



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : XRT44-LED-12L-40-80CRI.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LED-5456

[TESTLAB] LSI INDUSTRIES, INC.

[ISSUE DATE] 03/16/2020

[TEST DATE] 04/21/14

[MANUFAC] LSI INDUSTRIES, INC.

[LUMCAT] XRT44-LED-12L-40-80CRI

[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	12042
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	128
Total Luminaire Watts	94
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.24
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)	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	2647	2655	2644
55	2514	2505	2492
65	2317	2324	2317
75	2015	2007	1968
85	1218	1218	1195

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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	4441	4441	4441	4441	4441
2.5	4441	4445	4445	4445	4445
5.0	4430	4434	4434	4430	4430
7.5	4404	4408	4404	4404	4404
10.0	4364	4368	4368	4368	4368
12.5	4312	4320	4320	4312	4316
15.0	4250	4254	4254	4250	4254
17.5	4176	4176	4176	4173	4180
20.0	4092	4092	4092	4088	4084
22.5	4000	3996	3996	3992	3989
25.0	3893	3893	3889	3886	3886
27.5	3779	3771	3771	3771	3764
30.0	3657	3650	3646	3650	3643
32.5	3529	3521	3518	3518	3510
35.0	3381	3389	3378	3378	3374
37.5	3242	3245	3238	3238	3231
40.0	3087	3098	3091	3083	3083
42.5	2936	2951	2940	2929	2933
45.0	2785	2793	2793	2778	2782
47.5	2631	2631	2631	2620	2616
50.0	2473	2469	2469	2462	2458
52.5	2311	2311	2307	2300	2289
55.0	2145	2141	2138	2138	2127
57.5	1980	1972	1972	1969	1961
60.0	1807	1807	1803	1803	1796
62.5	1637	1637	1634	1630	1626
65.0	1457	1468	1461	1457	1457
67.5	1288	1299	1292	1280	1288
70.0	1115	1119	1115	1111	1115
72.5	946	953	942	938	938
75.0	776	769	773	769	758
77.5	607	596	600	600	592
80.0	449	442	442	438	434
82.5	291	294	291	283	283
85.0	158	166	158	151	155
87.5	63	63	59	52	55
90.0	0	0	0	0	0

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1619.75	N.A.	13.50
0-30	3410.2	N.A.	28.30
0-40	5524.82	N.A.	45.90
0-60	9584.75	N.A.	79.60
0-80	11844.97	N.A.	98.40
0-90	12042.21	N.A.	100.00
10-90	11621.29	N.A.	96.50
20-40	3905.07	N.A.	32.40
20-50	6053.31	N.A.	50.30
40-70	5505.53	N.A.	45.70
60-80	2260.23	N.A.	18.80
70-80	814.62	N.A.	6.80
80-90	197.24	N.A.	1.60
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	12042.21	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	420.93
10-20	1198.83
20-30	1790.45
30-40	2114.62
40-50	2148.25
50-60	1911.68
60-70	1445.61
70-80	814.62
80-90	197.24
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

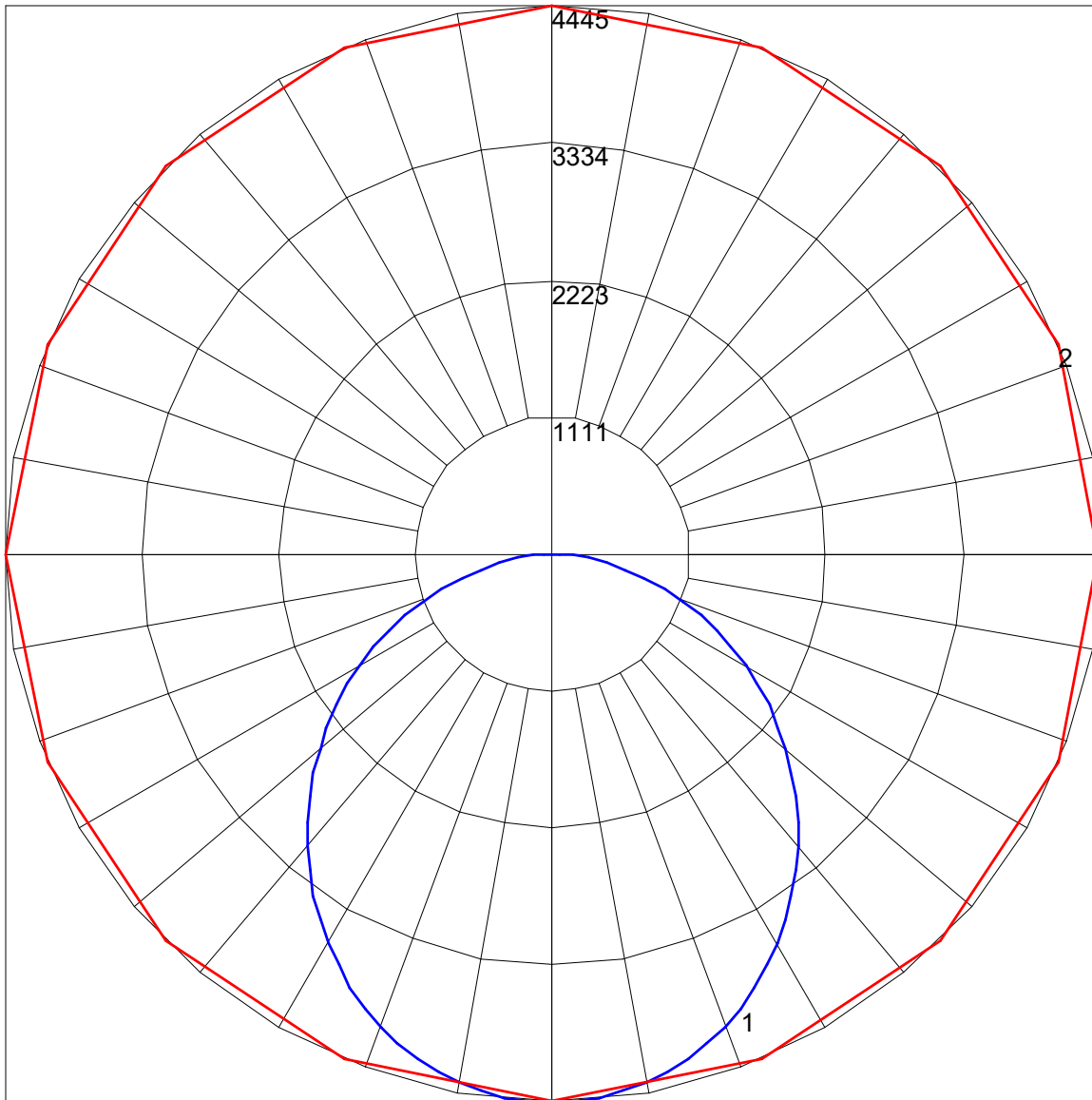
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	109	104	100	96	106	102	98	95	98	94	92	94	91	89	90	88	86	84
2	99	91	84	78	96	89	83	77	85	80	76	82	78	74	79	76	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	59
4	83	71	62	55	80	70	61	55	67	60	54	65	59	54	62	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	30	42	35	29	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

POLAR GRAPH



Maximum Candela = 4445 Located At Horizontal Angle = 22.5, Vertical Angle = 2.5  
# 1 - Vertical Plane Through Horizontal Angles (22.5 - 202.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)