



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : CLRT14-FS1-UNV-30W-4000K.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LED-14650

[TESTLAB] LSI INDUSTRIES, INC.

[TESTDATE] 03/08/24

[ISSUEDATE] 04/15/24

[MANUFAC] LSI INDUSTRIES, INC.

[LUMCAT] CLRT14-FS1-UNV-30W-4000K

[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	3309
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	113
Total Luminaire Watts	29.4
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	2528	2547	2669
55	2906	3037	3473
65	3308	3442	4377
75	3459	3875	5536
85	3825	4319	6694

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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>	714	714	714	714	714
<b>2.5</b>	726	718	715	712	708
<b>5.0</b>	730	722	719	716	712
<b>7.5</b>	733	726	722	720	716
<b>10.0</b>	736	727	722	720	717
<b>12.5</b>	736	727	719	717	715
<b>15.0</b>	735	725	713	714	714
<b>17.5</b>	732	722	710	714	711
<b>20.0</b>	727	720	709	713	705
<b>22.5</b>	720	718	710	711	698
<b>25.0</b>	715	715	709	707	696
<b>27.5</b>	711	712	704	705	699
<b>30.0</b>	709	705	695	703	700
<b>32.5</b>	705	697	687	696	698
<b>35.0</b>	701	689	684	690	696
<b>37.5</b>	697	682	684	689	698
<b>40.0</b>	688	676	683	694	697
<b>42.5</b>	677	672	678	700	696
<b>45.0</b>	665	665	670	703	702
<b>47.5</b>	653	656	662	703	716
<b>50.0</b>	642	642	658	706	729
<b>52.5</b>	632	625	655	710	739
<b>55.0</b>	620	610	648	708	741
<b>57.5</b>	604	592	632	701	741
<b>60.0</b>	584	573	607	688	733
<b>62.5</b>	556	549	576	669	713
<b>65.0</b>	520	518	541	644	688
<b>67.5</b>	479	480	505	606	658
<b>70.0</b>	433	436	464	566	627
<b>72.5</b>	382	388	422	524	584
<b>75.0</b>	333	336	373	477	533
<b>77.5</b>	280	285	320	423	473
<b>80.0</b>	230	233	261	357	403
<b>82.5</b>	178	179	201	283	315
<b>85.0</b>	124	124	140	198	217
<b>87.5</b>	67	66	74	99	104
<b>90.0</b>	0	0	0	0	0

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	272.60	N.A.	8.20
0-30	600.59	N.A.	18.10
0-40	1035.12	N.A.	31.30
0-60	2151.7	N.A.	65.00
0-80	3142.74	N.A.	95.00
0-90	3309.45	N.A.	100.00
10-90	3240.61	N.A.	97.90
20-40	762.52	N.A.	23.00
20-50	1289.08	N.A.	39.00
40-70	1683.79	N.A.	50.90
60-80	991.04	N.A.	29.90
70-80	423.84	N.A.	12.80
80-90	166.71	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	3309.45	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	68.84
10-20	203.76
20-30	327.99
30-40	434.53
40-50	526.57
50-60	590.02
60-70	567.20
70-80	423.84
80-90	166.71
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	55	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**

