



IES INDOOR REPORT

PHOTOMETRIC FILENAME : XRT44-LED-14L-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-14L-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	13122
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	124
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	2885	2892	2881
55	2740	2730	2715
65	2525	2532	2525
75	2197	2187	2145
85	1326	1326	1296

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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	4839	4839	4839	4839	4839
2.5	4839	4843	4843	4843	4843
5.0	4827	4831	4831	4827	4827
7.5	4799	4803	4799	4799	4799
10.0	4755	4759	4759	4759	4759
12.5	4699	4707	4707	4699	4703
15.0	4631	4635	4635	4631	4635
17.5	4551	4551	4551	4547	4555
20.0	4459	4459	4459	4455	4451
22.5	4358	4354	4354	4350	4346
25.0	4242	4242	4238	4234	4234
27.5	4118	4110	4110	4110	4102
30.0	3985	3977	3973	3977	3969
32.5	3845	3837	3833	3833	3825
35.0	3685	3693	3681	3681	3677
37.5	3532	3536	3528	3528	3520
40.0	3364	3376	3368	3360	3360
42.5	3200	3216	3204	3192	3196
45.0	3035	3043	3043	3027	3031
47.5	2867	2867	2867	2855	2851
50.0	2694	2690	2690	2682	2678
52.5	2518	2518	2514	2506	2494
55.0	2338	2334	2330	2330	2317
57.5	2157	2149	2149	2145	2137
60.0	1969	1969	1965	1965	1957
62.5	1784	1784	1780	1776	1772
65.0	1588	1600	1592	1588	1588
67.5	1403	1415	1407	1395	1403
70.0	1215	1219	1215	1211	1215
72.5	1030	1038	1026	1022	1022
75.0	846	838	842	838	826
77.5	662	650	654	654	646
80.0	489	481	481	477	473
82.5	317	321	317	309	309
85.0	172	180	172	164	168
87.5	68	68	64	56	60
90.0	0	0	0	0	0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1764.96	N.A.	13.50
0-30	3716.00	N.A.	28.30
0-40	6020.19	N.A.	45.90
0-60	10444.17	N.A.	79.60
0-80	12907.00	N.A.	98.40
0-90	13121.69	N.A.	100.00
10-90	12663.05	N.A.	96.50
20-40	4255.23	N.A.	32.40
20-50	6596.12	N.A.	50.30
40-70	5999.18	N.A.	45.70
60-80	2462.83	N.A.	18.80
70-80	887.63	N.A.	6.80
80-90	214.69	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	13121.69	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	458.64
10-20	1306.32
20-30	1951.04
30-40	2304.19
40-50	2340.89
50-60	2083.09
60-70	1575.2
70-80	887.63
80-90	214.69
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

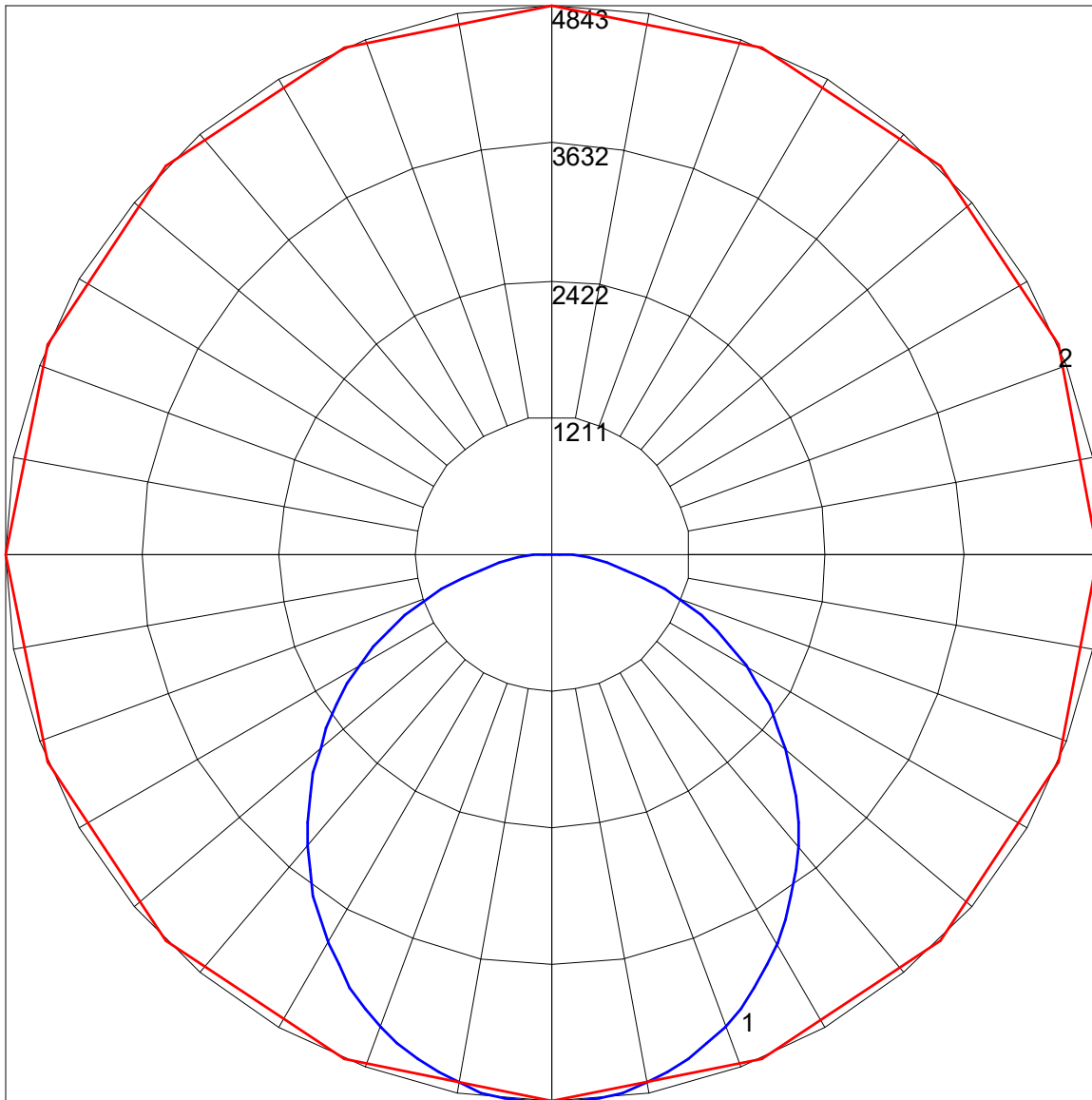
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 4843 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.)