



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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-4254
[TESTLAB] LSI INDUSTRIES, INC.
[TESTDATE] 07/12/13
[ISSUE DATE] 05/02/23
[MANUFAC] LSI INDUSTRIES, INC.
[LUMCAT] W444-LED-SS-CW
[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] 5000

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4425
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	126
Total Luminaire Watts	35
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.30
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.36
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	10082	10228	10400
55	8139	9526	10244
65	6132	9010	9873
75	4302	9399	10230
85	3757	16424	17819

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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	1416.36	1416.36	1416.36	1416.36	1416.36
2.5	1455.80	1431.44	1415.20	1401.28	1389.68
5.0	1451.16	1429.12	1414.04	1402.44	1392.00
7.5	1445.36	1424.48	1412.88	1402.44	1392.00
10.0	1436.08	1417.52	1407.08	1397.80	1388.52
12.5	1423.32	1408.24	1398.96	1390.84	1381.56
15.0	1408.24	1394.32	1387.36	1380.40	1371.12
17.5	1388.52	1378.08	1372.28	1364.16	1354.88
20.0	1366.48	1357.20	1351.40	1342.12	1331.68
22.5	1338.64	1332.84	1327.04	1314.28	1302.68
25.0	1308.48	1305.00	1294.56	1279.48	1266.72
27.5	1273.68	1271.36	1258.60	1240.04	1226.12
30.0	1234.24	1233.08	1216.84	1195.96	1182.04
32.5	1189.00	1189.00	1170.44	1148.40	1135.64
35.0	1139.12	1141.44	1119.40	1099.68	1089.24
37.5	1082.28	1086.92	1064.88	1049.80	1041.68
40.0	1021.96	1027.76	1009.20	1002.24	997.60
42.5	954.68	963.96	952.36	954.68	953.52
45.0	883.92	896.68	896.68	908.28	911.76
47.5	809.68	828.24	839.84	863.04	867.68
50.0	733.12	758.64	785.32	816.64	823.60
52.5	654.24	687.88	730.80	770.24	777.20
55.0	578.84	620.60	677.44	721.52	728.48
57.5	505.76	554.48	625.24	671.64	678.60
60.0	437.32	491.84	573.04	620.60	625.24
62.5	375.84	432.68	522.00	568.40	571.88
65.0	321.32	381.64	472.12	516.20	517.36
67.5	266.80	334.08	424.56	464.00	465.16
70.0	219.24	287.68	381.64	414.12	414.12
72.5	176.32	245.92	341.04	370.04	370.04
75.0	138.04	207.64	301.60	329.44	328.28
77.5	114.84	175.16	265.64	290.00	287.68
80.0	87.00	146.16	233.16	255.20	251.72
82.5	61.48	124.12	204.16	222.72	220.40
85.0	40.60	110.20	177.48	196.04	192.56
87.5	23.20	90.48	154.28	171.68	169.36
90.0	6.96	74.24	134.56	151.96	149.64
92.5	4.64	66.12	122.96	139.20	138.04
95.0	3.48	63.80	119.48	132.24	131.08
97.5	3.48	61.48	121.80	126.44	125.28
100.0	3.48	58.00	117.16	121.80	121.80
102.5	3.48	56.84	112.52	120.64	122.96
105.0	3.48	54.52	107.88	125.28	119.48
107.5	3.48	52.20	104.40	121.80	121.80
110.0	3.48	49.88	100.92	118.32	119.48
112.5	3.48	48.72	96.28	114.84	116.00
115.0	3.48	46.40	92.80	111.36	113.68
117.5	3.48	44.08	89.32	106.72	110.20
120.0	2.32	42.92	84.68	103.24	106.72
122.5	3.48	40.60	81.20	98.60	102.08
125.0	3.48	39.44	76.56	95.12	98.60
127.5	3.48	37.12	73.08	90.48	93.96
130.0	3.48	34.80	68.44	85.84	90.48
132.5	3.48	33.64	64.96	81.20	85.84

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CANDELA TABULATION - (Cont.)

135.0	3.48	31.32	60.32	76.56	81.20
137.5	3.48	29.00	56.84	73.08	76.56
140.0	3.48	26.68	53.36	68.44	71.92
142.5	3.48	24.36	48.72	63.80	67.28
145.0	3.48	22.04	45.24	58.00	62.64
147.5	3.48	20.88	41.76	54.52	58.00
150.0	3.48	18.56	38.28	49.88	53.36
152.5	4.64	16.24	33.64	45.24	48.72
155.0	3.48	15.08	30.16	40.60	42.92
157.5	4.64	13.92	26.68	35.96	39.44
160.0	4.64	11.60	23.20	31.32	34.80
162.5	4.64	10.44	19.72	26.68	29.00
165.0	4.64	9.28	16.24	22.04	24.36
167.5	4.64	8.12	13.92	18.56	19.72
170.0	4.64	6.96	10.44	15.08	16.24
172.5	4.64	5.80	8.12	10.44	11.60
175.0	4.64	4.64	5.80	6.96	8.12
177.5	4.64	3.48	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	526.69	N.A.	11.90
0-30	1121.02	N.A.	25.30
0-40	1819.77	N.A.	41.10
0-60	3111.76	N.A.	70.30
0-80	3842.23	N.A.	86.80
0-90	4007.58	N.A.	90.60
10-90	3872.57	N.A.	87.50
20-40	1293.08	N.A.	29.20
20-50	1987.11	N.A.	44.90
40-70	1736.34	N.A.	39.20
60-80	730.47	N.A.	16.50
70-80	286.12	N.A.	6.50
80-90	165.34	N.A.	3.70
90-110	197.95	N.A.	4.50
90-120	274.56	N.A.	6.20
90-130	333.28	N.A.	7.50
90-150	399.57	N.A.	9.00
90-180	417.81	N.A.	9.40
110-180	219.86	N.A.	5.00
0-180	4425.38	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	135.00
10-20	391.69
20-30	594.33
30-40	698.75
40-50	694.03
50-60	597.96
60-70	444.35
70-80	286.12
80-90	165.34
90-100	106.12
100-110	91.83
110-120	76.61
120-130	58.73
130-140	41.04
140-150	25.25
150-160	12.89
160-170	4.63
170-180	0.72

