



IES INDOOR REPORT

PHOTOMETRIC FILENAME : CLRT14-FS1-UNV-30W-3000K.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-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	2983
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	101
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	2279	2296	2406
55	2619	2738	3131
65	2982	3102	3945
75	3118	3492	4990
85	3448	3892	6033

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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>
0.0	643.559	643.559	643.559	643.559	643.559
2.5	654.375	647.164	644.460	641.756	638.151
5.0	657.980	650.770	648.066	645.362	641.756
7.5	660.684	654.375	650.770	648.967	645.362
10.0	663.388	655.276	650.770	648.967	646.263
12.5	663.388	655.276	648.066	646.263	644.460
15.0	662.487	653.474	642.658	643.559	643.559
17.5	659.783	650.770	639.954	643.559	640.855
20.0	655.276	648.967	639.052	642.658	635.447
22.5	648.967	647.164	639.954	640.855	629.137
25.0	644.460	644.460	639.052	637.249	627.335
27.5	640.855	641.756	634.545	635.447	630.039
30.0	639.052	635.447	626.433	633.644	630.940
32.5	635.447	628.236	619.223	627.335	629.137
35.0	631.841	621.025	616.519	621.927	627.335
37.5	628.236	614.716	616.519	621.025	629.137
40.0	620.124	609.308	615.617	625.532	628.236
42.5	610.209	605.702	611.111	630.940	627.335
45.0	599.393	599.393	603.900	633.644	632.743
47.5	588.577	591.281	596.689	633.644	645.362
50.0	578.662	578.662	593.084	636.348	657.079
52.5	569.649	563.339	590.380	639.954	666.092
55.0	558.833	549.819	584.070	638.151	667.895
57.5	544.411	533.595	569.649	631.841	667.895
60.0	526.384	516.470	547.115	620.124	660.684
62.5	501.147	494.837	519.174	602.998	642.658
65.0	468.698	466.896	487.627	580.465	620.124
67.5	431.743	432.645	455.178	546.214	593.084
70.0	390.282	392.986	418.223	510.160	565.142
72.5	344.313	349.721	380.367	472.304	526.384
75.0	300.147	302.851	336.201	429.941	480.416
77.5	252.376	256.883	288.430	381.268	426.335
80.0	207.309	210.013	235.251	321.779	363.241
82.5	160.439	161.340	181.170	255.080	283.923
85.0	111.767	111.767	126.188	178.466	195.591
87.5	60.390	59.489	66.699	89.233	93.740
90.0	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	245.71	N.A.	8.20
0-30	541.34	N.A.	18.10
0-40	932.99	N.A.	31.30
0-60	1939.42	N.A.	65.00
0-80	2832.69	N.A.	95.00
0-90	2982.95	N.A.	100.00
10-90	2920.9	N.A.	97.90
20-40	687.29	N.A.	23.00
20-50	1161.91	N.A.	39.00
40-70	1517.67	N.A.	50.90
60-80	893.27	N.A.	29.90
70-80	382.02	N.A.	12.80
80-90	150.26	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	2982.95	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	62.05
10-20	183.66
20-30	295.63
30-40	391.66
40-50	474.62
50-60	531.81
60-70	511.24
70-80	382.02
80-90	150.26
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

X=2H	Y=2H	15.7	17.5	16.0	17.8	18.1	16.9	18.7	17.3	19.1	19.4
	3H	18.2	19.9	18.6	20.2	20.6	19.9	21.6	20.3	21.9	22.3
	4H	19.2	20.8	19.6	21.2	21.6	21.3	22.9	21.7	23.2	23.6
	6H	20.1	21.6	20.5	21.9	22.3	22.5	24.0	22.9	24.4	24.8
	8H	20.4	21.9	20.9	22.3	22.6	23.0	24.5	23.5	24.9	25.2
	12H	20.7	22.1	21.2	22.5	22.9	23.4	24.8	23.9	25.2	25.6

