



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : CHT-12L-27-GWT.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] LED-11994  
 [TESTLAB] LSI INDUSTRIES, INC.  
 [ISSUE DATE] 7/31/2020  
 [TEST DATE] 07/13/20  
 [MANUFACT] LSI INDUSTRIES, INC.  
 [LUMCAT] CHT-12L-27-GWT  
 [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\_APPLICATION] Outdoor

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1039
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	112
Total Luminaire Watts	9.3
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.10
Spacing Criterion (90-270)	1.12
Spacing Criterion (Diagonal)	1.24
Basic Luminous Shape	Circular
Luminous Length (0-180)	1.50 ft (Diameter)
Luminous Width (90-270)	1.50 ft (Diameter)
Luminous Height	0.00 ft



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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1575	1463	1231
55	817	817	817
65	864	864	864
75	823	823	823
85	698	698	698

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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	642	642	642	642	642
2.5	645	645	643	640	640
5.0	610	606	599	596	595
7.5	575	570	568	569	569
10.0	561	555	558	558	559
12.5	552	548	551	552	552
15.0	539	535	536	537	537
17.5	523	519	519	521	521
20.0	509	508	508	509	509
22.5	498	498	499	499	498
25.0	491	491	491	491	492
27.5	480	481	481	484	486
30.0	473	469	470	471	472
32.5	458	454	453	455	454
35.0	439	435	433	435	435
37.5	417	415	414	415	415
40.0	391	391	392	394	395
42.5	290	309	329	348	353
45.0	183	184	170	153	143
47.5	100	100	101	102	102
50.0	88	88	87	86	86
52.5	80	80	80	80	80
55.0	77	77	77	77	77
57.5	73	74	74	73	73
60.0	70	69	70	69	69
62.5	65	65	65	65	65
65.0	60	60	60	60	60
67.5	54	54	54	54	54
70.0	48	48	48	48	48
72.5	41	41	41	41	41
75.0	35	35	35	35	35
77.5	29	29	29	28	28
80.0	23	22	22	22	22
82.5	16	16	16	16	16
85.0	10	10	10	10	10
87.5	5	5	5	5	5
90.0	0	0	0	0	0

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	206.89	N.A.	19.90
0-30	433.37	N.A.	41.70
0-40	705.06	N.A.	67.90
0-60	931.99	N.A.	89.70
0-80	1027.69	N.A.	98.90
0-90	1039.13	N.A.	100.00
10-90	983.16	N.A.	94.60
20-40	498.17	N.A.	47.90
20-50	656.01	N.A.	63.10
40-70	285.78	N.A.	27.50
60-80	95.69	N.A.	9.20
70-80	36.85	N.A.	3.50
80-90	11.44	N.A.	1.10
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	1039.13	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	55.97
10-20	150.92
20-30	226.49
30-40	271.69
40-50	157.83
50-60	69.10
60-70	58.85
70-80	36.85
80-90	11.44
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

