



IES INDOOR REPORT

PHOTOMETRIC FILENAME : WNA14-LED-HO-WW.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-WW

[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] 3000

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	7189
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	138
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)	1.36
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	5237	5168	4905
55	4531	4418	4133
65	3663	3711	3541
75	3047	3428	3662
85	2905	4807	6349

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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	2524	2524	2524	2524	2524
2.5	2525	2539	2534	2525	2521
5.0	2527	2540	2534	2524	2520
7.5	2523	2537	2530	2521	2517
10.0	2515	2528	2522	2512	2508
12.5	2501	2515	2509	2498	2495
15.0	2484	2497	2490	2478	2475
17.5	2460	2473	2465	2452	2447
20.0	2430	2443	2435	2419	2414
22.5	2392	2404	2395	2378	2371
25.0	2347	2360	2350	2330	2321
27.5	2294	2306	2293	2270	2261
30.0	2231	2241	2228	2200	2190
32.5	2160	2169	2154	2120	2108
35.0	2075	2084	2068	2031	2014
37.5	1980	1992	1971	1930	1911
40.0	1878	1888	1867	1821	1798
42.5	1769	1777	1751	1701	1679
45.0	1653	1660	1631	1574	1548
47.5	1531	1539	1509	1447	1417
50.0	1405	1412	1380	1324	1295
52.5	1278	1283	1256	1200	1174
55.0	1160	1159	1131	1082	1058
57.5	1032	1036	1015	972	951
60.0	903	917	904	868	850
62.5	794	805	796	772	758
65.0	691	703	700	681	668
67.5	592	609	611	602	593
70.0	505	523	532	532	528
72.5	424	443	458	471	472
75.0	352	369	396	418	423
77.5	281	307	338	369	379
80.0	221	248	286	323	338
82.5	166	193	236	278	292
85.0	113	141	187	233	247
87.5	62	91	139	188	202
90.0	12	39	94	144	156
92.5	0	28	80	124	135
95.0	1	29	79	118	126
97.5	1	29	77	111	118
100.0	1	30	76	105	111
102.5	1	30	73	100	105
105.0	2	31	72	96	101
107.5	2	30	70	93	97
110.0	2	31	69	91	96
112.5	2	30	68	88	93
115.0	3	31	67	87	92
117.5	3	30	65	84	90
120.0	4	30	64	83	88
122.5	4	30	62	81	86
125.0	4	29	60	79	84
127.5	5	28	59	76	81
130.0	5	27	56	73	79
132.5	5	26	53	69	75

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CANDELA TABULATION - (Cont.)

135.0	6	25	50	67	71
137.5	6	23	47	62	68
140.0	6	22	43	58	63
142.5	6	20	41	54	59
145.0	6	19	38	49	54
147.5	7	18	35	45	49
150.0	7	16	31	41	45
152.5	7	15	28	37	41
155.0	7	14	25	33	36
157.5	7	13	22	29	31
160.0	7	12	19	25	28
162.5	7	11	17	21	23
165.0	6	10	15	18	20
167.5	7	9	14	16	17
170.0	6	8	11	14	14
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	943.30	N.A.	13.10
0-30	2021.8	N.A.	28.10
0-40	3304.71	N.A.	46.00
0-60	5553.57	N.A.	77.20
0-80	6662.92	N.A.	92.70
0-90	6865.58	N.A.	95.50
10-90	6624.44	N.A.	92.10
20-40	2361.41	N.A.	32.80
20-50	3606.37	N.A.	50.20
40-70	2938.99	N.A.	40.90
60-80	1109.35	N.A.	15.40
70-80	419.22	N.A.	5.80
80-90	202.67	N.A.	2.80
90-110	146.77	N.A.	2.00
90-120	204.05	N.A.	2.80
90-130	251.57	N.A.	3.50
90-150	307.84	N.A.	4.30
90-180	323.85	N.A.	4.50
110-180	177.09	N.A.	2.50
0-180	7189.44	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	241.15
10-20	702.15
20-30	1078.5
30-40	1282.91
40-50	1244.96
50-60	1003.9
60-70	690.13
70-80	419.22
80-90	202.67
90-100	80.45
100-110	66.31
110-120	57.29
120-130	47.52
130-140	34.72
140-150	21.54
150-160	10.97
160-170	4.17
170-180	0.88

