



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : WNA10-LED-HO-CW.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] LED-13877  
[TESTLAB] LSI INDUSTRIES, INC.  
[TESTDATE] 02/06/23  
[ISSUE DATE] 03/15/23  
[MANUFAC] LSI INDUSTRIES, INC.  
[LUMCAT] WNA10-LED-HO-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	7010
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	130
Total Luminaire Watts	54
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	7938	7451	6654
55	6928	6248	5407
65	5547	5143	4569
75	4231	4586	4674
85	3386	6470	7937

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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	2467	2467	2467	2467	2467
2.5	2490	2483	2472	2461	2453
5.0	2492	2485	2473	2462	2456
7.5	2489	2482	2472	2460	2454
10.0	2481	2476	2466	2456	2451
12.5	2471	2465	2456	2446	2441
15.0	2455	2450	2443	2431	2427
17.5	2434	2430	2422	2410	2406
20.0	2406	2405	2396	2382	2377
22.5	2374	2371	2363	2345	2337
25.0	2335	2333	2321	2298	2287
27.5	2285	2286	2269	2239	2224
30.0	2230	2231	2208	2167	2148
32.5	2167	2165	2135	2082	2057
35.0	2093	2091	2049	1984	1953
37.5	2012	2007	1954	1876	1831
40.0	1921	1913	1847	1753	1706
42.5	1821	1810	1732	1622	1568
45.0	1712	1699	1607	1488	1435
47.5	1595	1576	1476	1357	1303
50.0	1467	1452	1346	1228	1175
52.5	1340	1317	1218	1104	1057
55.0	1212	1185	1093	989	946
57.5	1075	1061	972	882	844
60.0	949	937	862	782	752
62.5	829	821	757	694	665
65.0	715	711	663	611	589
67.5	608	610	575	538	523
70.0	510	515	495	475	466
72.5	415	430	425	419	415
75.0	334	350	362	369	369
77.5	260	281	305	323	328
80.0	193	220	255	282	288
82.5	138	168	210	243	249
85.0	90	123	172	206	211
87.5	47	82	135	170	176
90.0	10	47	104	139	145
92.5	0	35	90	122	127
95.0	1	34	85	113	117
97.5	1	34	83	107	110
100.0	2	35	80	101	105
102.5	2	34	78	97	100
105.0	2	34	75	93	96
107.5	3	34	74	90	93
110.0	4	34	72	87	90
112.5	4	34	70	85	88
115.0	4	34	69	83	86
117.5	5	33	67	81	84
120.0	5	33	65	79	82
122.5	6	33	63	77	80
125.0	6	32	61	74	77
127.5	7	31	59	71	74
130.0	7	30	57	68	72
132.5	8	29	54	66	69

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CANDELA TABULATION - (Cont.)

135.0	8	28	51	63	66
137.5	8	26	48	59	62
140.0	8	25	45	56	59
142.5	9	23	42	53	56
145.0	9	22	39	49	52
147.5	9	20	36	46	48
150.0	9	19	33	42	44
152.5	9	18	30	38	41
155.0	9	16	27	35	37
157.5	9	15	24	31	33
160.0	9	14	22	28	30
162.5	9	13	19	25	26
165.0	9	12	17	21	23
167.5	9	11	15	18	20
170.0	9	10	13	16	17
172.5	9	9	11	14	14
175.0	9	9	10	12	12
177.5	9	9	9	10	10
180.0	9	9	9	9	9

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	925.57	N.A.	13.20
0-30	1991.31	N.A.	28.40
0-40	3261.29	N.A.	46.50
0-60	5460.67	N.A.	77.90
0-80	6502.06	N.A.	92.80
0-90	6682.36	N.A.	95.30
10-90	6446.52	N.A.	92.00
20-40	2335.72	N.A.	33.30
20-50	3560.91	N.A.	50.80
40-70	2857.58	N.A.	40.80
60-80	1041.39	N.A.	14.90
70-80	383.19	N.A.	5.50
80-90	180.30	N.A.	2.60
90-110	148.75	N.A.	2.10
90-120	205.96	N.A.	2.90
90-130	252.75	N.A.	3.60
90-150	309.46	N.A.	4.40
90-180	327.21	N.A.	4.70
110-180	178.46	N.A.	2.50
0-180	7009.56	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	235.84
10-20	689.73
20-30	1065.74
30-40	1269.98
40-50	1225.19
50-60	974.20
60-70	658.20
70-80	383.19
80-90	180.30
90-100	81.82
100-110	66.92
110-120	57.21
120-130	46.79
130-140	34.54
140-150	22.17
150-160	11.85
160-170	4.84
170-180	1.06

