



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : CLRT22-FS1-UNV-40W-3000K.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] LED-13107  
 [TESTLAB] LSI INDUSTRIES, INC.  
 [ISSUEDATE] 2/24/2022  
 [TESTDATE] 12/09/21  
 [MANUFAC] LSI INDUSTRIES, INC.  
 [LUMCAT] CLRT22-FS1-UNV-40W-3000K  
 [OTHER] TEST PROCEDURE: IESNA LM-79-08  
 [ ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED  
 [OTHER] SCALED FROM ORIGINAL TEST DATA  
 [ SEARCH\_SOURCETYPE] LED  
 [ SEARCH\_APPLICATION] Indoor  
 [ SEARCH\_COLORTEMP] 3000

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3699
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	96
Total Luminaire Watts	38.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.48
Spacing Criterion (90-270)	1.58
Spacing Criterion (Diagonal)	1.70
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	2.00 ft
Luminous Width (90-270)	2.00 ft
Luminous Height	0.00 ft



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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2764	2928	3186
55	3056	3473	3989
65	3505	4122	5146
75	3511	4519	5599
85	3578	4072	5151

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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>	797	797	797	797	797
<b>2.5</b>	808	804	798	792	790
<b>5.0</b>	812	808	803	797	794
<b>7.5</b>	815	812	806	800	798
<b>10.0</b>	817	814	807	802	801
<b>12.5</b>	815	812	805	802	803
<b>15.0</b>	810	810	803	800	805
<b>17.5</b>	803	807	801	800	805
<b>20.0</b>	799	805	802	802	806
<b>22.5</b>	798	803	803	805	804
<b>25.0</b>	797	798	802	808	801
<b>27.5</b>	794	790	799	808	801
<b>30.0</b>	787	781	794	807	806
<b>32.5</b>	777	774	790	807	812
<b>35.0</b>	763	769	787	807	818
<b>37.5</b>	750	764	785	808	823
<b>40.0</b>	742	758	782	808	827
<b>42.5</b>	735	748	777	812	833
<b>45.0</b>	727	736	770	816	838
<b>47.5</b>	716	725	765	818	840
<b>50.0</b>	697	714	761	817	840
<b>52.5</b>	675	702	753	811	844
<b>55.0</b>	652	685	741	806	851
<b>57.5</b>	630	662	724	802	856
<b>60.0</b>	608	633	701	795	852
<b>62.5</b>	582	603	676	778	836
<b>65.0</b>	551	572	648	747	809
<b>67.5</b>	507	537	610	702	770
<b>70.0</b>	455	496	563	645	716
<b>72.5</b>	398	447	505	574	638
<b>75.0</b>	338	391	435	491	539
<b>77.5</b>	279	329	358	403	423
<b>80.0</b>	223	264	275	315	325
<b>82.5</b>	170	198	198	238	243
<b>85.0</b>	116	131	132	164	167
<b>87.5</b>	61	67	66	83	86
<b>90.0</b>	0	0	0	0	0

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	304.93	N.A.	8.20
0-30	675.35	N.A.	18.30
0-40	1170.62	N.A.	31.60
0-60	2437.85	N.A.	65.90
0-80	3545.14	N.A.	95.80
0-90	3699.06	N.A.	100.00
10-90	3622.28	N.A.	97.90
20-40	865.70	N.A.	23.40
20-50	1466.09	N.A.	39.60
40-70	1916.18	N.A.	51.80
60-80	1107.3	N.A.	29.90
70-80	458.34	N.A.	12.40
80-90	153.92	N.A.	4.20
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	3699.06	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	76.79
10-20	228.14
20-30	370.42
30-40	495.28
40-50	600.39
50-60	666.83
60-70	648.95
70-80	458.34
80-90	153.92
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

