



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : CLRT14-FS1-UNV-40W-3500K.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-3500K  
[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	4192
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	106
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	3202	3232	3380
55	3684	3843	4399
65	4184	4344	5574
75	4390	4904	7003
85	4765	5424	8570

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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>	904.423	904.423	904.423	904.423	904.423
<b>2.5</b>	918.995	909.280	904.423	902.480	895.680
<b>5.0</b>	923.852	913.166	909.280	906.366	901.508
<b>7.5</b>	927.738	918.995	914.137	911.223	906.366
<b>10.0</b>	932.595	920.937	914.137	911.223	907.337
<b>12.5</b>	933.566	920.937	910.251	909.280	906.366
<b>15.0</b>	931.623	918.023	903.451	905.394	904.423
<b>17.5</b>	926.766	913.166	898.594	902.480	899.565
<b>20.0</b>	919.966	910.251	897.623	902.480	891.794
<b>22.5</b>	912.194	907.337	897.623	898.594	883.051
<b>25.0</b>	904.423	905.394	897.623	895.680	882.079
<b>27.5</b>	899.565	901.508	891.794	892.765	885.965
<b>30.0</b>	897.623	893.737	881.108	889.851	886.937
<b>32.5</b>	894.708	884.022	871.393	882.079	884.994
<b>35.0</b>	888.880	872.365	865.565	873.336	881.108
<b>37.5</b>	882.079	863.622	865.565	872.365	884.022
<b>40.0</b>	870.422	855.850	864.593	878.194	883.051
<b>42.5</b>	856.822	850.021	858.764	885.965	883.051
<b>45.0</b>	842.250	843.221	850.021	889.851	888.880
<b>47.5</b>	826.707	829.621	838.364	889.851	906.366
<b>50.0</b>	813.106	812.135	832.535	893.737	923.852
<b>52.5</b>	799.506	793.677	829.621	899.565	935.509
<b>55.0</b>	785.905	773.277	819.906	897.623	938.424
<b>57.5</b>	766.476	752.876	801.449	888.880	939.395
<b>60.0</b>	738.304	725.675	768.419	870.422	927.738
<b>62.5</b>	704.303	693.617	727.618	850.021	903.451
<b>65.0</b>	657.674	654.759	682.931	816.992	876.251
<b>67.5</b>	605.215	606.187	638.245	769.391	834.478
<b>70.0</b>	546.928	551.785	588.701	718.875	796.591
<b>72.5</b>	484.755	491.555	534.299	664.474	741.219
<b>75.0</b>	422.582	430.354	472.126	603.272	674.188
<b>77.5</b>	359.438	365.266	404.124	535.271	597.444
<b>80.0</b>	291.436	297.265	331.265	451.726	506.127
<b>82.5</b>	226.349	225.377	256.464	360.409	400.239
<b>85.0</b>	154.461	153.490	175.833	252.578	277.836
<b>87.5</b>	81.602	80.631	91.317	127.260	139.889
<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	345.13	N.A.	8.20
0-30	760.33	N.A.	18.10
0-40	1310.71	N.A.	31.30
0-60	2725.13	N.A.	65.00
0-80	3980.97	N.A.	95.00
0-90	4192.09	N.A.	100.00
10-90	4104.95	N.A.	97.90
20-40	965.57	N.A.	23.00
20-50	1632.32	N.A.	38.90
40-70	2132.68	N.A.	50.90
60-80	1255.84	N.A.	30.00
70-80	537.58	N.A.	12.80
80-90	211.12	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	4192.09	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	87.14
10-20	258.00
20-30	415.20
30-40	550.38
40-50	666.74
50-60	747.68
60-70	718.26
70-80	537.58
80-90	211.12
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**