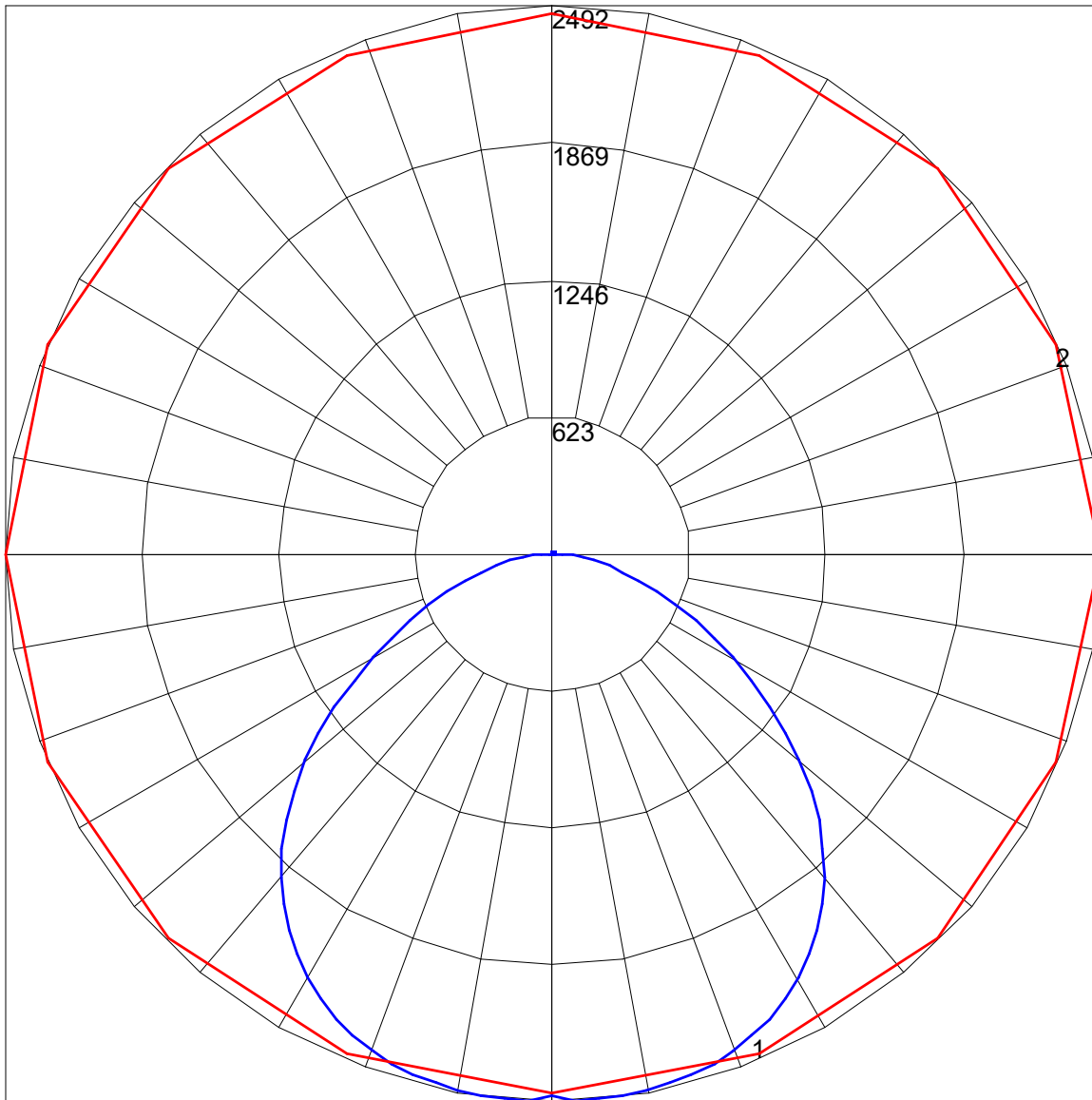
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	62	68	64	60	58
4	83	71	63	56	80	70	62	56	67	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	45	40	38
7	66	52	44	38	64	51	43	38	49	42	37	48	41	36	46	40	36	34
8	61	48	40	34	59	47	39	34	45	38	33	44	37	33	42	36	32	30
9	57	44	36	30	55	43	36	30	42	35	30	40	34	29	39	33	29	27
10	53	41	33	28	52	40	32	27	39	32	27	37	31	27	36	31	26	25

POLAR GRAPH



Maximum Candela = 2492 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.)