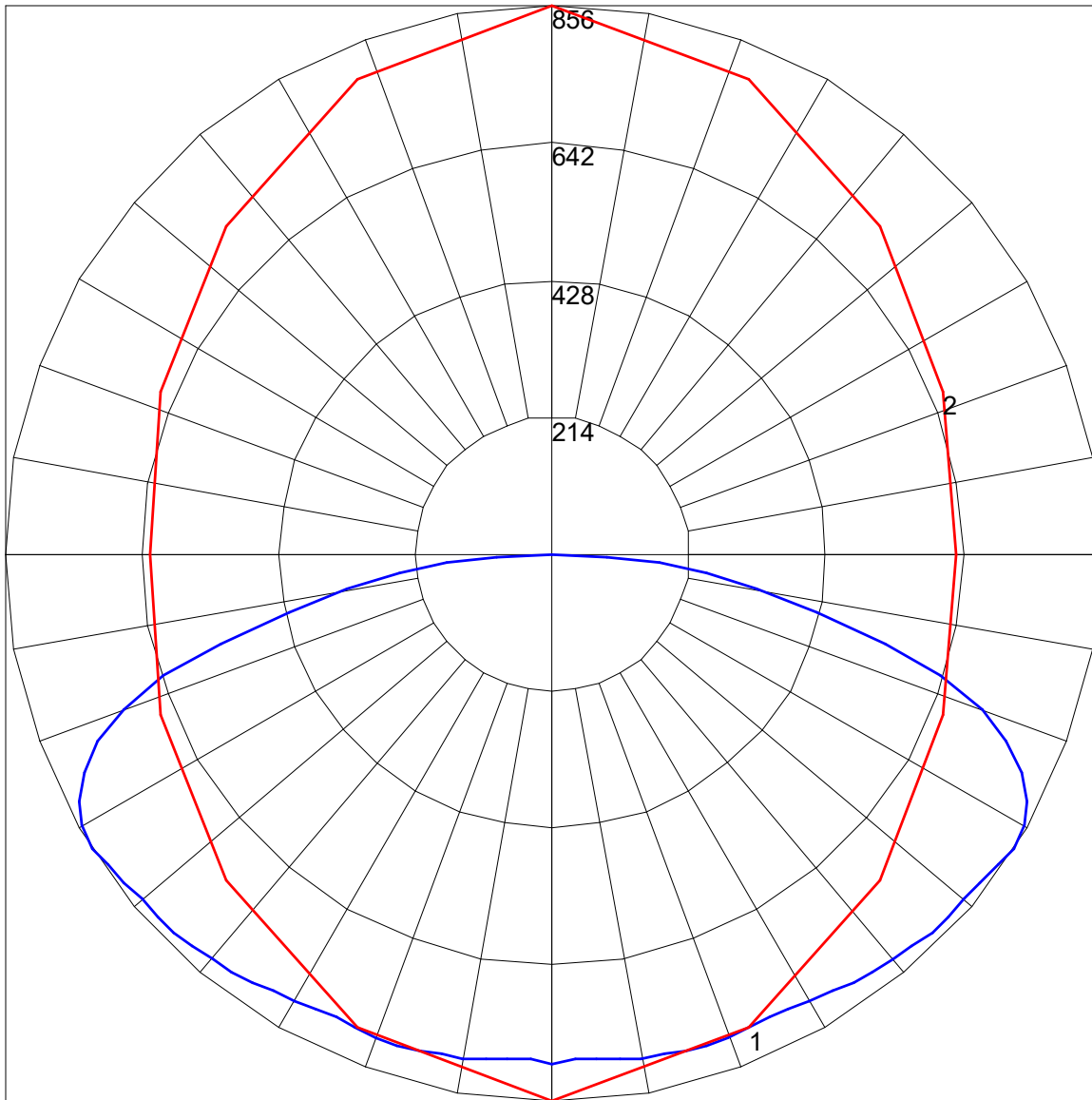
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	95	90	103	98	93	89	94	90	86	90	86	83	86	83	81	78
2	95	85	77	70	92	83	75	69	79	73	67	76	70	66	73	68	64	62
3	85	73	63	56	82	71	62	55	68	60	54	65	59	53	62	57	52	50
4	77	63	53	46	75	62	52	45	59	51	45	57	50	44	54	48	43	41
5	70	56	46	38	68	55	45	38	52	44	37	50	43	37	48	42	37	34
6	64	50	40	33	62	49	39	32	47	38	32	45	37	32	43	37	31	29
7	59	45	35	28	58	44	35	28	42	34	28	41	33	28	39	32	27	25
8	55	40	31	25	53	40	31	25	38	30	24	37	30	24	36	29	24	22
9	51	37	28	22	50	36	28	22	35	27	22	34	27	22	33	26	21	19
10	48	34	25	20	47	33	25	20	32	25	19	31	24	19	30	24	19	17

POLAR GRAPH



Maximum Candela = 856 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.)