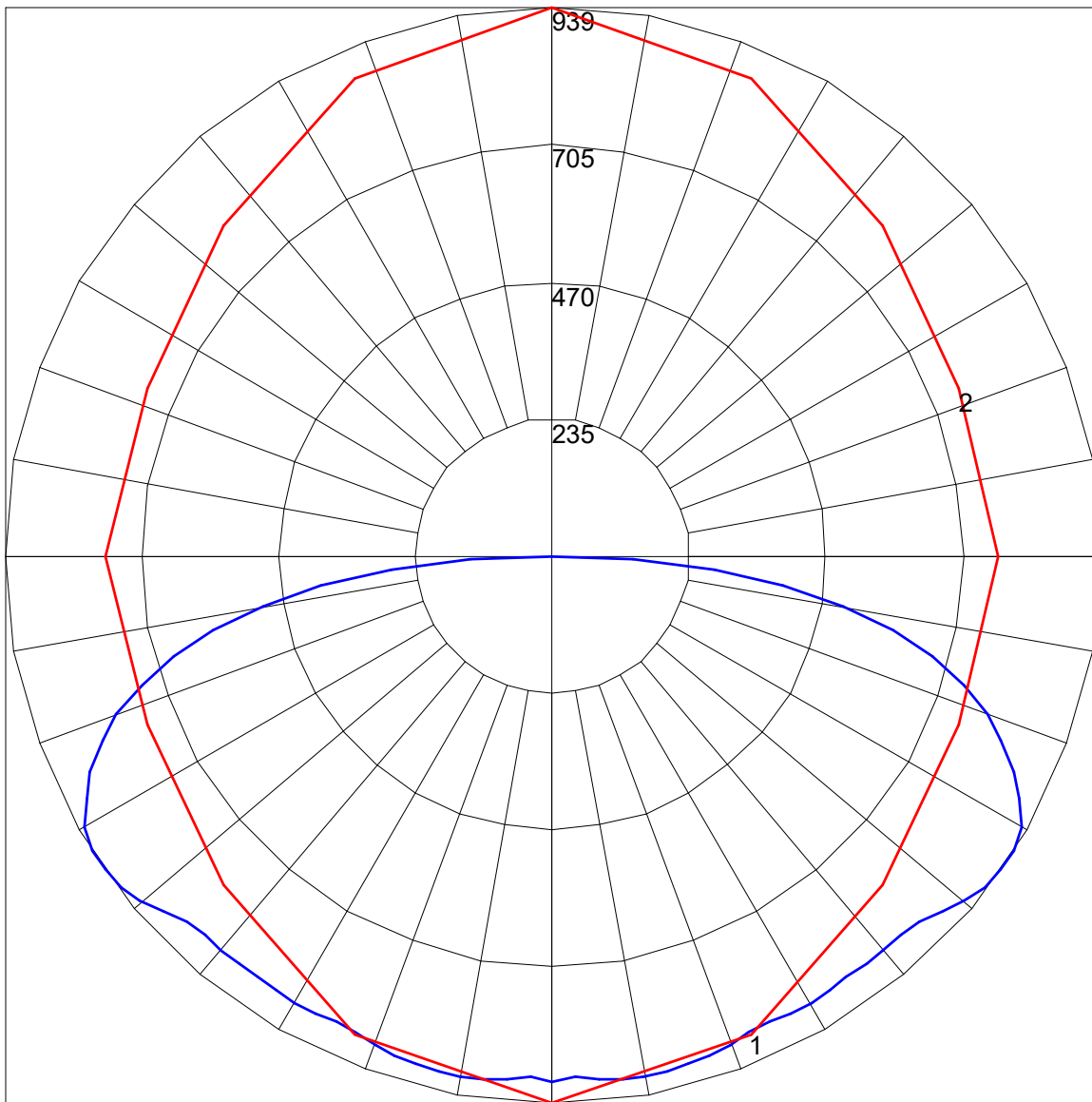
Reflectances

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	16.9	18.7	17.3	19.0	19.4	18.1	19.9	18.5	20.3	20.6
	3H	19.4	21.1	19.8	21.4	21.8	21.1	22.8	21.5	23.1	23.5
	4H	20.4	22.0	20.8	22.4	22.8	22.5	24.1	22.9	24.4	24.8
	6H	21.3	22.8	21.7	23.2	23.6	23.7	25.2	24.1	25.6	26.0
	8H	21.7	23.1	22.1	23.5	23.9	24.2	25.7	24.7	26.0	26.4
	12H	21.9	23.3	22.4	23.7	24.1	24.6	26.0	25.1	26.4	26.8
4H	2H	17.9	19.5	18.3	19.8	20.2	18.8	20.4	19.2	20.7	21.1
	3H	20.6	22.0	21.0	22.3	22.7	22.0	23.4	22.4	23.8	24.2
	4H	21.7	23.0	22.2	23.4	23.8	23.6	24.8	24.0	25.2	25.7
	6H	22.8	23.9	23.2	24.3	24.7	25.0	26.1	25.5	26.6	27.0
	8H	23.1	24.2	23.6	24.6	25.1	25.6	26.6	26.0	27.1	27.5
	12H	23.5	24.4	24.0	24.9	25.4	26.1	27.1	26.6	27.5	28.0
8H	4H	22.4	23.4	22.8	23.9	24.3	23.9	25.0	24.4	25.4	25.9
	6H	23.5	24.4	24.0	24.9	25.4	25.5	26.4	26.0	26.9	27.4
	8H	24.0	24.8	24.5	25.3	25.8	26.3	27.1	26.8	27.6	28.1
	12H	24.5	25.2	25.0	25.7	26.2	26.9	27.7	27.4	28.1	28.7
12H	4H	22.5	23.5	23.0	24.0	24.4	24.0	24.9	24.5	25.4	25.9
	6H	23.8	24.6	24.3	25.0	25.5	25.7	26.4	26.2	26.9	27.4
	8H	24.3	25.0	24.8	25.5	26.1	26.4	27.1	26.9	27.6	28.2

Maximum UGR = 28.7

POLAR GRAPH



Maximum Candela = 939.395 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.)