



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : XRT44-LED-14L-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-14L-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	13584
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	128
Total Luminaire Watts	106
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	2987	2994	2983
55	2836	2826	2811
65	2615	2621	2615
75	2275	2264	2220
85	1373	1373	1342

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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>
<b>0.0</b>	5010	5010	5010	5010	5010
<b>2.5</b>	5010	5014	5014	5014	5014
<b>5.0</b>	4997	5002	5002	4997	4997
<b>7.5</b>	4968	4972	4968	4968	4968
<b>10.0</b>	4923	4927	4927	4927	4927
<b>12.5</b>	4865	4873	4873	4865	4869
<b>15.0</b>	4794	4798	4798	4794	4798
<b>17.5</b>	4711	4711	4711	4707	4715
<b>20.0</b>	4615	4615	4615	4611	4607
<b>22.5</b>	4512	4508	4508	4503	4499
<b>25.0</b>	4391	4391	4387	4383	4383
<b>27.5</b>	4263	4254	4254	4254	4246
<b>30.0</b>	4126	4117	4113	4117	4109
<b>32.5</b>	3980	3972	3968	3968	3960
<b>35.0</b>	3814	3823	3810	3810	3806
<b>37.5</b>	3657	3661	3653	3653	3644
<b>40.0</b>	3482	3495	3487	3478	3478
<b>42.5</b>	3312	3329	3316	3304	3308
<b>45.0</b>	3142	3150	3150	3134	3138
<b>47.5</b>	2968	2968	2968	2955	2951
<b>50.0</b>	2789	2785	2785	2777	2773
<b>52.5</b>	2607	2607	2602	2594	2582
<b>55.0</b>	2420	2416	2412	2412	2399
<b>57.5</b>	2233	2225	2225	2221	2212
<b>60.0</b>	2038	2038	2034	2034	2026
<b>62.5</b>	1847	1847	1843	1839	1835
<b>65.0</b>	1644	1656	1648	1644	1644
<b>67.5</b>	1453	1465	1457	1444	1453
<b>70.0</b>	1258	1262	1258	1253	1258
<b>72.5</b>	1067	1075	1063	1058	1058
<b>75.0</b>	876	867	872	867	855
<b>77.5</b>	685	672	677	677	668
<b>80.0</b>	506	498	498	494	490
<b>82.5</b>	328	332	328	320	320
<b>85.0</b>	178	187	178	170	174
<b>87.5</b>	71	71	66	58	62
<b>90.0</b>	0	0	0	0	0

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1827.1	N.A.	13.50
0-30	3846.73	N.A.	28.30
0-40	6232.09	N.A.	45.90
0-60	10811.82	N.A.	79.60
0-80	13361.47	N.A.	98.40
0-90	13583.81	N.A.	100.00
10-90	13108.99	N.A.	96.50
20-40	4404.99	N.A.	32.40
20-50	6828.23	N.A.	50.30
40-70	6210.51	N.A.	45.70
60-80	2549.64	N.A.	18.80
70-80	918.87	N.A.	6.80
80-90	222.34	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	13583.81	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	474.82
10-20	1352.28
20-30	2019.64
30-40	2385.36
40-50	2423.24
50-60	2156.49
60-70	1630.78
70-80	918.87
80-90	222.34
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

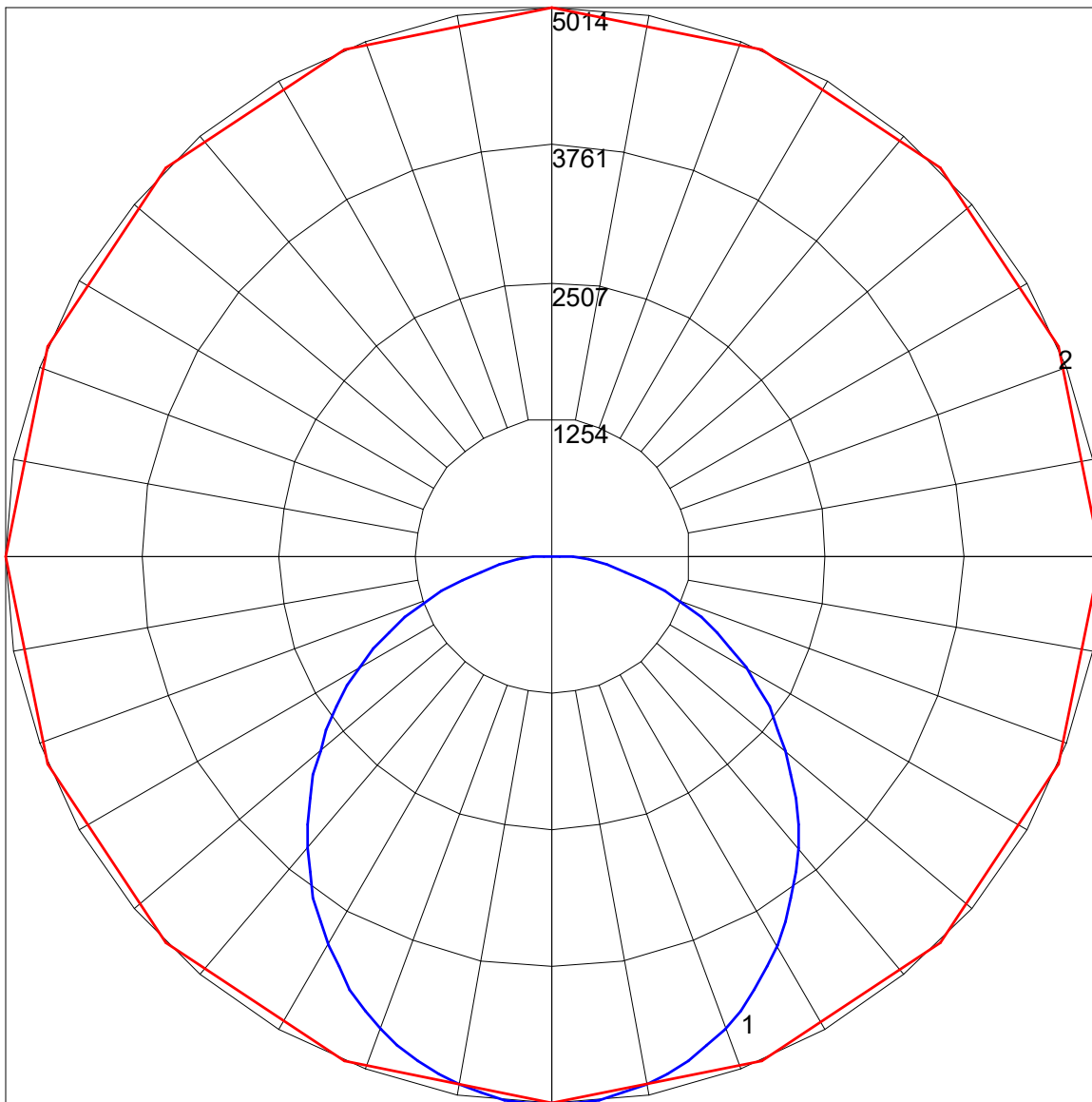
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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 = 5014 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.)