



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : CLRT14-FS1-UNV-40W-4000K.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-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	4315
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	110
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	3296	3327	3479
55	3792	3956	4528
65	4307	4472	5738
75	4519	5048	7209
85	4905	5583	8822

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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>	931	931	931	931	931
<b>2.5</b>	946	936	931	929	922
<b>5.0</b>	951	940	936	933	928
<b>7.5</b>	955	946	941	938	933
<b>10.0</b>	960	948	941	938	934
<b>12.5</b>	961	948	937	936	933
<b>15.0</b>	959	945	930	932	931
<b>17.5</b>	954	940	925	929	926
<b>20.0</b>	947	937	924	929	918
<b>22.5</b>	939	934	924	925	909
<b>25.0</b>	931	932	924	922	908
<b>27.5</b>	926	928	918	919	912
<b>30.0</b>	924	920	907	916	913
<b>32.5</b>	921	910	897	908	911
<b>35.0</b>	915	898	891	899	907
<b>37.5</b>	908	889	891	898	910
<b>40.0</b>	896	881	890	904	909
<b>42.5</b>	882	875	884	912	909
<b>45.0</b>	867	868	875	916	915
<b>47.5</b>	851	854	863	916	933
<b>50.0</b>	837	836	857	920	951
<b>52.5</b>	823	817	854	926	963
<b>55.0</b>	809	796	844	924	966
<b>57.5</b>	789	775	825	915	967
<b>60.0</b>	760	747	791	896	955
<b>62.5</b>	725	714	749	875	930
<b>65.0</b>	677	674	703	841	902
<b>67.5</b>	623	624	657	792	859
<b>70.0</b>	563	568	606	740	820
<b>72.5</b>	499	506	550	684	763
<b>75.0</b>	435	443	486	621	694
<b>77.5</b>	370	376	416	551	615
<b>80.0</b>	300	306	341	465	521
<b>82.5</b>	233	232	264	371	412
<b>85.0</b>	159	158	181	260	286
<b>87.5</b>	84	83	94	131	144
<b>90.0</b>	0	0	0	0	0

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	355.28	N.A.	8.20
0-30	782.68	N.A.	18.10
0-40	1349.23	N.A.	31.30
0-60	2805.21	N.A.	65.00
0-80	4097.95	N.A.	95.00
0-90	4315.28	N.A.	100.00
10-90	4225.58	N.A.	97.90
20-40	993.95	N.A.	23.00
20-50	1680.28	N.A.	38.90
40-70	2195.35	N.A.	50.90
60-80	1292.74	N.A.	30.00
70-80	553.37	N.A.	12.80
80-90	217.33	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	4315.28	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	89.70
10-20	265.58
20-30	427.40
30-40	566.55
40-50	686.33
50-60	769.65
60-70	739.37
70-80	553.37
80-90	217.33
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**