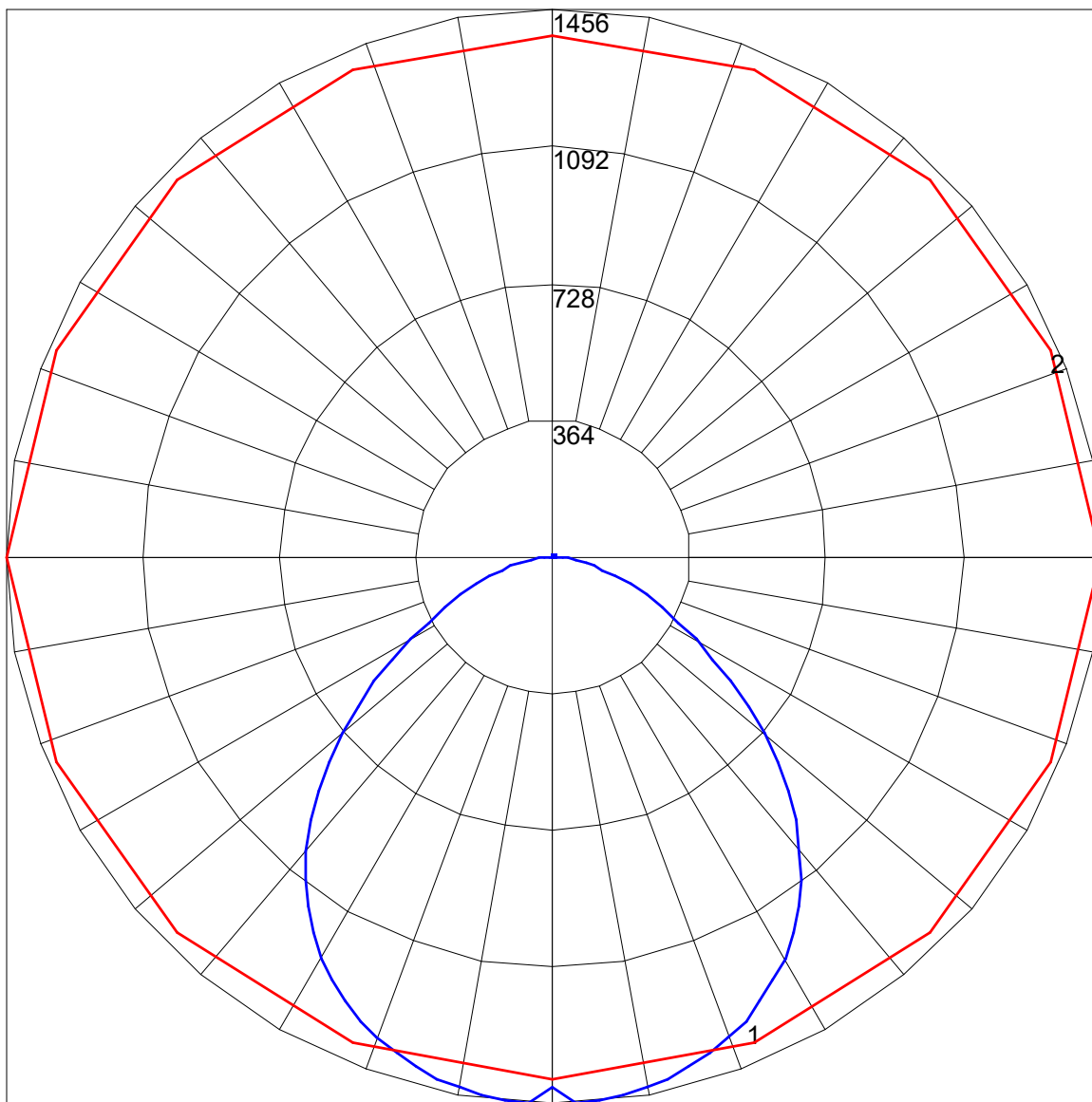
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	96	92	102	98	94	90	92	88	85	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	64	59	67	61	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	52	46	71	60	51	45	57	49	44	54	47	43	51	46	41	39
6	68	55	46	40	66	54	46	40	51	44	38	49	42	37	46	41	36	34
7	64	50	42	35	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	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 = 1455.8 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.)