



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : XRT44-LED-10L-50-80CRI.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-10L-50-80CRI

[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	9392
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	130
Total Luminaire Watts	72
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	2065	2070	2063
55	1960	1953	1944
65	1807	1811	1807
75	1574	1566	1535
85	949	949	933

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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	3464	3464	3464	3464	3464
2.5	3464	3467	3467	3467	3467
5.0	3455	3458	3458	3455	3455
7.5	3435	3438	3435	3435	3435
10.0	3404	3407	3407	3407	3407
12.5	3363	3369	3369	3363	3366
15.0	3315	3318	3318	3315	3318
17.5	3257	3257	3257	3254	3260
20.0	3191	3191	3191	3188	3186
22.5	3120	3117	3117	3114	3111
25.0	3036	3036	3033	3031	3031
27.5	2947	2942	2942	2942	2936
30.0	2853	2847	2844	2847	2841
32.5	2752	2746	2744	2744	2738
35.0	2637	2643	2635	2635	2632
37.5	2528	2531	2525	2525	2520
40.0	2408	2416	2411	2405	2405
42.5	2290	2302	2293	2284	2287
45.0	2172	2178	2178	2167	2170
47.5	2052	2052	2052	2043	2040
50.0	1929	1926	1926	1920	1917
52.5	1802	1802	1799	1794	1785
55.0	1673	1670	1667	1667	1659
57.5	1544	1538	1538	1535	1530
60.0	1409	1409	1406	1406	1400
62.5	1277	1277	1274	1271	1268
65.0	1136	1145	1139	1136	1136
67.5	1004	1013	1007	999	1004
70.0	870	872	870	867	870
72.5	738	743	735	732	732
75.0	606	600	603	600	591
77.5	474	465	468	468	462
80.0	350	344	344	342	339
82.5	227	230	227	221	221
85.0	123	129	123	118	121
87.5	49	49	46	40	43
90.0	0	0	0	0	0

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1263.29	N.A.	13.50
0-30	2659.83	N.A.	28.30
0-40	4309.14	N.A.	45.90
0-60	7475.43	N.A.	79.60
0-80	9238.23	N.A.	98.40
0-90	9392.03	N.A.	100.00
10-90	9063.73	N.A.	96.50
20-40	3045.84	N.A.	32.40
20-50	4721.31	N.A.	50.30
40-70	4293.61	N.A.	45.70
60-80	1762.8	N.A.	18.80
70-80	635.49	N.A.	6.80
80-90	153.80	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	9392.03	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	328.30
10-20	934.99
20-30	1396.54
30-40	1649.3
40-50	1675.47
50-60	1490.83
60-70	1127.31
70-80	635.49
80-90	153.80
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

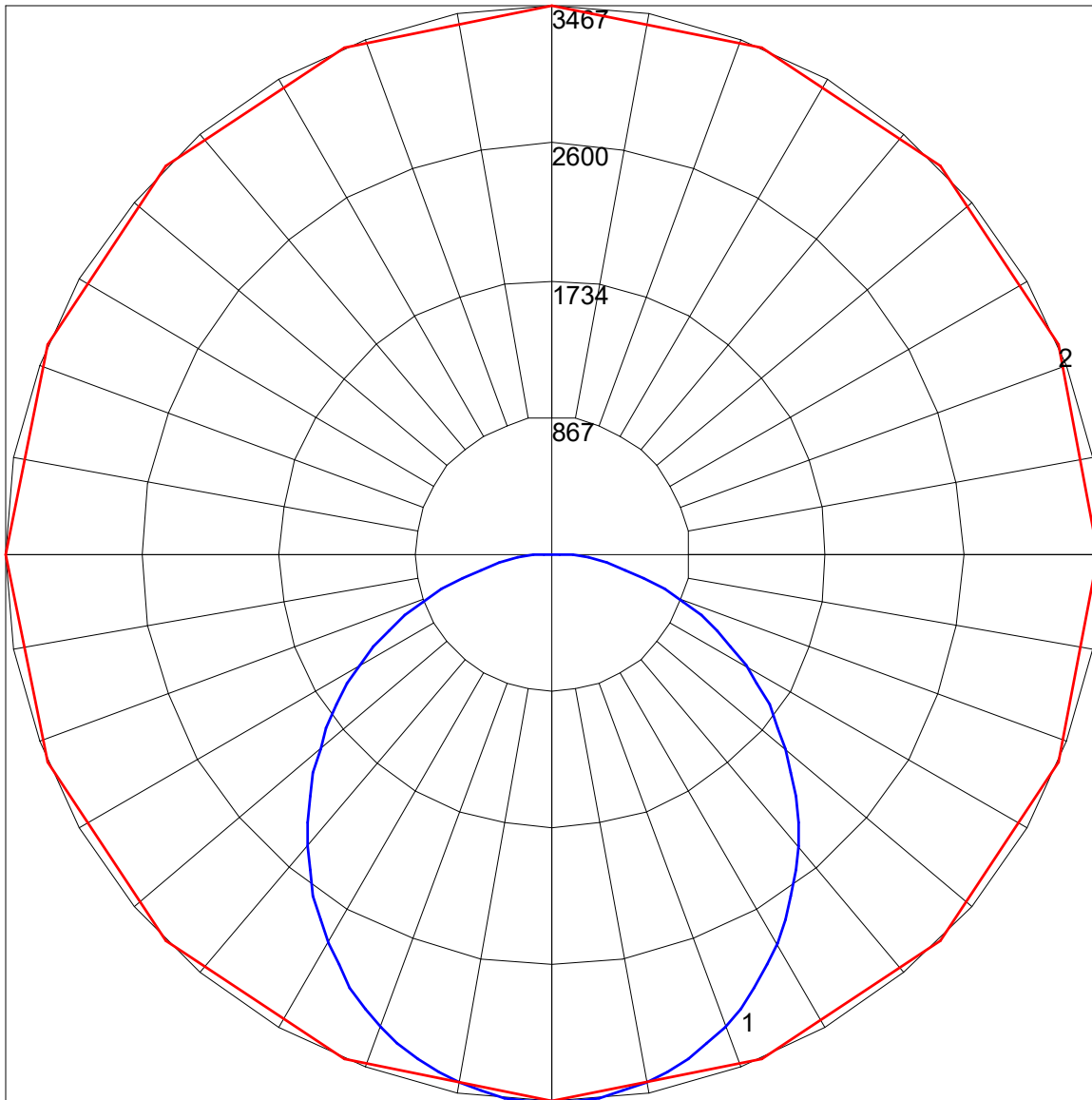
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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 = 3467 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.)