



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : WNA14-LED-HO-NW.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-NW  
[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] 4000

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	7452
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	143
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	5427	5358	5085
55	4695	4578	4285
65	3796	3849	3668
75	3160	3549	3791
85	3008	4987	6581

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**CANDELA TABULATION**

	<u><b>0.0</b></u>	<u><b>22.5</b></u>	<u><b>45.0</b></u>	<u><b>67.5</b></u>	<u><b>90.0</b></u>
<b>0.0</b>	2616	2616	2616	2616	2616
<b>2.5</b>	2617	2632	2627	2617	2613
<b>5.0</b>	2619	2633	2627	2616	2612
<b>7.5</b>	2615	2630	2623	2613	2609
<b>10.0</b>	2607	2620	2614	2604	2600
<b>12.5</b>	2592	2607	2601	2589	2586
<b>15.0</b>	2575	2588	2581	2569	2566
<b>17.5</b>	2550	2563	2555	2542	2537
<b>20.0</b>	2519	2532	2524	2508	2502
<b>22.5</b>	2479	2492	2483	2465	2458
<b>25.0</b>	2433	2446	2436	2415	2406
<b>27.5</b>	2378	2390	2377	2353	2344
<b>30.0</b>	2313	2323	2310	2280	2270
<b>32.5</b>	2239	2248	2233	2198	2185
<b>35.0</b>	2151	2160	2144	2105	2088
<b>37.5</b>	2052	2065	2043	2001	1981
<b>40.0</b>	1947	1957	1935	1888	1864
<b>42.5</b>	1834	1842	1815	1763	1740
<b>45.0</b>	1713	1721	1691	1632	1605
<b>47.5</b>	1587	1595	1564	1500	1469
<b>50.0</b>	1456	1464	1430	1372	1342
<b>52.5</b>	1325	1330	1302	1244	1217
<b>55.0</b>	1202	1201	1172	1122	1097
<b>57.5</b>	1070	1074	1052	1008	986
<b>60.0</b>	936	951	937	900	881
<b>62.5</b>	823	834	825	800	786
<b>65.0</b>	716	729	726	706	692
<b>67.5</b>	614	631	633	624	615
<b>70.0</b>	523	542	551	551	547
<b>72.5</b>	440	459	475	488	489
<b>75.0</b>	365	382	410	433	438
<b>77.5</b>	291	318	350	383	393
<b>80.0</b>	229	257	296	335	350
<b>82.5</b>	172	200	245	288	303
<b>85.0</b>	117	146	194	242	256
<b>87.5</b>	64	94	144	195	209
<b>90.0</b>	12	40	97	149	162
<b>92.5</b>	0	29	83	129	140
<b>95.0</b>	1	30	82	122	131
<b>97.5</b>	1	30	80	115	122
<b>100.0</b>	1	31	79	109	115
<b>102.5</b>	1	31	76	104	109
<b>105.0</b>	2	32	75	99	105
<b>107.5</b>	2	31	73	96	101
<b>110.0</b>	2	32	72	94	99
<b>112.5</b>	2	31	70	91	96
<b>115.0</b>	3	32	69	90	95
<b>117.5</b>	3	31	67	87	93
<b>120.0</b>	4	31	66	86	91
<b>122.5</b>	4	31	64	84	89
<b>125.0</b>	4	30	62	82	87
<b>127.5</b>	5	29	61	79	84
<b>130.0</b>	5	28	58	76	82
<b>132.5</b>	5	27	55	72	78

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**CANDELA TABULATION - (Cont.)**

<b>135.0</b>	6	26	52	69	74
<b>137.5</b>	6	24	49	64	70
<b>140.0</b>	6	23	45	60	65
<b>142.5</b>	6	21	42	56	61
<b>145.0</b>	6	20	39	51	56
<b>147.5</b>	7	19	36	47	51
<b>150.0</b>	7	17	32	43	47
<b>152.5</b>	7	16	29	38	42
<b>155.0</b>	7	14	26	34	37
<b>157.5</b>	7	13	23	30	32
<b>160.0</b>	7	12	20	26	29
<b>162.5</b>	7	11	18	22	24
<b>165.0</b>	6	10	16	19	21
<b>167.5</b>	7	9	14	17	18
<b>170.0</b>	6	8	11	14	15
<b>172.5</b>	6	8	10	12	12
<b>175.0</b>	6	7	9	10	9
<b>177.5</b>	6	7	8	8	8
<b>180.0</b>	7	7	7	7	7

