



IES INDOOR REPORT
PHOTOMETRIC FILENAME : WNA10-LED-SS-CW.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-13878
[TESTLAB] LSI INDUSTRIES, INC.
[TESTDATE] 02/06/23
[ISSUEDATE] 03/15/23
[MANUFAC] LSI INDUSTRIES, INC.
[LUMCAT] WNA10-LED-SS-CW
[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] 5000

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4390
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	133
Total Luminaire Watts	33
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.34
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.82 ft
Luminous Height	0.00 ft



LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4943	4664	4215
55	4321	3933	3407
65	3468	3243	2909
75	2648	2901	2926
85	2107	4063	5003

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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	1542	1542	1542	1542	1542
2.5	1556	1551	1544	1538	1533
5.0	1557	1552	1544	1538	1534
7.5	1556	1551	1544	1537	1535
10.0	1552	1547	1540	1534	1531
12.5	1545	1540	1534	1529	1526
15.0	1534	1530	1526	1520	1517
17.5	1521	1517	1513	1506	1504
20.0	1505	1502	1497	1489	1485
22.5	1485	1482	1476	1465	1460
25.0	1460	1457	1450	1434	1426
27.5	1430	1428	1418	1397	1386
30.0	1395	1394	1378	1352	1339
32.5	1355	1353	1332	1299	1282
35.0	1311	1307	1280	1239	1218
37.5	1257	1255	1220	1171	1147
40.0	1200	1192	1155	1099	1071
42.5	1134	1128	1082	1021	991
45.0	1066	1057	1006	938	909
47.5	993	983	925	857	828
50.0	916	905	845	778	744
52.5	837	826	766	697	666
55.0	756	746	688	622	596
57.5	678	668	612	555	532
60.0	598	589	542	494	475
62.5	518	514	477	438	421
65.0	447	444	418	388	375
67.5	378	380	363	342	333
70.0	316	321	312	301	296
72.5	260	269	268	265	261
75.0	209	221	229	232	231
77.5	163	178	193	203	204
80.0	123	139	161	176	179
82.5	88	106	132	152	155
85.0	56	76	108	129	133
87.5	29	50	85	108	112
90.0	6	30	67	90	95
92.5	0	22	57	77	80
95.0	0	21	53	70	72
97.5	0	21	51	66	68
100.0	1	21	49	63	65
102.5	1	21	48	60	61
105.0	1	21	46	58	59
107.5	2	21	46	56	58
110.0	2	21	44	54	56
112.5	2	21	43	53	55
115.0	3	21	42	52	53
117.5	3	21	41	50	52
120.0	3	20	40	49	51
122.5	4	20	39	48	49
125.0	4	20	38	46	48
127.5	5	19	36	44	46
130.0	5	19	35	43	44
132.5	5	18	33	41	42

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CANDELA TABULATION - (Cont.)

135.0	6	17	32	39	41
137.5	6	16	30	37	39
140.0	6	15	28	35	37
142.5	6	14	26	33	34
145.0	6	13	24	31	32
147.5	6	13	22	28	30
150.0	6	12	21	26	28
152.5	6	11	19	24	25
155.0	6	10	17	22	23
157.5	6	9	15	19	20
160.0	6	9	14	17	19
162.5	6	8	12	15	16
165.0	6	7	11	14	14
167.5	6	7	10	12	12
170.0	6	6	8	10	11
172.5	6	6	7	9	9
175.0	6	6	7	8	7
177.5	5	6	6	6	6
180.0	6	6	6	6	6

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	578.30	N.A.	13.20
0-30	1243.96	N.A.	28.30
0-40	2037.31	N.A.	46.40
0-60	3417.67	N.A.	77.90
0-80	4073.02	N.A.	92.80
0-90	4186.42	N.A.	95.40
10-90	4039.07	N.A.	92.00
20-40	1459.01	N.A.	33.20
20-50	2226.69	N.A.	50.70
40-70	1794.6	N.A.	40.90
60-80	655.36	N.A.	14.90
70-80	241.11	N.A.	5.50
80-90	113.39	N.A.	2.60
90-110	92.49	N.A.	2.10
90-120	127.87	N.A.	2.90
90-130	156.88	N.A.	3.60
90-150	192.14	N.A.	4.40
90-180	203.29	N.A.	4.60
110-180	110.80	N.A.	2.50
0-180	4389.7	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	147.35
10-20	430.95
20-30	665.66
30-40	793.35
40-50	767.68
50-60	612.67
60-70	414.25
70-80	241.11
80-90	113.39
90-100	51.15
100-110	41.34
110-120	35.38
120-130	29.01
130-140	21.50
140-150	13.77
150-160	7.41
160-170	3.05
170-180	0.69

