



IES INDOOR REPORT
PHOTOMETRIC FILENAME : WNA14-LED-HO-CW.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-9368
[TESTLAB] LSI INDUSTRIES, INC.
[TESTDATE] 11/14/17
[ISSUE DATE] 03/15/23
[MANUFAC] LSI INDUSTRIES, INC.
[LUMCAT] WNA14-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	7637
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	147
Total Luminaire Watts	52
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.32
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)	1.20 ft
Luminous Height	0.00 ft



LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	5564	5491	5212
55	4812	4691	4390
65	3891	3944	3759
75	3237	3636	3887
85	3085	5115	6735

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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	2681	2681	2681	2681	2681
2.5	2682	2697	2692	2682	2678
5.0	2684	2698	2692	2681	2677
7.5	2680	2695	2688	2678	2674
10.0	2672	2685	2679	2669	2665
12.5	2656	2672	2666	2653	2650
15.0	2639	2652	2645	2633	2630
17.5	2613	2627	2618	2605	2600
20.0	2582	2595	2587	2570	2564
22.5	2541	2554	2545	2526	2519
25.0	2493	2507	2496	2475	2466
27.5	2437	2449	2436	2411	2402
30.0	2370	2381	2367	2337	2326
32.5	2295	2304	2288	2253	2239
35.0	2204	2214	2197	2157	2140
37.5	2103	2116	2094	2051	2030
40.0	1995	2006	1983	1935	1910
42.5	1880	1888	1860	1807	1783
45.0	1756	1764	1733	1673	1645
47.5	1626	1635	1603	1537	1505
50.0	1492	1500	1466	1406	1375
52.5	1358	1363	1334	1275	1247
55.0	1232	1231	1201	1150	1124
57.5	1097	1101	1078	1033	1010
60.0	959	975	960	922	903
62.5	843	855	845	820	806
65.0	734	747	744	724	709
67.5	629	647	649	639	630
70.0	536	555	565	565	561
72.5	451	470	487	500	501
75.0	374	391	420	444	449
77.5	298	326	359	393	403
80.0	235	263	303	343	359
82.5	176	205	251	295	311
85.0	120	150	199	248	262
87.5	66	96	148	200	214
90.0	12	41	99	153	166
92.5	0	30	85	132	143
95.0	1	31	84	125	134
97.5	1	31	82	118	125
100.0	1	32	81	112	118
102.5	1	32	78	107	112
105.0	2	33	77	101	108
107.5	2	32	75	98	104
110.0	2	33	74	96	101
112.5	2	32	72	93	98
115.0	3	33	71	92	97
117.5	3	32	69	89	95
120.0	4	32	68	88	93
122.5	4	32	66	86	91
125.0	4	31	64	84	89
127.5	5	30	63	81	86
130.0	5	29	59	78	84
132.5	5	28	56	74	80

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CANDELA TABULATION - (Cont.)

135.0	6	27	53	71	76
137.5	6	25	50	66	72
140.0	6	24	46	61	67
142.5	6	22	43	57	63
145.0	6	20	40	52	57
147.5	7	19	37	48	52
150.0	7	17	33	44	48
152.5	7	16	30	39	43
155.0	7	14	27	35	38
157.5	7	13	24	31	33
160.0	7	12	20	27	30
162.5	7	11	18	23	25
165.0	6	10	16	19	22
167.5	7	9	14	17	18
170.0	6	8	11	14	15
172.5	6	8	10	12	12
175.0	6	7	9	10	9
177.5	6	7	8	8	8
180.0	7	7	7	7	7

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1002.07	N.A.	13.10
0-30	2147.76	N.A.	28.10
0-40	3510.66	N.A.	46.00
0-60	5899.75	N.A.	77.30
0-80	7078.00	N.A.	92.70
0-90	7293.25	N.A.	95.50
10-90	7037.08	N.A.	92.10
20-40	2508.59	N.A.	32.80
20-50	3831.2	N.A.	50.20
40-70	3122.17	N.A.	40.90
60-80	1178.25	N.A.	15.40
70-80	445.17	N.A.	5.80
80-90	215.25	N.A.	2.80
90-110	156.06	N.A.	2.00
90-120	216.73	N.A.	2.80
90-130	267.25	N.A.	3.50
90-150	327.06	N.A.	4.30
90-180	343.92	N.A.	4.50
110-180	187.86	N.A.	2.50
0-180	7637.17	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	256.17
10-20	745.90
20-30	1145.69
30-40	1362.9
40-50	1322.61
50-60	1066.48
60-70	733.08
70-80	445.17
80-90	215.25
90-100	85.48
100-110	70.58
110-120	60.67
120-130	50.52
130-140	36.97
140-150	22.83
150-160	11.60
160-170	4.37
170-180	0.89