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	977.79	N.A.	13.10
0-30	2095.74	N.A.	28.10
0-40	3425.61	N.A.	46.00
0-60	5756.76	N.A.	77.30
0-80	6906.44	N.A.	92.70
0-90	7116.47	N.A.	95.50
10-90	6866.5	N.A.	92.10
20-40	2447.82	N.A.	32.80
20-50	3738.31	N.A.	50.20
40-70	3046.45	N.A.	40.90
60-80	1149.69	N.A.	15.40
70-80	434.38	N.A.	5.80
80-90	210.02	N.A.	2.80
90-110	152.16	N.A.	2.00
90-120	211.34	N.A.	2.80
90-130	260.54	N.A.	3.50
90-150	318.92	N.A.	4.30
90-180	335.44	N.A.	4.50
110-180	183.28	N.A.	2.50
0-180	7451.91	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	249.96
10-20	727.83
20-30	1117.95
30-40	1329.87
40-50	1290.5
50-60	1040.65
60-70	715.31
70-80	434.38
80-90	210.02
90-100	83.39
100-110	68.78
110-120	59.18
120-130	49.20
130-140	36.02
140-150	22.35
150-160	11.33
160-170	4.31
170-180	0.89

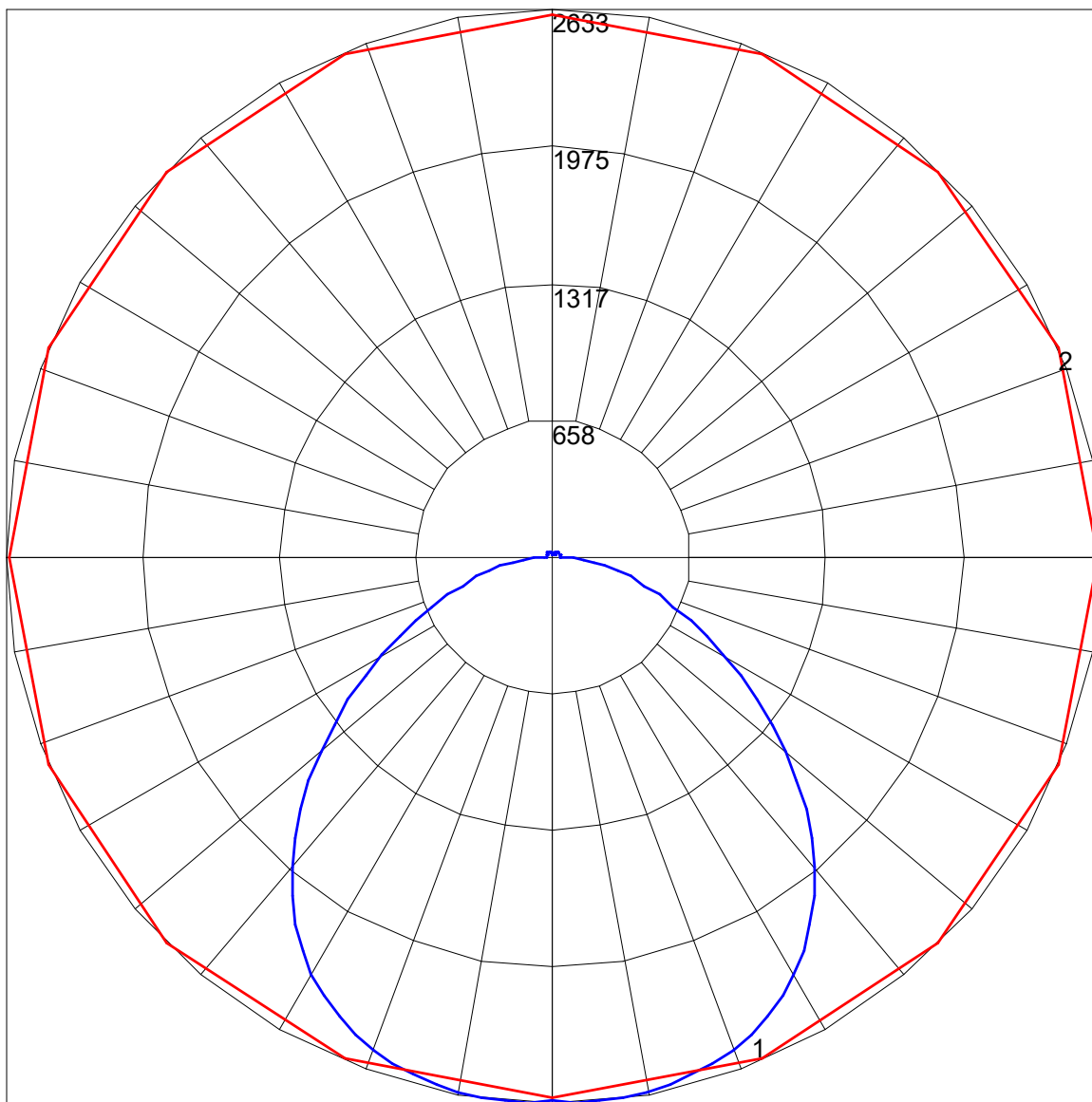
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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 = 2633 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.)