



IES INDOOR REPORT
PHOTOMETRIC FILENAME : W442-LED-SS-NW.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-4258
[TESTLAB] LSI INDUSTRIES, INC.
[TESTDATE] 07/15/13
[ISSUEDATE] 05/02/23
[MANUFAC] LSI INDUSTRIES, INC.
[LUMCAT] W442-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	3224
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	111
Total Luminaire Watts	29
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.20
Spacing Criterion (Diagonal)	1.32
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	2.00 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	13469	14369	15269
55	10668	13343	15170
65	8014	12973	14965
75	6434	13736	16050
85	5797	24904	28983

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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	1064.88	1064.88	1064.88	1064.88	1064.88
2.5	1089.24	1078.80	1063.72	1049.80	1044.00
5.0	1084.60	1075.32	1062.56	1049.80	1044.00
7.5	1078.80	1069.52	1057.92	1046.32	1041.68
10.0	1069.52	1061.40	1050.96	1039.36	1034.72
12.5	1055.60	1049.80	1040.52	1028.92	1024.28
15.0	1039.36	1034.72	1026.60	1015.00	1009.20
17.5	1019.64	1017.32	1008.04	996.44	990.64
20.0	997.60	995.28	986.00	974.40	968.60
22.5	972.08	969.76	960.48	948.88	943.08
25.0	941.92	941.92	932.64	921.04	915.24
27.5	909.44	909.44	900.16	889.72	885.08
30.0	872.32	873.48	865.36	858.40	854.92
32.5	832.88	835.20	828.24	824.76	823.60
35.0	789.96	793.44	789.96	791.12	792.28
37.5	743.56	749.36	750.52	757.48	760.96
40.0	694.84	702.96	709.92	725.00	730.80
42.5	642.64	655.40	669.32	691.36	699.48
45.0	590.44	605.52	629.88	658.88	669.32
47.5	535.92	556.80	589.28	626.40	638.00
50.0	481.40	506.92	551.00	592.76	605.52
52.5	428.04	459.36	511.56	559.12	573.04
55.0	379.32	412.96	474.44	525.48	539.40
57.5	334.08	374.68	438.48	490.68	503.44
60.0	288.84	334.08	402.52	454.72	467.48
62.5	248.24	295.80	371.20	418.76	430.36
65.0	209.96	259.84	339.88	383.96	392.08
67.5	175.16	227.36	307.40	353.80	360.76
70.0	145.00	197.20	276.08	319.00	324.80
72.5	117.16	169.36	247.08	285.36	290.00
75.0	103.24	143.84	220.40	255.20	257.52
77.5	81.20	122.96	194.88	226.20	228.52
80.0	62.64	109.04	172.84	200.68	201.84
82.5	45.24	97.44	153.12	177.48	177.48
85.0	31.32	82.36	134.56	156.60	156.60
87.5	18.56	68.44	118.32	138.04	138.04
90.0	8.12	55.68	105.56	122.96	122.96
92.5	5.80	51.04	106.72	113.68	112.52
95.0	4.64	48.72	100.92	111.36	112.52
97.5	4.64	47.56	97.44	109.04	107.88
100.0	4.64	46.40	93.96	110.20	110.20
102.5	4.64	44.08	90.48	106.72	106.72
105.0	4.64	41.76	87.00	103.24	104.40
107.5	4.64	40.60	83.52	100.92	102.08
110.0	4.64	39.44	81.20	97.44	98.60
112.5	3.48	38.28	77.72	95.12	96.28
115.0	3.48	35.96	75.40	91.64	93.96
117.5	3.48	34.80	71.92	88.16	91.64
120.0	3.48	33.64	68.44	84.68	88.16
122.5	3.48	32.48	64.96	82.36	84.68
125.0	3.48	31.32	62.64	78.88	82.36
127.5	3.48	29.00	59.16	75.40	77.72
130.0	3.48	27.84	55.68	70.76	74.24
132.5	3.48	26.68	52.20	67.28	70.76

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CANDELA TABULATION - (Cont.)

135.0	3.48	25.52	49.88	63.80	67.28
137.5	3.48	23.20	46.40	59.16	62.64
140.0	3.48	22.04	42.92	55.68	60.32
142.5	3.48	19.72	39.44	51.04	55.68
145.0	3.48	18.56	37.12	47.56	51.04
147.5	3.48	16.24	33.64	44.08	47.56
150.0	3.48	15.08	31.32	40.60	42.92
152.5	3.48	13.92	27.84	37.12	39.44
155.0	3.48	12.76	24.36	32.48	34.80
157.5	3.48	11.60	22.04	29.00	31.32
160.0	3.48	10.44	18.56	25.52	27.84
162.5	3.48	9.28	16.24	22.04	24.36
165.0	3.48	8.12	13.92	18.56	19.72
167.5	3.48	5.80	11.60	15.08	16.24
170.0	3.48	4.64	9.28	12.76	12.76
172.5	3.48	4.64	6.96	9.28	9.28
175.0	3.48	3.48	4.64	5.80	6.96
177.5	3.48	3.48	3.48	3.48	3.48
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	389.94	N.A.	12.10
0-30	818.12	N.A.	25.40
0-40	1312.82	N.A.	40.70
0-60	2219.25	N.A.	68.80
0-80	2751.64	N.A.	85.30
0-90	2880.59	N.A.	89.30
10-90	2779.5	N.A.	86.20
20-40	922.89	N.A.	28.60
20-50	1409.69	N.A.	43.70
40-70	1225.97	N.A.	38.00
60-80	532.39	N.A.	16.50
70-80	212.84	N.A.	6.60
80-90	128.95	N.A.	4.00
90-110	164.06	N.A.	5.10
90-120	226.54	N.A.	7.00
90-130	274.66	N.A.	8.50
90-150	328.88	N.A.	10.20
90-180	343.83	N.A.	10.70
110-180	179.77	N.A.	5.60
0-180	3224.42	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	101.08
10-20	288.85
20-30	428.19
30-40	494.70
40-50	486.80
50-60	419.62
60-70	319.55
70-80	212.84
80-90	128.95
90-100	87.93
100-110	76.12
110-120	62.49
120-130	48.12
130-140	33.63
140-150	20.59
150-160	10.53
160-170	3.83
170-180	0.59

