



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : XRT44-LED-06L-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-06L-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	6087
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	130
Total Luminaire Watts	47
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.22
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	1338	1342	1336
55	1270	1267	1260
65	1171	1174	1171
75	1018	1015	995
85	617	617	602

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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>	2245	2245	2245	2245	2245
<b>2.5</b>	2245	2247	2247	2247	2247
<b>5.0</b>	2239	2241	2241	2239	2239
<b>7.5</b>	2226	2228	2226	2226	2226
<b>10.0</b>	2206	2208	2208	2208	2208
<b>12.5</b>	2180	2183	2183	2180	2182
<b>15.0</b>	2148	2150	2150	2148	2150
<b>17.5</b>	2111	2111	2111	2109	2113
<b>20.0</b>	2068	2068	2068	2066	2064
<b>22.5</b>	2022	2020	2020	2018	2016
<b>25.0</b>	1968	1968	1966	1964	1964
<b>27.5</b>	1910	1906	1906	1906	1903
<b>30.0</b>	1849	1845	1843	1845	1841
<b>32.5</b>	1784	1780	1778	1778	1774
<b>35.0</b>	1709	1713	1707	1707	1705
<b>37.5</b>	1638	1640	1637	1637	1633
<b>40.0</b>	1560	1566	1562	1558	1558
<b>42.5</b>	1484	1492	1486	1480	1482
<b>45.0</b>	1408	1412	1412	1404	1406
<b>47.5</b>	1330	1330	1330	1324	1322
<b>50.0</b>	1250	1248	1248	1244	1242
<b>52.5</b>	1168	1168	1166	1162	1157
<b>55.0</b>	1084	1082	1081	1081	1075
<b>57.5</b>	1001	997	997	995	991
<b>60.0</b>	913	913	911	911	908
<b>62.5</b>	828	828	826	824	822
<b>65.0</b>	736	742	738	736	736
<b>67.5</b>	651	656	653	647	651
<b>70.0</b>	564	565	564	562	564
<b>72.5</b>	478	482	476	474	474
<b>75.0</b>	392	389	391	389	383
<b>77.5</b>	307	301	303	303	299
<b>80.0</b>	227	223	223	221	219
<b>82.5</b>	147	149	147	143	143
<b>85.0</b>	80	84	80	76	78
<b>87.5</b>	32	32	30	26	28
<b>90.0</b>	0	0	0	0	0

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	818.70	N.A.	13.50
0-30	1723.7	N.A.	28.30
0-40	2792.5	N.A.	45.90
0-60	4844.52	N.A.	79.60
0-80	5986.85	N.A.	98.40
0-90	6086.52	N.A.	100.00
10-90	5873.76	N.A.	96.50
20-40	1973.8	N.A.	32.40
20-50	3059.61	N.A.	50.30
40-70	2782.64	N.A.	45.70
60-80	1142.33	N.A.	18.80
70-80	411.72	N.A.	6.80
80-90	99.67	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	6086.52	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	212.76
10-20	605.94
20-30	905.01
30-40	1068.79
40-50	1085.81
50-60	966.21
60-70	730.62
70-80	411.72
80-90	99.67
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

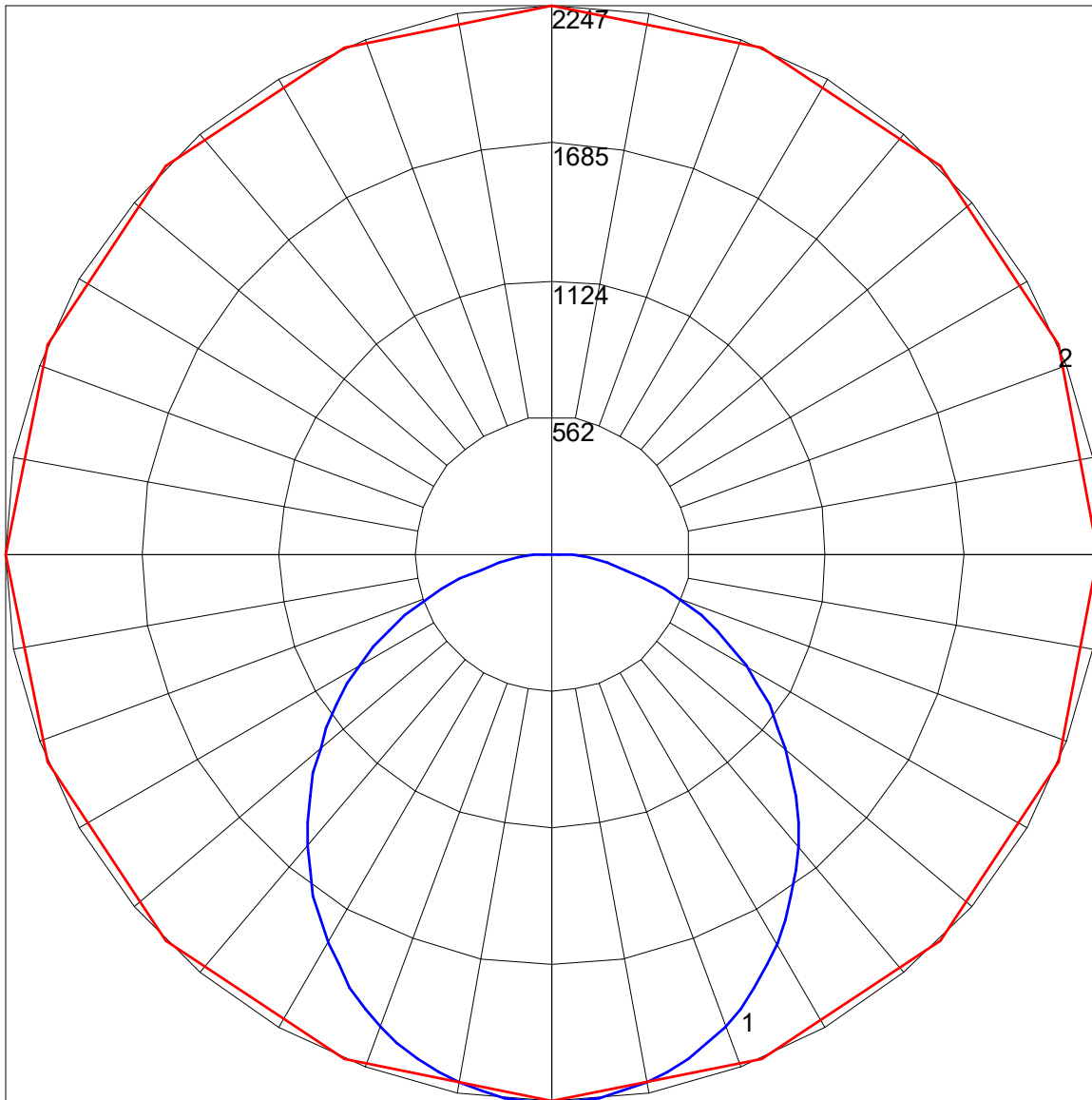
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	58	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 = 2247 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.)