



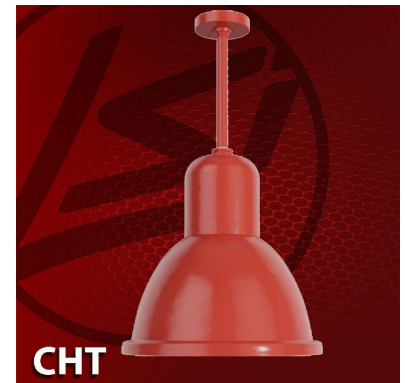
IES INDOOR REPORT
PHOTOMETRIC FILENAME : CHT-12L-40-GWT.IES

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-40-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	1028
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	111
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	1558	1446	1213
55	806	806	806
65	850	850	850
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	635	635	635	635	635
2.5	638	638	636	633	633
5.0	604	600	593	590	589
7.5	569	564	562	563	563
10.0	555	549	552	552	553
12.5	546	542	545	546	546
15.0	533	529	530	531	531
17.5	517	514	514	515	515
20.0	504	503	503	504	504
22.5	493	493	494	494	493
25.0	486	486	486	486	487
27.5	475	476	476	479	481
30.0	468	464	465	466	467
32.5	453	449	448	450	449
35.0	434	430	428	430	430
37.5	413	411	410	411	411
40.0	387	387	388	390	391
42.5	287	306	326	344	349
45.0	181	182	168	151	141
47.5	99	99	100	101	101
50.0	87	87	86	85	85
52.5	79	79	79	79	79
55.0	76	76	76	76	76
57.5	72	73	73	72	72
60.0	69	68	69	68	68
62.5	64	64	64	64	64
65.0	59	59	59	59	59
67.5	53	53	53	53	53
70.0	47	47	47	47	47
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	204.68	N.A.	19.90
0-30	428.86	N.A.	41.70
0-40	697.66	N.A.	67.90
0-60	922.01	N.A.	89.70
0-80	1016.58	N.A.	98.90
0-90	1028.02	N.A.	100.00
10-90	972.65	N.A.	94.60
20-40	492.97	N.A.	48.00
20-50	649.12	N.A.	63.10
40-70	282.21	N.A.	27.50
60-80	94.57	N.A.	9.20
70-80	36.72	N.A.	3.60
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	1028.02	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	55.38
10-20	149.31
20-30	224.17
30-40	268.80
40-50	156.15
50-60	68.20
60-70	57.85
70-80	36.72
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

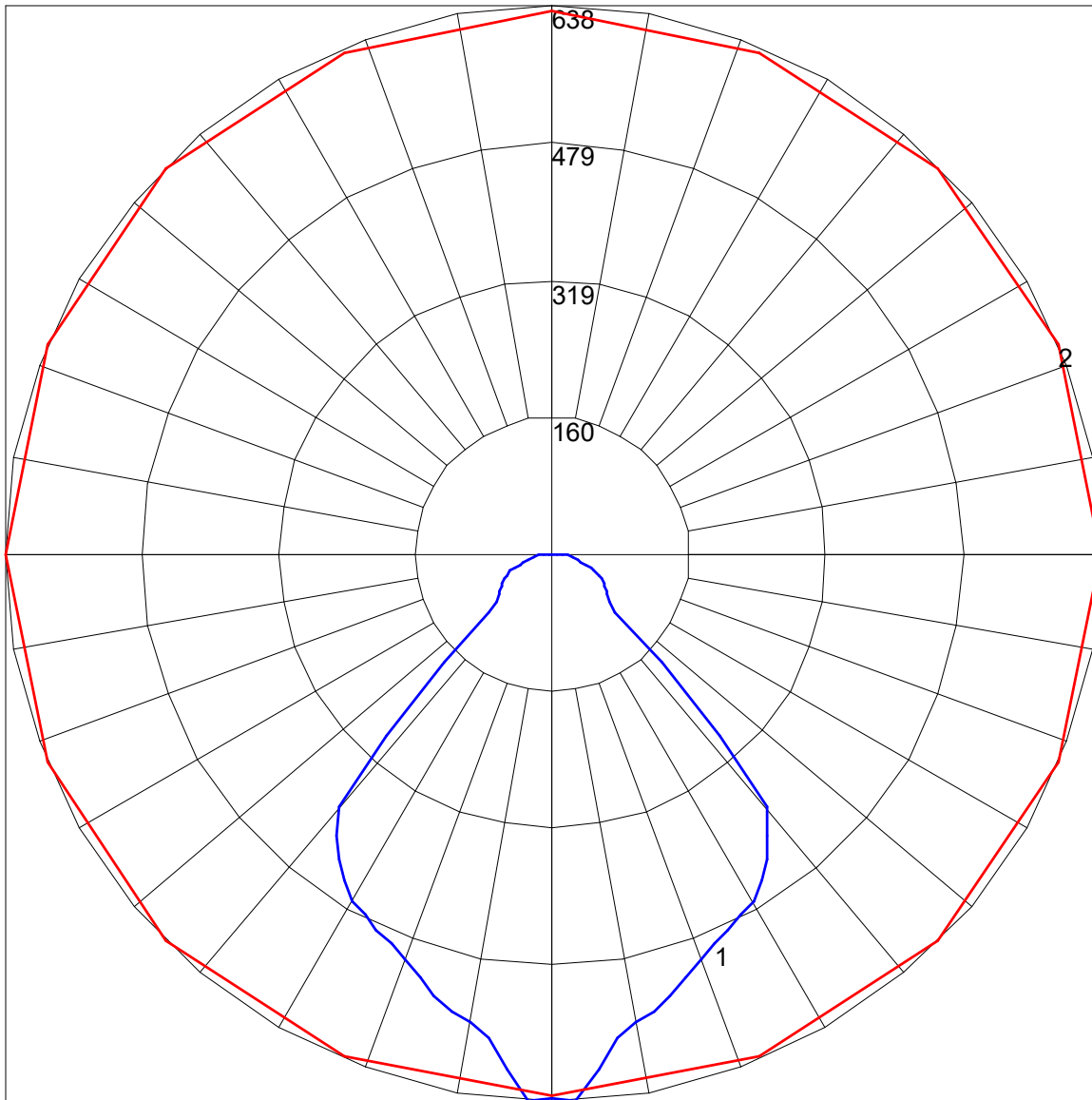
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	100	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 = 638 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.)