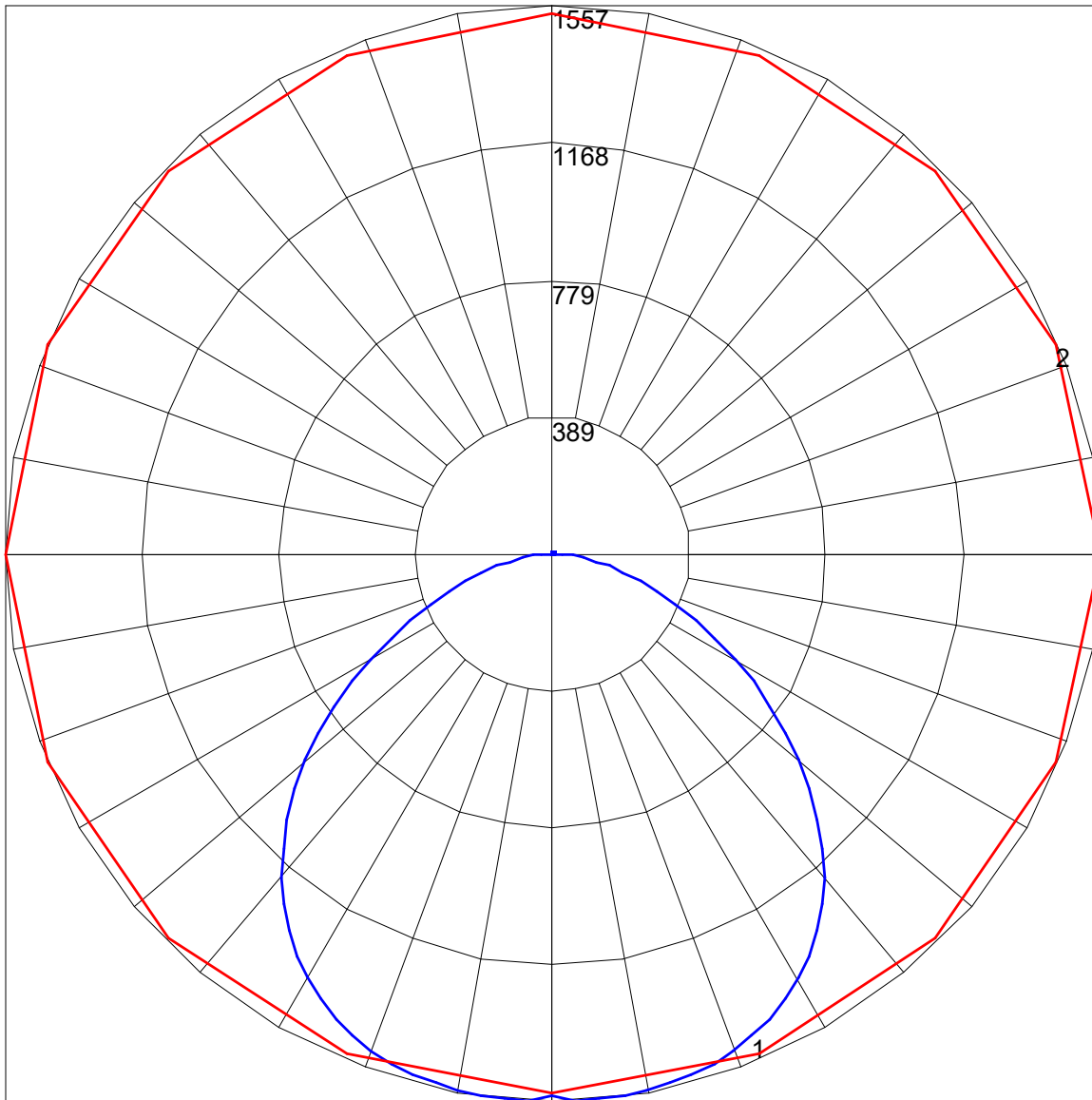
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	118	118	118	118	115	115	115	115	109	109	109	103	103	103	98	98	98	95
1	108	103	99	95	105	100	97	93	95	92	89	91	88	86	86	84	83	80
2	99	91	84	78	95	88	82	77	84	79	75	80	76	72	76	73	70	68
3	90	80	72	66	87	78	71	65	74	68	63	71	66	61	68	64	60	58
4	83	71	63	56	80	70	62	56	66	60	54	64	58	53	61	56	52	50
5	76	64	55	49	74	62	54	48	60	53	47	57	51	46	55	50	45	43
6	71	58	49	43	68	56	48	42	54	47	42	52	46	41	50	44	40	38
7	65	52	44	38	63	51	43	37	49	42	37	48	41	36	46	40	36	34
8	61	48	39	34	59	47	39	34	45	38	33	44	37	33	42	36	32	30
9	57	44	36	30	55	43	35	30	42	35	30	40	34	29	39	33	29	27
10	53	40	33	28	52	40	32	27	39	32	27	37	31	27	36	31	26	25

POLAR GRAPH



Maximum Candela = 1557 Located At Horizontal Angle = 0, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)