



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : XRT44-LED-10L-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-10L-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	10046
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	140
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	2209	2215	2206
55	2098	2089	2079
65	1934	1939	1934
75	1683	1675	1641
85	1018	1018	995

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**CANDELA TABULATION**

	<u><b>0.0</b></u>	<u><b>22.5</b></u>	<u><b>45.0</b></u>	<u><b>67.5</b></u>	<u><b>90.0</b></u>
<b>0.0</b>	3705	3705	3705	3705	3705
<b>2.5</b>	3705	3708	3708	3708	3708
<b>5.0</b>	3696	3699	3699	3696	3696
<b>7.5</b>	3674	3677	3674	3674	3674
<b>10.0</b>	3641	3644	3644	3644	3644
<b>12.5</b>	3598	3604	3604	3598	3601
<b>15.0</b>	3545	3549	3549	3545	3549
<b>17.5</b>	3484	3484	3484	3481	3487
<b>20.0</b>	3413	3413	3413	3410	3407
<b>22.5</b>	3337	3334	3334	3331	3328
<b>25.0</b>	3248	3248	3245	3242	3242
<b>27.5</b>	3153	3146	3146	3146	3140
<b>30.0</b>	3051	3045	3042	3045	3039
<b>32.5</b>	2944	2938	2935	2935	2928
<b>35.0</b>	2821	2827	2818	2818	2815
<b>37.5</b>	2704	2707	2701	2701	2695
<b>40.0</b>	2575	2585	2579	2572	2572
<b>42.5</b>	2450	2462	2453	2443	2447
<b>45.0</b>	2324	2330	2330	2318	2321
<b>47.5</b>	2195	2195	2195	2186	2183
<b>50.0</b>	2063	2060	2060	2054	2051
<b>52.5</b>	1928	1928	1925	1919	1909
<b>55.0</b>	1790	1787	1783	1783	1774
<b>57.5</b>	1651	1645	1645	1642	1636
<b>60.0</b>	1507	1507	1504	1504	1498
<b>62.5</b>	1366	1366	1363	1360	1357
<b>65.0</b>	1216	1225	1219	1216	1216
<b>67.5</b>	1074	1084	1077	1068	1074
<b>70.0</b>	930	933	930	927	930
<b>72.5</b>	789	795	786	783	783
<b>75.0</b>	648	642	645	642	632
<b>77.5</b>	506	497	500	500	494
<b>80.0</b>	374	368	368	365	362
<b>82.5</b>	243	246	243	236	236
<b>85.0</b>	132	138	132	126	129
<b>87.5</b>	52	52	49	43	46
<b>90.0</b>	0	0	0	0	0

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1351.26	N.A.	13.50
0-30	2845.00	N.A.	28.30
0-40	4609.1	N.A.	45.90
0-60	7996.13	N.A.	79.60
0-80	9881.67	N.A.	98.40
0-90	10046.09	N.A.	100.00
10-90	9694.94	N.A.	96.50
20-40	3257.84	N.A.	32.40
20-50	5050.14	N.A.	50.30
40-70	4593.04	N.A.	45.70
60-80	1885.54	N.A.	18.80
70-80	679.53	N.A.	6.80
80-90	164.42	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	10046.09	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	351.15
10-20	1000.11
20-30	1493.74
30-40	1764.11
40-50	1792.3
50-60	1594.73
60-70	1206.02
70-80	679.53
80-90	164.42
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

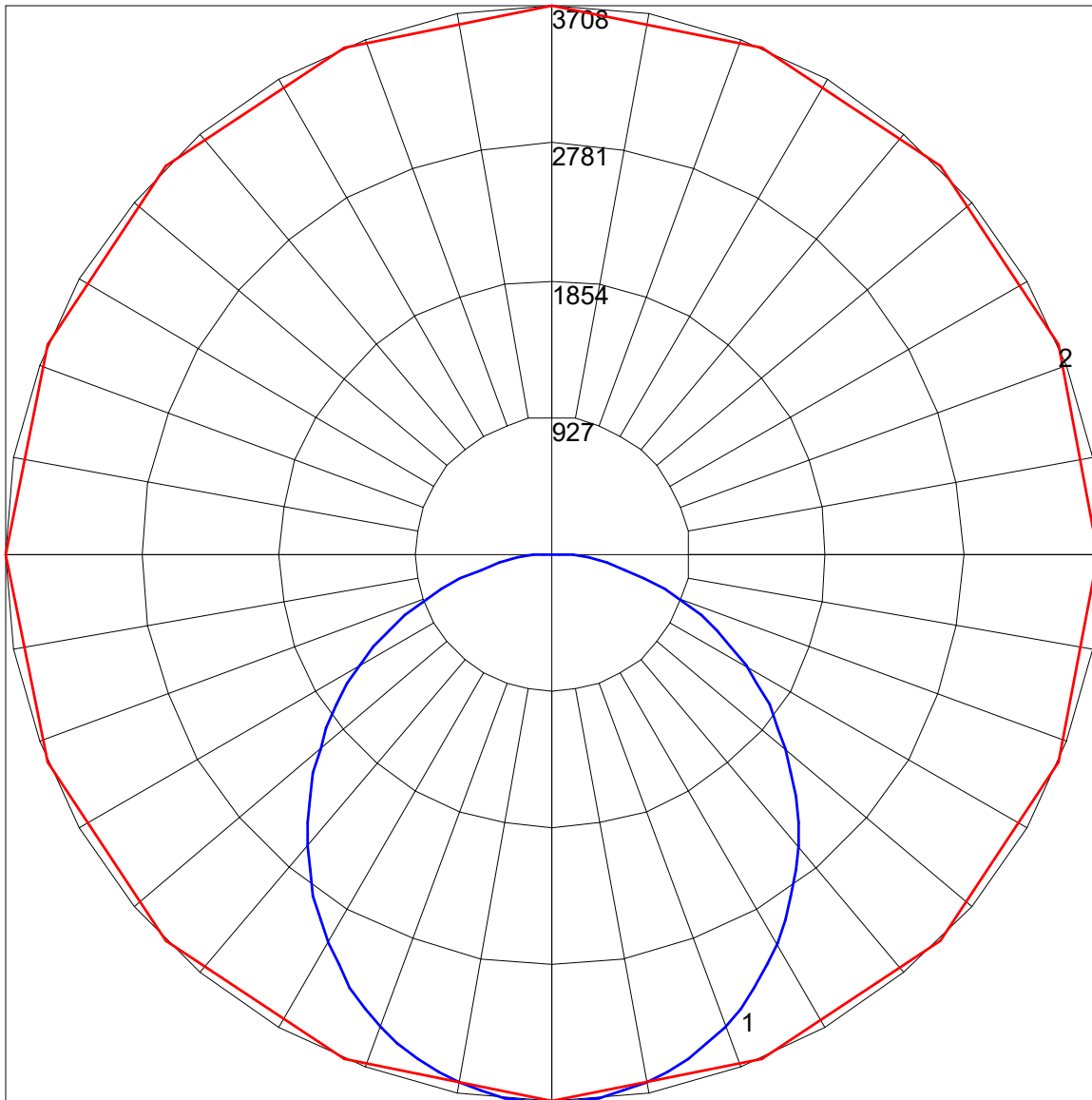
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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 = 3708 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.)