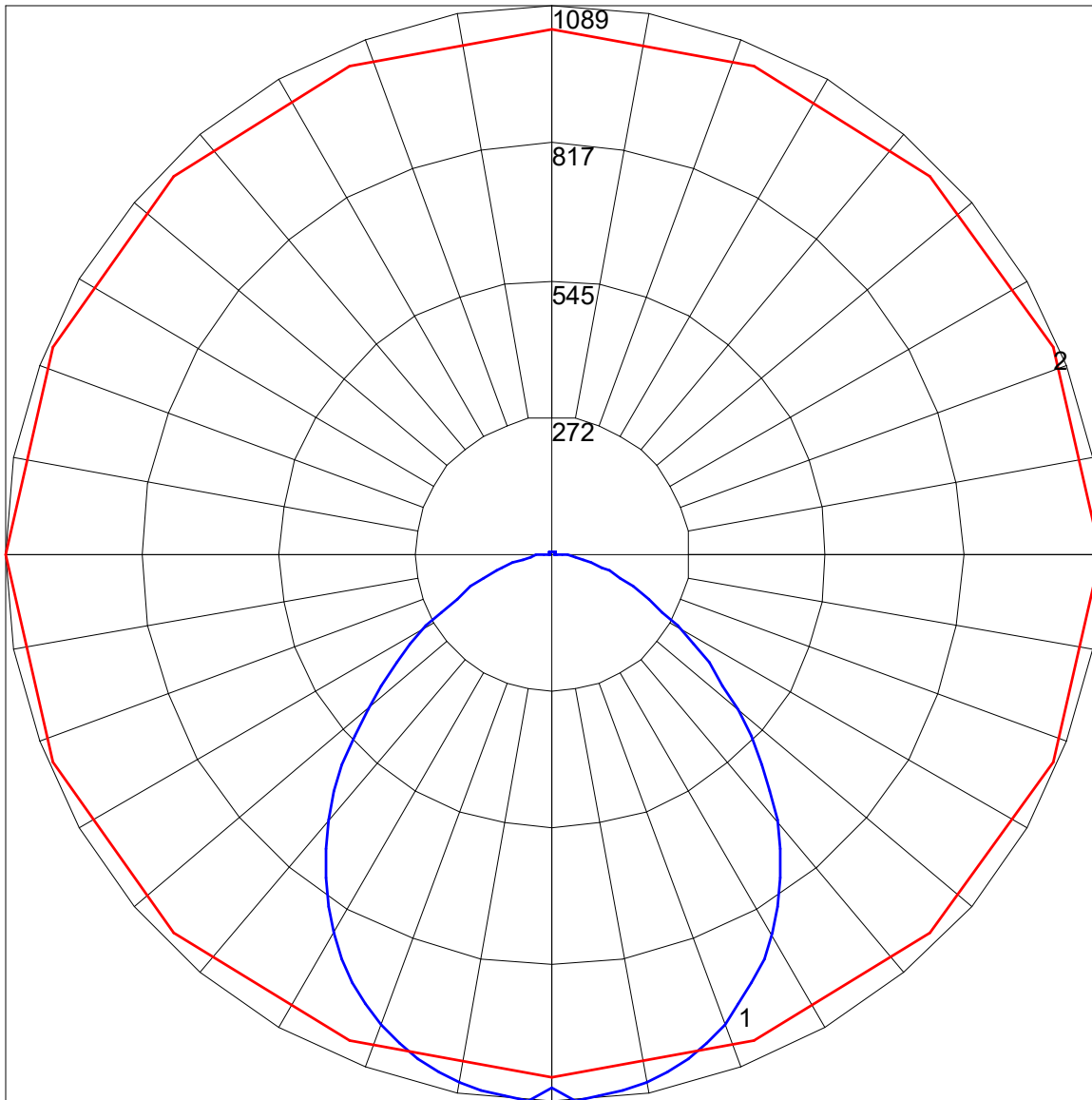
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	105	105	105	98	98	98	92	92	92	89
1	106	101	96	92	102	97	93	89	91	88	85	85	83	80	80	78	76	73
2	96	88	81	75	92	85	78	73	80	74	70	75	70	67	70	67	64	61
3	88	77	69	62	84	75	67	61	70	64	59	66	61	56	62	58	54	51
4	80	68	60	53	77	66	58	52	63	56	50	59	53	48	56	51	47	44
5	74	61	52	46	71	59	51	45	56	49	44	53	47	42	50	45	41	38
6	68	55	46	40	66	54	45	39	51	44	38	48	42	37	46	40	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	42	35	30	40	34	30	38	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	26	36	30	25	35	29	24	33	28	24	22

POLAR GRAPH



Maximum Candela = 1089.24 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.)