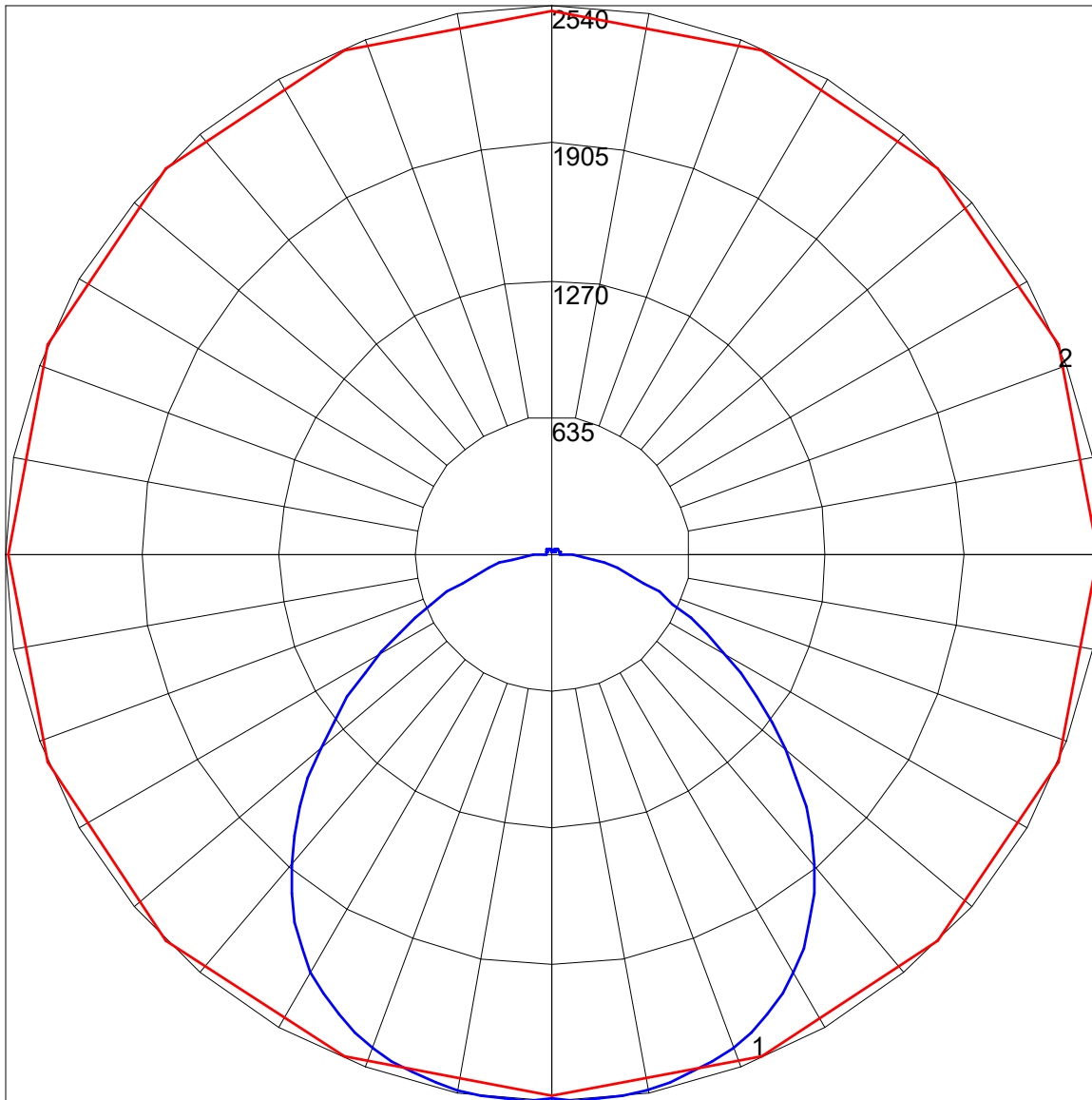
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	96
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 = 2540 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.)