	55	42	34	29	53	41	33	28	39	32	28	38	31	27	36	30	26	24
10	52	39	31	26	50	38	31	26	36	30	25	35	29	25	33	28	24	22

POLAR GRAPH



Maximum Candela = 1257.44 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.)