



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : CLRT14-FS1-UNV-40W-3000K.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LED-14651

[TESTLAB] LSI INDUSTRIES, INC.

[TESTDATE] 03/08/24

[ISSUEDATE] 04/15/24

[MANUFAC] LSI INDUSTRIES, INC.

[LUMCAT] CLRT14-FS1-UNV-40W-3000K

[TEST PROCEDURE] IESNA LM-79-19

[\_ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.

[\_FACTORED] SCALED FROM ORIGINAL TEST DATA

[\_SEARCH\_SOURCETYPE] LED

[\_SEARCH\_APPLICATION] Indoor

[\_SEARCH\_COLORTEMP] 4000

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3890
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	99
Total Luminaire Watts	39.4
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.52
Spacing Criterion (90-270)	1.52
Spacing Criterion (Diagonal)	1.68
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	1.00 ft
Luminous Height	0.00 ft

### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2971	2999	3136
55	3418	3566	4081
65	3882	4031	5172
75	4073	4550	6498
85	4421	5032	7952

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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>	839.150	839.150	839.150	839.150	839.150
<b>2.5</b>	852.670	843.657	839.150	837.348	831.038
<b>5.0</b>	857.177	847.262	843.657	840.953	836.446
<b>7.5</b>	860.783	852.670	848.164	845.460	840.953
<b>10.0</b>	865.289	854.473	848.164	845.460	841.854
<b>12.5</b>	866.191	854.473	844.558	843.657	840.953
<b>15.0</b>	864.388	851.769	838.249	840.052	839.150
<b>17.5</b>	859.881	847.262	833.742	837.348	834.644
<b>20.0</b>	853.572	844.558	832.841	837.348	827.433
<b>22.5</b>	846.361	841.854	832.841	833.742	819.321
<b>25.0</b>	839.150	840.052	832.841	831.038	818.419
<b>27.5</b>	834.644	836.446	827.433	828.334	822.025
<b>30.0</b>	832.841	829.236	817.518	825.630	822.926
<b>32.5</b>	830.137	820.222	808.505	818.419	821.123
<b>35.0</b>	824.729	809.406	803.097	810.307	817.518
<b>37.5</b>	818.419	801.294	803.097	809.406	820.222
<b>40.0</b>	807.603	794.083	802.195	814.814	819.321
<b>42.5</b>	794.985	788.675	796.787	822.025	819.321
<b>45.0</b>	781.464	782.366	788.675	825.630	824.729
<b>47.5</b>	767.043	769.747	777.859	825.630	840.953
<b>50.0</b>	754.424	753.523	772.451	829.236	857.177
<b>52.5</b>	741.805	736.397	769.747	834.644	867.993
<b>55.0</b>	729.186	717.469	760.733	832.841	870.697
<b>57.5</b>	711.160	698.541	743.608	824.729	871.599
<b>60.0</b>	685.021	673.303	712.962	807.603	860.783
<b>62.5</b>	653.474	643.559	675.106	788.675	838.249
<b>65.0</b>	610.209	607.505	633.644	758.029	813.011
<b>67.5</b>	561.537	562.438	592.182	713.864	774.254
<b>70.0</b>	507.456	511.963	546.214	666.994	739.101
<b>72.5</b>	449.770	456.080	495.739	616.519	687.725
<b>75.0</b>	392.084	399.295	438.053	559.734	625.532
<b>77.5</b>	333.497	338.905	374.959	496.640	554.326
<b>80.0</b>	270.403	275.811	307.358	419.124	469.600
<b>82.5</b>	210.013	209.112	237.955	334.398	371.353
<b>85.0</b>	143.314	142.412	163.143	234.349	257.784
<b>87.5</b>	75.713	74.811	84.726	118.076	129.793
<b>90.0</b>	0.000	0.000	0.000	0.000	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	320.23	N.A.	8.20
0-30	705.46	N.A.	18.10
0-40	1216.12	N.A.	31.30
0-60	2528.45	N.A.	65.00
0-80	3693.66	N.A.	95.00
0-90	3889.55	N.A.	100.00
10-90	3808.7	N.A.	97.90
20-40	895.89	N.A.	23.00
20-50	1514.51	N.A.	38.90
40-70	1978.76	N.A.	50.90
60-80	1165.21	N.A.	30.00
70-80	498.78	N.A.	12.80
80-90	195.89	N.A.	5.00
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	3889.55	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	80.85
10-20	239.38
20-30	385.23
30-40	510.66
40-50	618.62
50-60	693.72
60-70	666.43
70-80	498.78
80-90	195.89
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	106	100	94	89	103	97	92	88	93	89	85	89	86	82	85	82	80	78
2	94	84	76	69	91	82	75	68	79	72	67	75	70	65	72	67	63	61
3	85	72	63	55	82	71	62	54	67	60	53	65	58	52	62	56	51	49
4	77	63	53	45	74	61	52	45	59	51	44	56	49	43	54	48	43	40
5	70	55	45	38	68	54	45	37	52	43	37	50	42	37	48	41	36	34
6	64	49	39	32	62	48	39	32	46	38	32	45	37	31	43	36	31	29
7	59	44	35	28	57	43	34	28	42	34	27	40	33	27	39	32	27	25
8	55	40	31	24	53	39	31	24	38	30	24	37	29	24	35	29	24	22
9	51	37	28	22	50	36	27	22	35	27	21	34	26	21	33	26	21	19
10	48	34	25	19	46	33	25	19	32	24	19	31	24	19	30	24	19	17