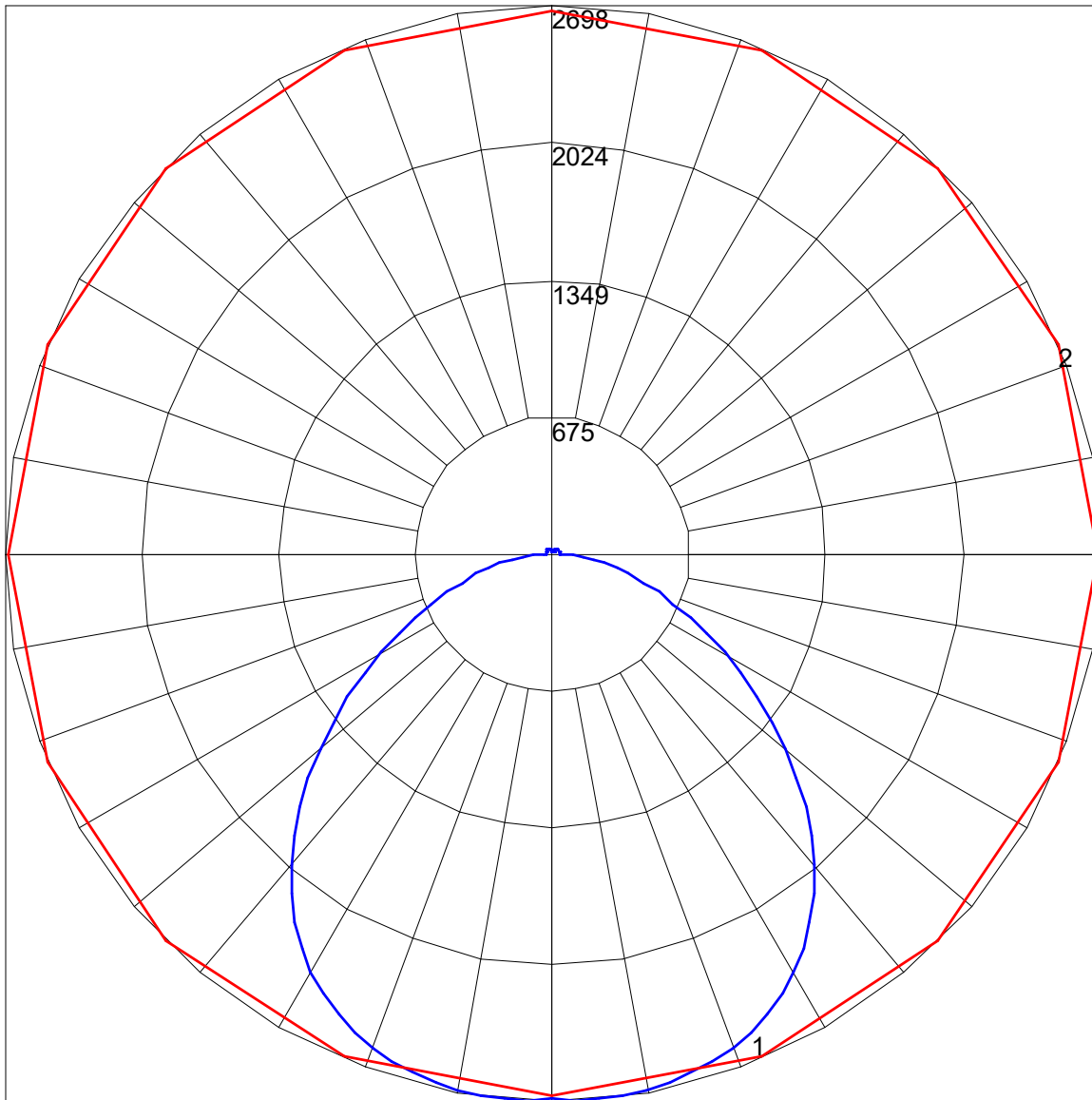
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	96	93	95	92	89	91	88	86	86	84	82	80
2	98	90	84	78	95	88	82	77	84	79	74	80	76	72	76	73	70	67
3	90	80	72	65	87	78	70	64	74	68	63	71	66	61	68	63	60	57
4	83	71	62	56	80	69	61	55	66	59	54	63	57	53	61	56	52	49
5	76	64	55	48	74	62	54	48	60	52	47	57	51	46	55	49	45	43
6	70	57	49	42	68	56	48	42	54	47	41	52	45	41	50	44	40	38
7	65	52	43	37	63	51	43	37	49	42	37	47	41	36	46	40	35	33
8	61	48	39	34	59	47	39	33	45	38	33	43	37	32	42	36	32	30
9	57	44	36	30	55	43	35	30	41	34	30	40	34	29	39	33	29	27
10	53	40	33	27	52	40	32	27	38	32	27	37	31	27	36	30	26	25

POLAR GRAPH



Maximum Candela = 2698 Located At Horizontal Angle = 22.5, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (22.5 - 202.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)