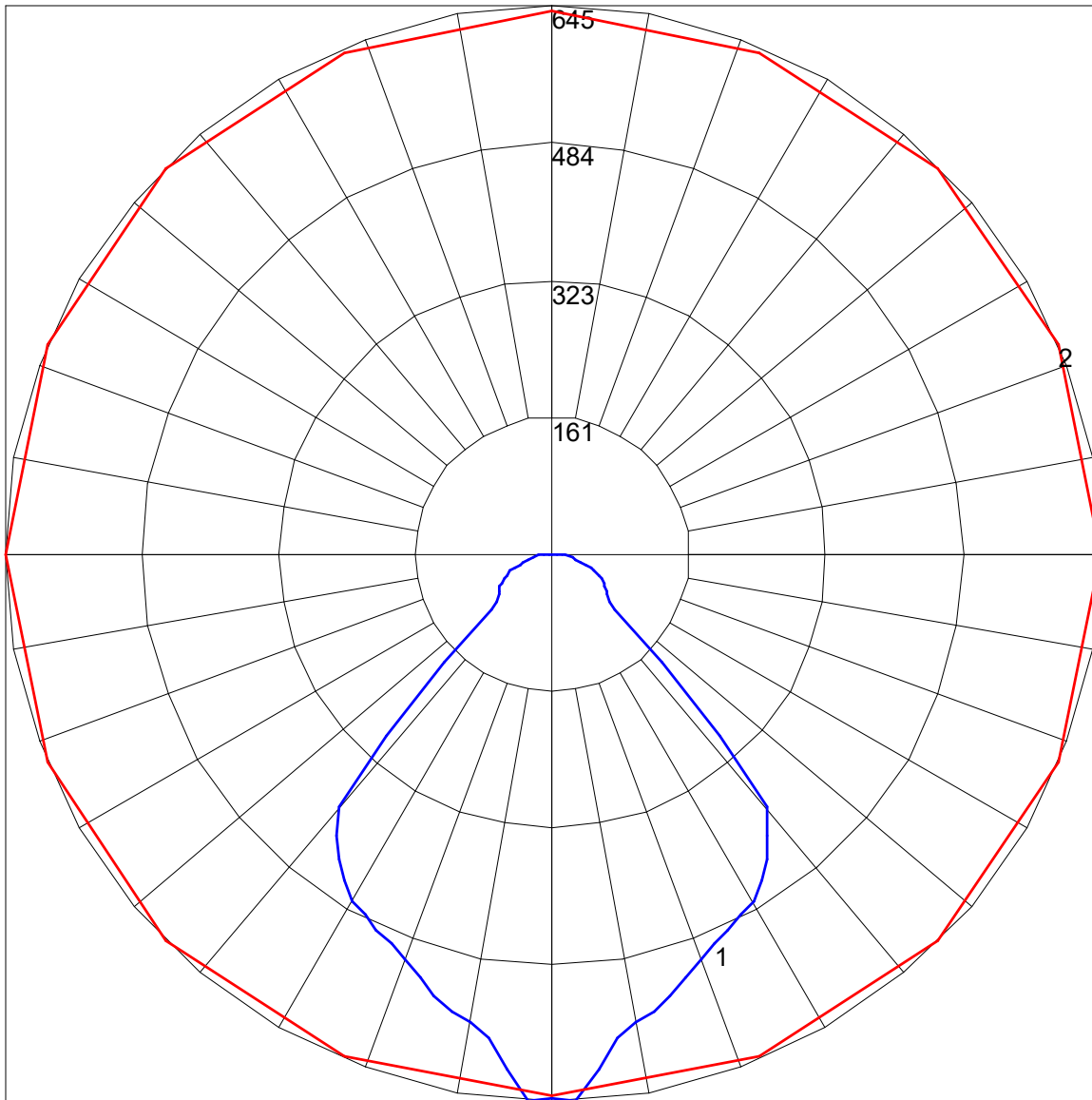
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88
2	103	96	91	86	101	94	89	85	91	87	83	88	84	81	85	82	80	78
3	96	87	80	75	93	85	79	74	83	77	73	80	76	72	78	74	71	69
4	89	79	72	66	87	78	71	66	75	69	65	73	68	64	71	67	63	61
5	83	72	64	59	81	71	64	59	69	63	58	67	62	57	65	61	57	55
6	78	66	58	53	76	65	58	53	63	57	52	62	56	52	60	55	51	50
7	73	61	53	48	71	60	53	48	59	52	47	57	51	47	56	51	47	45
8	68	56	49	43	67	55	48	43	54	48	43	53	47	43	52	47	43	41
9	64	52	45	40	63	51	44	40	50	44	40	49	44	39	48	43	39	38
10	60	48	41	37	59	48	41	36	47	41	36	46	40	36	45	40	36	35

POLAR GRAPH



Maximum Candela = 645 Located At Horizontal Angle = 0, Vertical Angle = 2.5  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)