



IES INDOOR REPORT

PHOTOMETRIC FILENAME : CLRT14-FS1-UNV-30W-3500K.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-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	3215
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	109
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	2456	2475	2593
55	2823	2951	3374
65	3214	3343	4252
75	3360	3764	5378
85	3716	4195	6503

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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	693.617	693.617	693.617	693.617	693.617
2.5	705.275	697.503	694.589	691.675	687.789
5.0	709.161	701.389	698.475	695.560	691.675
7.5	712.075	705.275	701.389	699.446	695.560
10.0	714.989	706.246	701.389	699.446	696.532
12.5	714.989	706.246	698.475	696.532	694.589
15.0	714.018	704.303	692.646	693.617	693.617
17.5	711.104	701.389	689.732	693.617	690.703
20.0	706.246	699.446	688.760	692.646	684.874
22.5	699.446	697.503	689.732	690.703	678.074
25.0	694.589	694.589	688.760	686.817	676.131
27.5	690.703	691.675	683.903	684.874	679.046
30.0	688.760	684.874	675.160	682.931	680.017
32.5	684.874	677.103	667.388	676.131	678.074
35.0	680.989	669.331	664.474	670.303	676.131
37.5	677.103	662.531	664.474	669.331	678.074
40.0	668.360	656.702	663.502	674.188	677.103
42.5	657.674	652.816	658.645	680.017	676.131
45.0	646.016	646.016	650.874	682.931	681.960
47.5	634.359	637.273	643.102	682.931	695.560
50.0	623.673	623.673	639.216	685.846	708.189
52.5	613.958	607.158	636.302	689.732	717.904
55.0	602.301	592.586	629.502	687.789	719.847
57.5	586.758	575.100	613.958	680.989	719.847
60.0	567.329	556.643	589.672	668.360	712.075
62.5	540.128	533.328	559.557	649.902	692.646
65.0	505.156	503.213	525.556	625.616	668.360
67.5	465.326	466.297	490.584	588.701	639.216
70.0	420.639	423.554	450.754	549.842	609.101
72.5	371.095	376.924	409.953	509.041	567.329
75.0	323.494	326.408	362.352	463.383	517.784
77.5	272.007	276.864	310.865	410.925	459.497
80.0	223.434	226.349	253.549	346.809	391.496
82.5	172.919	173.890	195.262	274.921	306.008
85.0	120.460	120.460	136.003	192.348	210.805
87.5	65.087	64.116	71.888	96.174	101.031
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	264.82	N.A.	8.20
0-30	583.44	N.A.	18.10
0-40	1005.57	N.A.	31.30
0-60	2090.28	N.A.	65.00
0-80	3053.03	N.A.	95.00
0-90	3214.98	N.A.	100.00
10-90	3148.1	N.A.	97.90
20-40	740.75	N.A.	23.00
20-50	1252.28	N.A.	39.00
40-70	1635.72	N.A.	50.90
60-80	962.75	N.A.	29.90
70-80	411.74	N.A.	12.80
80-90	161.95	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	3214.98	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	66.87
10-20	197.95
20-30	318.62
30-40	422.12
40-50	511.54
50-60	573.17
60-70	551.01
70-80	411.74
80-90	161.95
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	16.0	17.8	16.3	18.1	18.4	UGR Viewed Endwise			
	3H	18.5	20.2	18.9	20.5	20.9	17.2	19.0	17.6	19.4
	4H	19.5	21.1	19.9	21.5	21.9	20.2	21.9	20.6	22.2
	6H	20.4	21.9	20.8	22.2	22.6	21.6	23.2	22.0	23.5
	8H	20.7	22.2	21.2	22.6	22.9	22.8	24.3	23.2	24.7
	12H	21.0	22.4	21.4	22.8	23.2	23.3	24.8	23.8	25.2
							23.7	25.1	24.2	25.5

