



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : XRT44-LED-12L-35-80CRI.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-35-80CRI

[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	11345
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	121
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	2494	2501	2491
55	2368	2360	2348
65	2184	2188	2184
75	1898	1891	1854
85	1149	1149	1126

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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	4184	4184	4184	4184	4184
2.5	4184	4188	4188	4188	4188
5.0	4174	4177	4177	4174	4174
7.5	4149	4153	4149	4149	4149
10.0	4111	4115	4115	4115	4115
12.5	4063	4070	4070	4063	4066
15.0	4004	4007	4007	4004	4007
17.5	3935	3935	3935	3931	3938
20.0	3855	3855	3855	3851	3848
22.5	3768	3765	3765	3761	3758
25.0	3668	3668	3664	3661	3661
27.5	3560	3553	3553	3553	3546
30.0	3446	3439	3435	3439	3432
32.5	3324	3317	3314	3314	3307
35.0	3186	3193	3182	3182	3179
37.5	3054	3057	3051	3051	3044
40.0	2908	2919	2912	2905	2905
42.5	2766	2780	2770	2759	2763
45.0	2624	2631	2631	2617	2621
47.5	2479	2479	2479	2468	2465
50.0	2330	2326	2326	2319	2316
52.5	2177	2177	2174	2167	2156
55.0	2021	2018	2014	2014	2004
57.5	1865	1858	1858	1855	1848
60.0	1702	1702	1699	1699	1692
62.5	1543	1543	1539	1536	1532
65.0	1373	1383	1376	1373	1373
67.5	1213	1224	1217	1206	1213
70.0	1050	1054	1050	1047	1050
72.5	891	898	887	884	884
75.0	731	725	728	725	714
77.5	572	562	565	565	558
80.0	423	416	416	413	409
82.5	274	277	274	267	267
85.0	149	156	149	142	146
87.5	59	59	55	49	52
90.0	0	0	0	0	0

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1525.99	N.A.	13.50
0-30	3212.86	N.A.	28.30
0-40	5205.07	N.A.	45.90
0-60	9030.01	N.A.	79.60
0-80	11159.46	N.A.	98.40
0-90	11345.19	N.A.	100.00
10-90	10948.63	N.A.	96.50
20-40	3679.08	N.A.	32.40
20-50	5702.95	N.A.	50.30
40-70	5186.9	N.A.	45.70
60-80	2129.44	N.A.	18.80
70-80	767.48	N.A.	6.80
80-90	185.73	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	11345.19	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	396.56
10-20	1129.43
20-30	1686.86
30-40	1992.22
40-50	2023.87
50-60	1801.07
60-70	1361.96
70-80	767.48
80-90	185.73
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

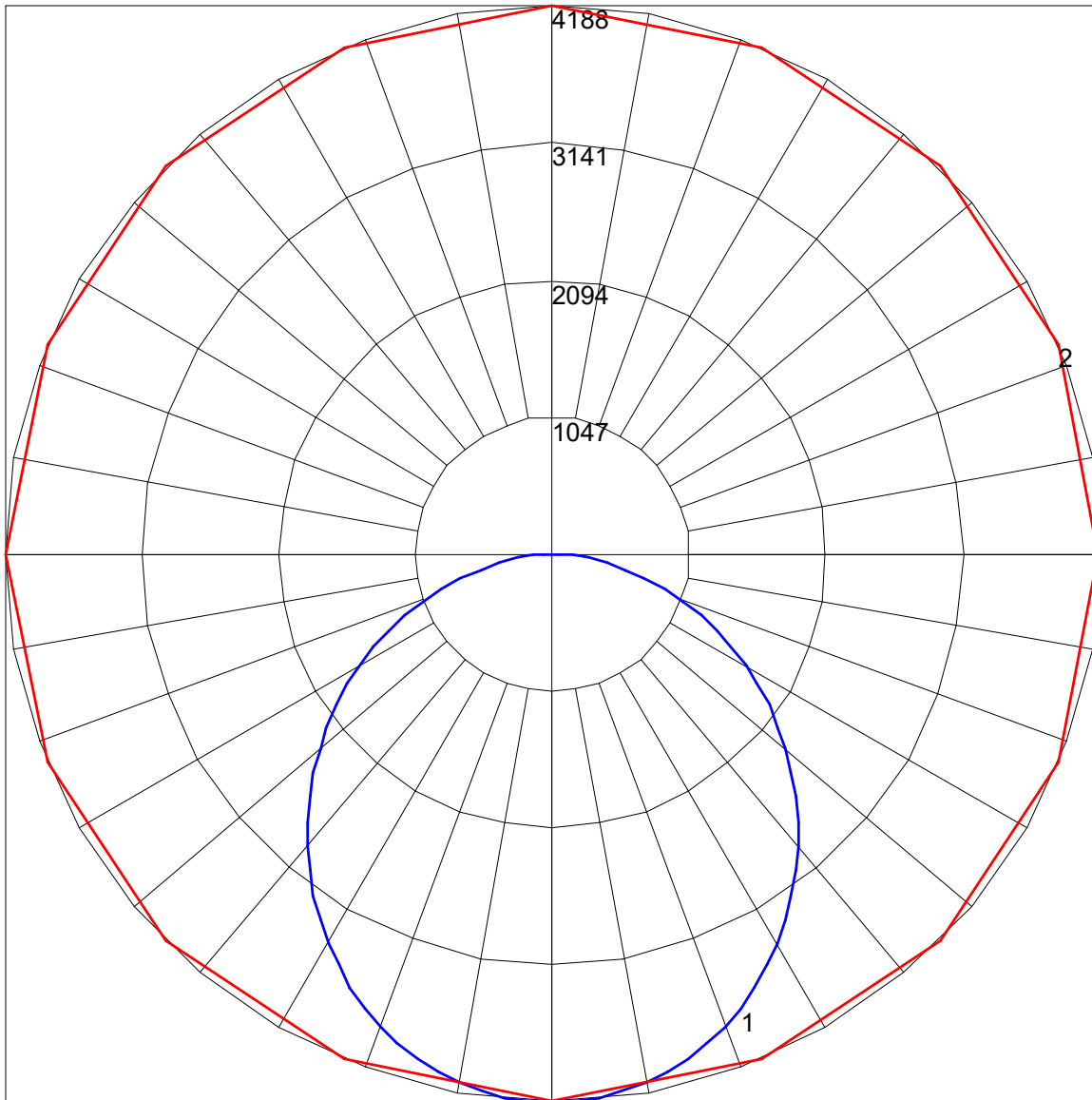
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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 = 4188 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.)