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**UGR TABLE - CORRECTED**

Reflectances

Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

Room Size      UGR Viewed Crosswise

X=2H	Y=2H	16.6	18.4	17.0	18.7	19.1	UGR Viewed Endwise			
	3H	19.1	20.8	19.5	21.1	21.5	17.8	19.6	18.2	20.0
	4H	20.1	21.7	20.5	22.1	22.5	20.8	22.5	21.2	22.8
	6H	21.0	22.5	21.4	22.9	23.3	22.2	23.8	22.6	24.1
	8H	21.4	22.8	21.8	23.2	23.6	23.4	24.9	23.8	25.3
	12H	21.6	23.0	22.1	23.4	23.8	23.9	25.4	24.4	25.7
							24.3	25.7	24.8	26.1

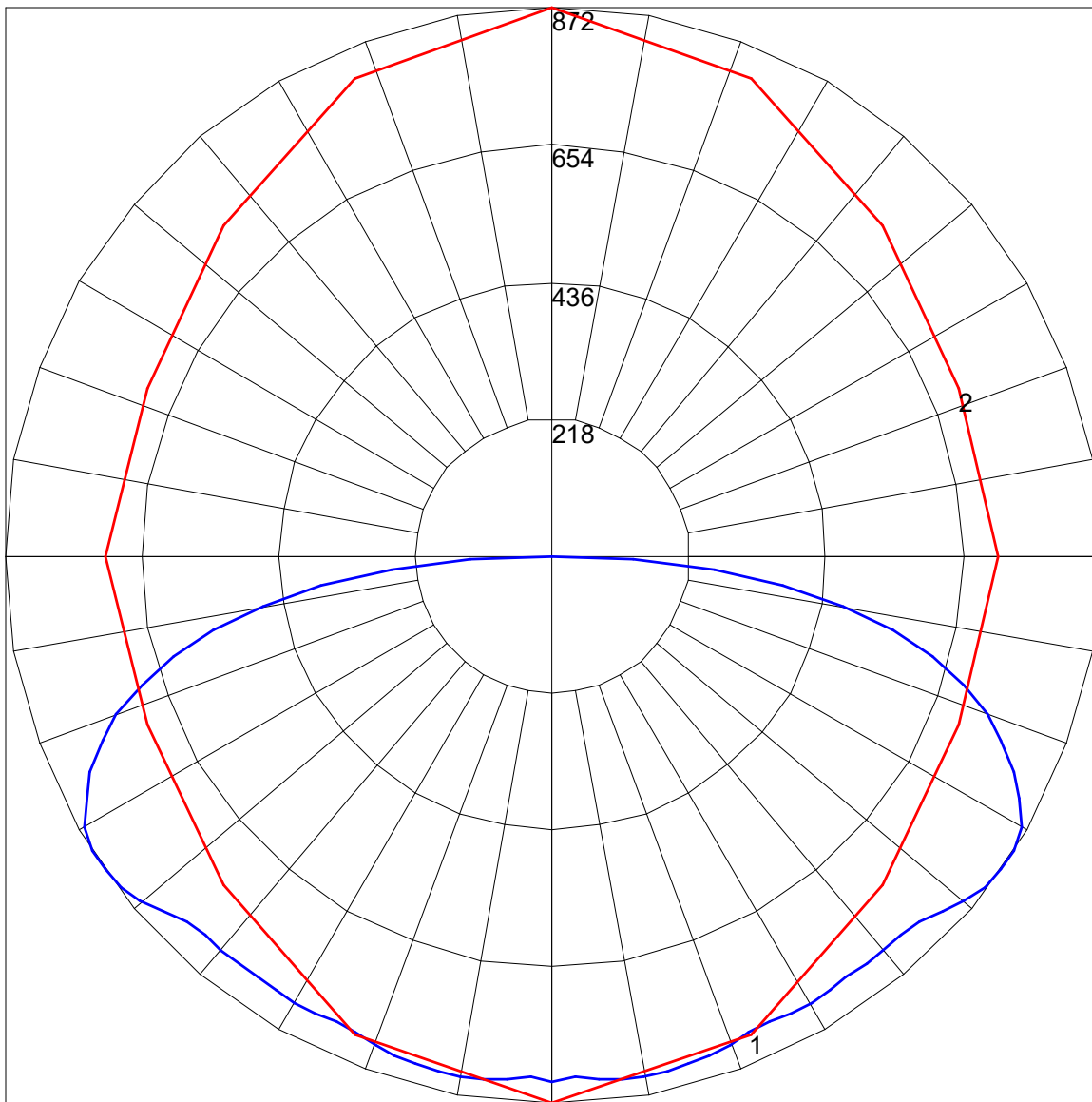
4H	2H	17.6	19.2	18.0	19.5	19.9	18.5	20.1	18.9	20.4
	3H	20.3	21.7	20.7	22.0	22.4	21.7	23.1	22.1	23.5
	4H	21.4	22.7	21.9	23.1	23.5	23.3	24.5	23.7	24.9
	6H	22.5	23.6	22.9	24.0	24.4	24.7	25.8	25.2	26.3
	8H	22.8	23.9	23.3	24.3	24.8	25.3	26.3	25.7	26.8
	12H	23.2	24.1	23.7	24.6	25.1	25.8	26.8	26.3	27.2

8H	4H	22.1	23.1	22.5	23.6	24.0	23.6	24.7	24.1	25.1
	6H	23.2	24.1	23.7	24.6	25.1	25.2	26.1	25.7	26.6
	8H	23.7	24.5	24.2	25.0	25.5	26.0	26.8	26.5	27.3
	12H	24.2	24.9	24.7	25.4	25.9	26.6	27.4	27.1	27.8

12H	4H	22.2	23.2	22.7	23.7	24.1	23.7	24.6	24.2	25.1
	6H	23.5	24.3	24.0	24.7	25.2	25.4	26.1	25.9	26.6
	8H	24.0	24.7	24.5	25.2	25.8	26.1	26.8	26.6	27.3

Maximum UGR = 28.4

POLAR GRAPH



Maximum Candela = 871.599 Located At Horizontal Angle = 90, Vertical Angle = 57.5  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (57.5) (Through Max. Cd.)