UGR Viewed Endwise

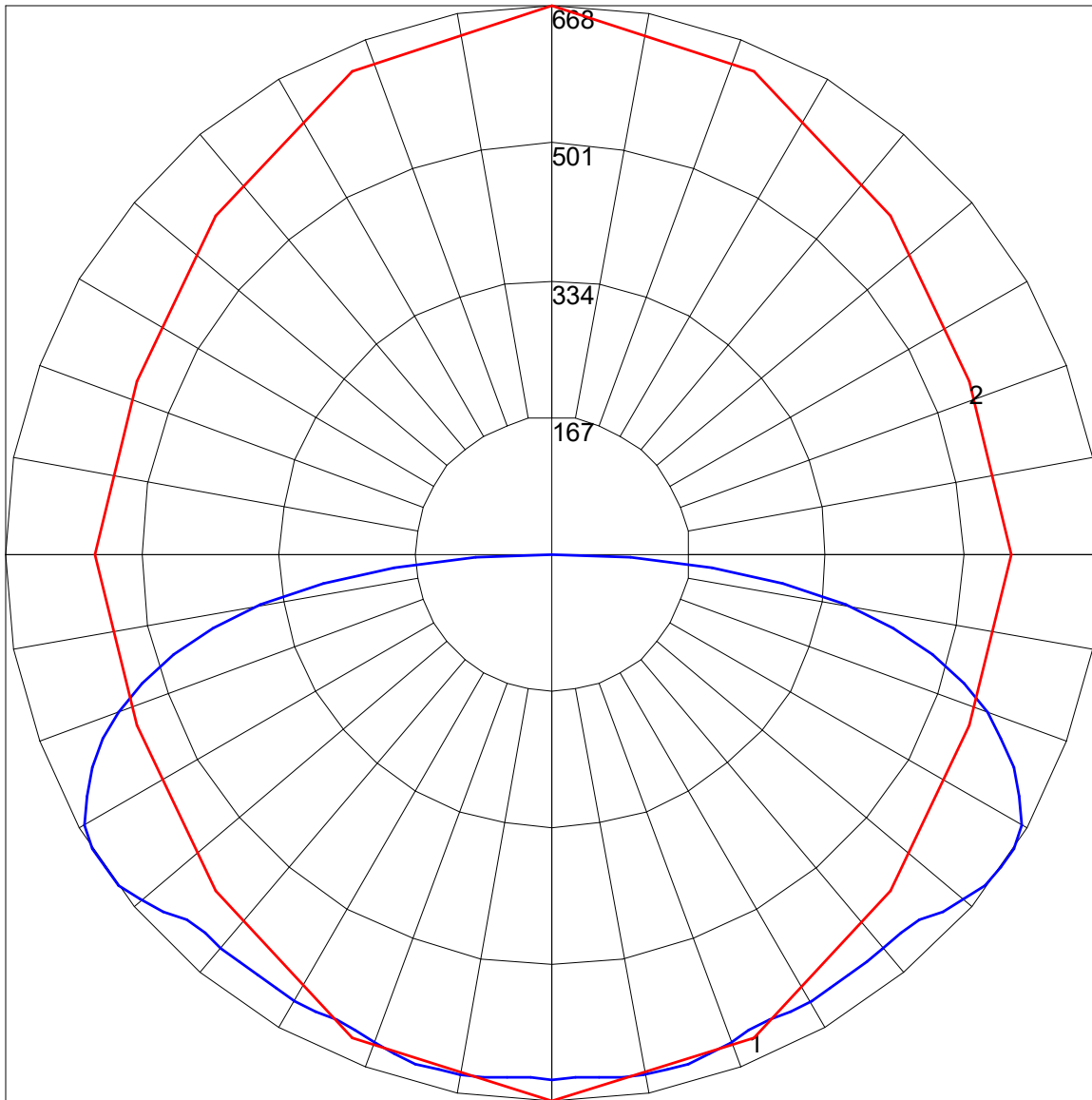
4H	2H	16.7	18.2	17.0	18.6	19.0	17.6	19.2	18.0	19.5	19.9
	3H	19.4	20.8	19.8	21.1	21.5	20.8	22.2	21.2	22.6	23.0
	4H	20.5	21.8	21.0	22.2	22.6	22.4	23.6	22.8	24.0	24.5
	6H	21.5	22.6	22.0	23.1	23.5	23.8	24.9	24.3	25.4	25.8
	8H	21.9	23.0	22.4	23.4	23.9	24.4	25.4	24.9	25.9	26.3
	12H	22.3	23.2	22.7	23.7	24.2	24.9	25.9	25.4	26.3	26.8

8H	4H	21.2	22.2	21.6	22.6	23.1	22.7	23.8	23.2	24.2	24.7
	6H	22.3	23.2	22.8	23.7	24.1	24.3	25.2	24.8	25.7	26.2
	8H	22.8	23.6	23.3	24.1	24.6	25.1	25.9	25.6	26.4	26.9
	12H	23.3	24.0	23.8	24.5	25.0	25.7	26.4	26.2	26.9	27.5

12H	4H	21.3	22.3	21.8	22.7	23.2	22.8	23.7	23.3	24.2	24.7
	6H	22.5	23.3	23.1	23.8	24.3	24.5	25.3	25.0	25.7	26.2
	8H	23.1	23.8	23.6	24.3	24.8	25.2	25.9	25.7	26.4	27.0

Maximum UGR = 27.5

POLAR GRAPH



Maximum Candela = 667.895 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.)