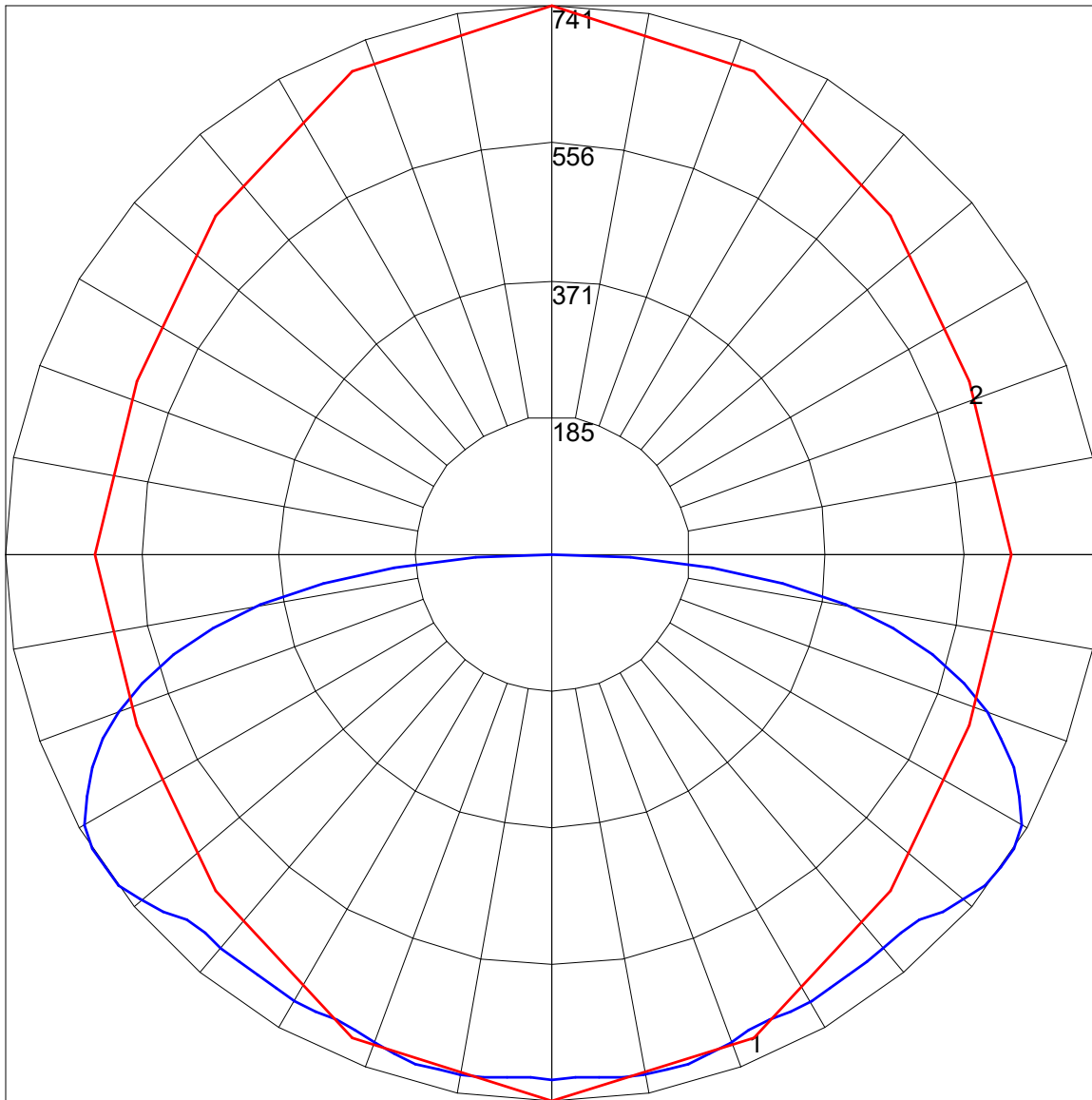
Reflectances

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					UGR Viewed Endwise				
X=2H	Y=2H	16.1	17.9	16.4	18.2	18.5	17.3	19.1	17.7	19.5	19.8
	3H	18.6	20.3	19.0	20.6	21.0	20.3	22.0	20.7	22.3	22.7
	4H	19.6	21.2	20.0	21.6	22.0	21.7	23.3	22.1	23.6	24.0
	6H	20.5	22.0	20.9	22.3	22.7	22.9	24.4	23.3	24.8	25.2
	8H	20.8	22.3	21.3	22.7	23.0	23.4	24.9	23.9	25.3	25.6
	12H	21.1	22.5	21.6	22.9	23.3	23.8	25.2	24.3	25.6	26.0
4H	2H	17.1	18.6	17.4	19.0	19.4	18.0	19.6	18.4	19.9	20.3
	3H	19.8	21.2	20.2	21.5	21.9	21.2	22.6	21.6	23.0	23.4
	4H	20.9	22.2	21.4	22.6	23.0	22.8	24.0	23.2	24.4	24.9
	6H	21.9	23.0	22.4	23.5	23.9	24.2	25.3	24.7	25.8	26.2
	8H	22.3	23.4	22.8	23.8	24.3	24.8	25.8	25.3	26.3	26.7
	12H	22.7	23.6	23.1	24.1	24.6	25.3	26.3	25.8	26.7	27.2
8H	4H	21.6	22.6	22.0	23.0	23.5	23.1	24.2	23.6	24.6	25.1
	6H	22.7	23.6	23.2	24.1	24.5	24.7	25.6	25.2	26.1	26.6
	8H	23.2	24.0	23.7	24.5	25.0	25.5	26.3	26.0	26.8	27.3
	12H	23.7	24.4	24.2	24.9	25.4	26.1	26.8	26.6	27.3	27.9
12H	4H	21.7	22.7	22.2	23.1	23.6	23.2	24.1	23.7	24.6	25.1
	6H	22.9	23.7	23.5	24.2	24.7	24.9	25.7	25.4	26.1	26.6
	8H	23.5	24.2	24.0	24.7	25.2	25.6	26.3	26.1	26.8	27.4

Maximum UGR = 27.9

POLAR GRAPH



Maximum Candela = 741 Located At Horizontal Angle = 90, Vertical Angle = 55  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (55) (Through Max. Cd.)