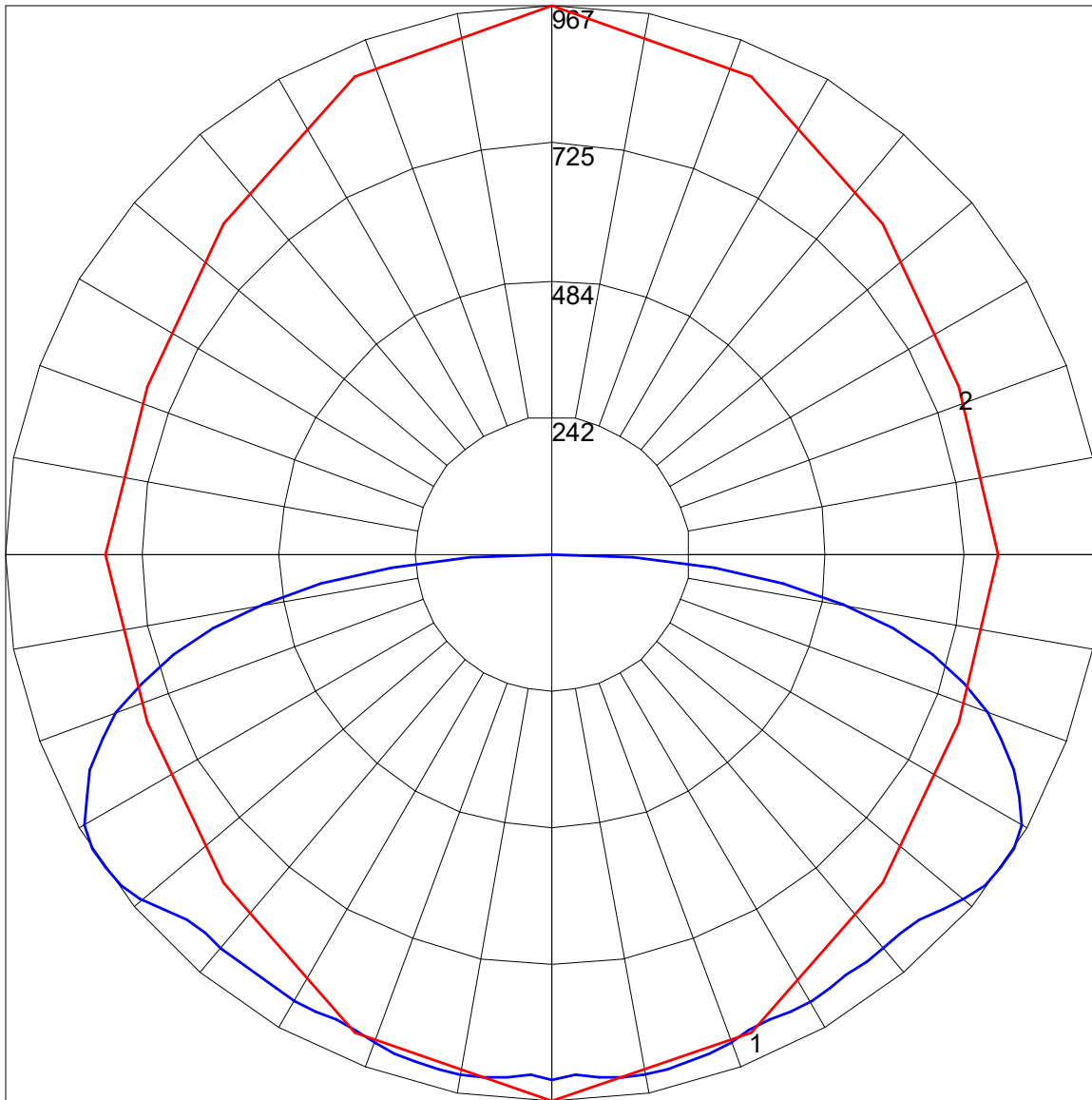
Reflectances

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	17.0	18.8	17.4	19.1	19.5	18.2	20.0	18.6	20.4	20.7
	3H	19.5	21.2	19.9	21.5	21.9	21.2	22.9	21.6	23.2	23.6
	4H	20.5	22.1	20.9	22.5	22.9	22.6	24.2	23.0	24.5	24.9
	6H	21.4	22.9	21.8	23.3	23.7	23.8	25.3	24.2	25.7	26.1
	8H	21.8	23.2	22.2	23.6	24.0	24.3	25.8	24.8	26.1	26.5
	12H	22.0	23.4	22.5	23.8	24.2	24.7	26.1	25.2	26.5	26.9
4H	2H	18.0	19.6	18.4	19.9	20.3	18.9	20.5	19.3	20.8	21.2
	3H	20.7	22.1	21.1	22.4	22.8	22.1	23.5	22.5	23.9	24.3
	4H	21.8	23.1	22.3	23.5	23.9	23.7	24.9	24.1	25.3	25.8
	6H	22.9	24.0	23.3	24.4	24.8	25.1	26.2	25.6	26.7	27.1
	8H	23.2	24.3	23.7	24.7	25.2	25.7	26.7	26.1	27.2	27.6
	12H	23.6	24.5	24.1	25.0	25.5	26.2	27.2	26.7	27.6	28.1
8H	4H	22.5	23.5	22.9	24.0	24.4	24.0	25.1	24.5	25.5	26.0
	6H	23.6	24.5	24.1	25.0	25.5	25.6	26.5	26.1	27.0	27.5
	8H	24.1	24.9	24.6	25.4	25.9	26.4	27.2	26.9	27.7	28.2
	12H	24.6	25.3	25.1	25.8	26.3	27.0	27.8	27.5	28.2	28.8
12H	4H	22.6	23.6	23.1	24.1	24.5	24.1	25.0	24.6	25.5	26.0
	6H	23.9	24.7	24.4	25.1	25.6	25.8	26.5	26.3	27.0	27.5
	8H	24.4	25.1	24.9	25.6	26.2	26.5	27.2	27.0	27.7	28.3

Maximum UGR = 28.8

POLAR GRAPH



Maximum Candela = 967 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.)