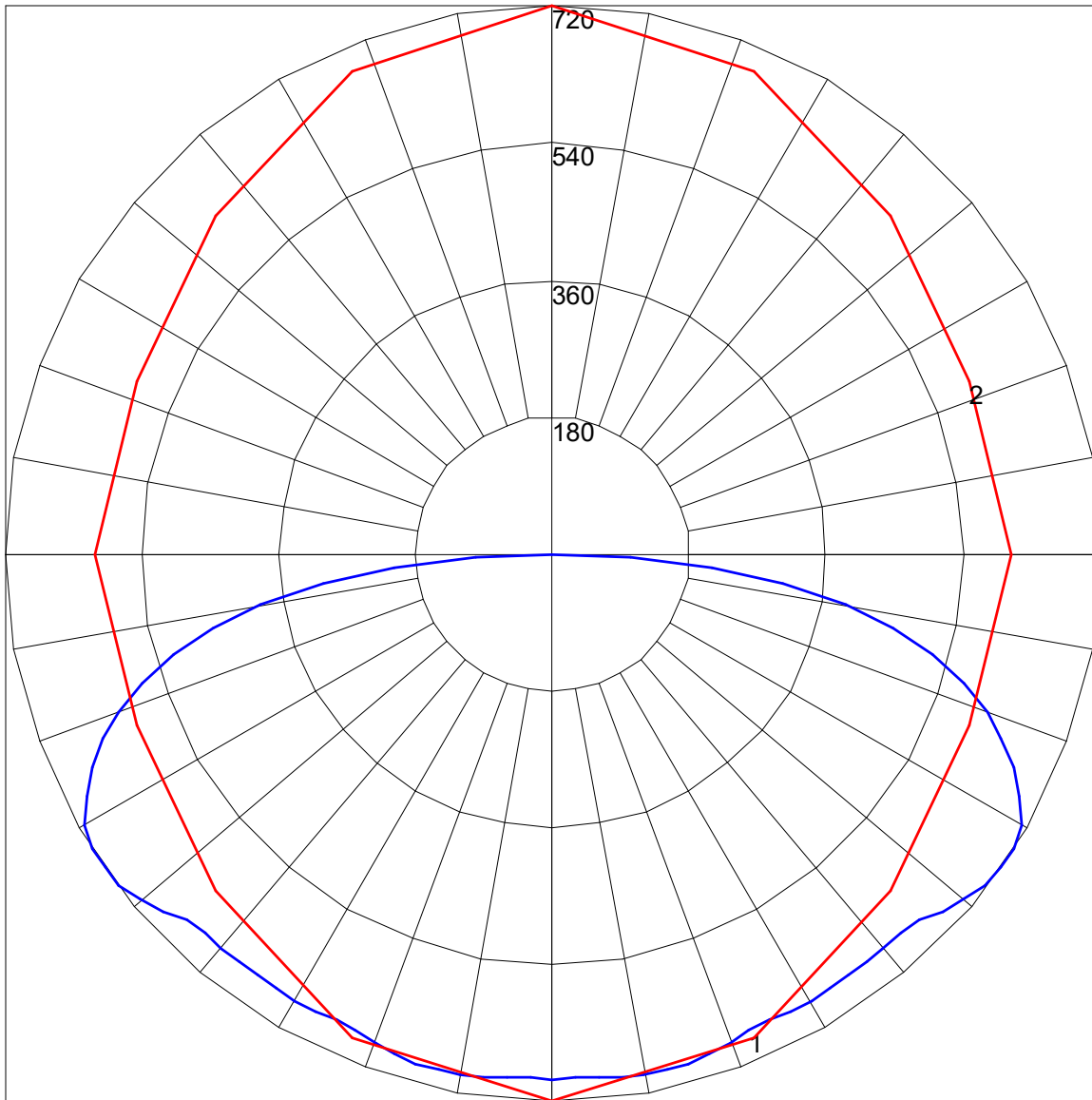
4H	2H	16.9	18.5	17.3	18.9	19.3	17.9	19.5	18.3	19.8
	3H	19.7	21.1	20.1	21.4	21.8	21.1	22.5	21.5	22.9
	4H	20.8	22.1	21.3	22.5	22.9	22.7	23.9	23.1	24.3
	6H	21.8	22.9	22.3	23.4	23.8	24.1	25.2	24.6	25.7
	8H	22.2	23.3	22.7	23.7	24.2	24.7	25.7	25.2	26.2
	12H	22.6	23.5	23.0	24.0	24.5	25.2	26.2	25.7	26.6

8H	4H	21.5	22.5	21.9	22.9	23.4	23.0	24.1	23.5	24.5
	6H	22.6	23.5	23.1	24.0	24.4	24.6	25.5	25.1	26.0
	8H	23.1	23.9	23.6	24.4	24.9	25.4	26.2	25.9	26.7
	12H	23.6	24.3	24.1	24.8	25.3	26.0	26.7	26.5	27.2

12H	4H	21.6	22.6	22.1	23.0	23.5	23.1	24.0	23.6	24.5
	6H	22.8	23.6	23.4	24.1	24.6	24.8	25.6	25.3	26.0
	8H	23.4	24.1	23.9	24.6	25.1	25.5	26.2	26.0	26.7

Maximum UGR = 27.8

POLAR GRAPH



Maximum Candela = 719.847 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.)