



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : WNA10-LED-HO-NW.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LED-7989

[TESTLAB] LSI INDUSTRIES, INC.

[TESTDATE] 08/03/16

[ISSUEDATE] 03/15/23

[MANUFAC] LSI INDUSTRIES, INC.

[LUMCAT] WNA10-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	6840
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	127
Total Luminaire Watts	54
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.32
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.36
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	7321	7052	6524
55	6436	6133	5562
65	5353	5291	5004
75	4307	4928	5181
85	3762	6997	8915

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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>	2368	2368	2368	2368	2368
<b>2.5</b>	2391	2382	2373	2361	2352
<b>5.0</b>	2393	2383	2374	2361	2354
<b>7.5</b>	2389	2380	2371	2359	2352
<b>10.0</b>	2381	2372	2364	2352	2345
<b>12.5</b>	2369	2360	2352	2340	2334
<b>15.0</b>	2350	2342	2335	2322	2317
<b>17.5</b>	2327	2320	2312	2299	2292
<b>20.0</b>	2297	2292	2282	2266	2259
<b>22.5</b>	2261	2256	2245	2226	2215
<b>25.0</b>	2218	2215	2201	2177	2164
<b>27.5</b>	2167	2166	2148	2115	2101
<b>30.0</b>	2108	2107	2085	2044	2024
<b>32.5</b>	2041	2040	2011	1963	1940
<b>35.0</b>	1967	1964	1927	1874	1846
<b>37.5</b>	1883	1878	1836	1775	1743
<b>40.0</b>	1787	1783	1737	1669	1635
<b>42.5</b>	1689	1679	1633	1559	1522
<b>45.0</b>	1579	1574	1521	1446	1407
<b>47.5</b>	1468	1464	1406	1331	1295
<b>50.0</b>	1355	1351	1292	1219	1179
<b>52.5</b>	1241	1238	1181	1106	1075
<b>55.0</b>	1126	1124	1073	1004	973
<b>57.5</b>	1013	1013	965	906	881
<b>60.0</b>	903	903	863	816	796
<b>62.5</b>	792	795	769	733	717
<b>65.0</b>	690	695	682	657	645
<b>67.5</b>	591	603	598	585	576
<b>70.0</b>	501	518	521	521	516
<b>72.5</b>	417	438	452	460	462
<b>75.0</b>	340	365	389	406	409
<b>77.5</b>	271	299	331	356	363
<b>80.0</b>	208	239	278	312	320
<b>82.5</b>	149	183	231	268	277
<b>85.0</b>	100	133	186	226	237
<b>87.5</b>	52	90	145	187	196
<b>90.0</b>	11	50	107	149	159
<b>92.5</b>	1	37	93	131	140
<b>95.0</b>	1	37	90	124	132
<b>97.5</b>	2	37	88	119	126
<b>100.0</b>	2	37	87	115	121
<b>102.5</b>	2	37	85	111	116
<b>105.0</b>	2	36	82	106	112
<b>107.5</b>	3	36	80	103	108
<b>110.0</b>	3	36	78	100	105
<b>112.5</b>	3	36	76	97	102
<b>115.0</b>	3	35	74	94	99
<b>117.5</b>	3	34	72	91	96
<b>120.0</b>	4	33	70	88	94
<b>122.5</b>	4	33	67	86	91
<b>125.0</b>	4	32	65	83	88
<b>127.5</b>	5	31	63	80	85
<b>130.0</b>	5	30	59	76	81
<b>132.5</b>	5	29	57	73	78

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CANDELA TABULATION - (Cont.)

135.0	5	27	54	69	74
137.5	5	26	50	65	70
140.0	5	24	47	61	66
142.5	6	22	44	58	62
145.0	6	21	41	54	58
147.5	6	19	38	49	53
150.0	6	17	34	45	49
152.5	6	15	31	41	44
155.0	6	14	28	37	39
157.5	6	13	25	33	35
160.0	6	12	21	29	31
162.5	6	10	18	25	27
165.0	6	9	15	20	23
167.5	6	8	13	17	18
170.0	6	8	11	14	15
172.5	6	7	9	12	12
175.0	6	7	8	9	9
177.5	6	6	7	7	7
180.0	6	6	6	6	6

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	885.12	N.A.	12.90
0-30	1895.53	N.A.	27.70
0-40	3091.84	N.A.	45.20
0-60	5206.12	N.A.	76.10
0-80	6287.98	N.A.	91.90
0-90	6485.27	N.A.	94.80
10-90	6259.1	N.A.	91.50
20-40	2206.72	N.A.	32.30
20-50	3368.9	N.A.	49.30
40-70	2786.63	N.A.	40.70
60-80	1081.87	N.A.	15.80
70-80	409.51	N.A.	6.00
80-90	197.29	N.A.	2.90
90-110	163.72	N.A.	2.40
90-120	226.80	N.A.	3.30
90-130	277.47	N.A.	4.10
90-150	337.37	N.A.	4.90
90-180	354.52	N.A.	5.20
110-180	190.79	N.A.	2.80
0-180	6839.79	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	226.17
10-20	658.95
20-30	1010.41
30-40	1196.31
40-50	1162.18
50-60	952.10
60-70	672.36
70-80	409.51
80-90	197.29
90-100	88.86
100-110	74.86
110-120	63.08
120-130	50.67
130-140	36.72
140-150	23.18
150-160	11.92
160-170	4.39
170-180	0.84

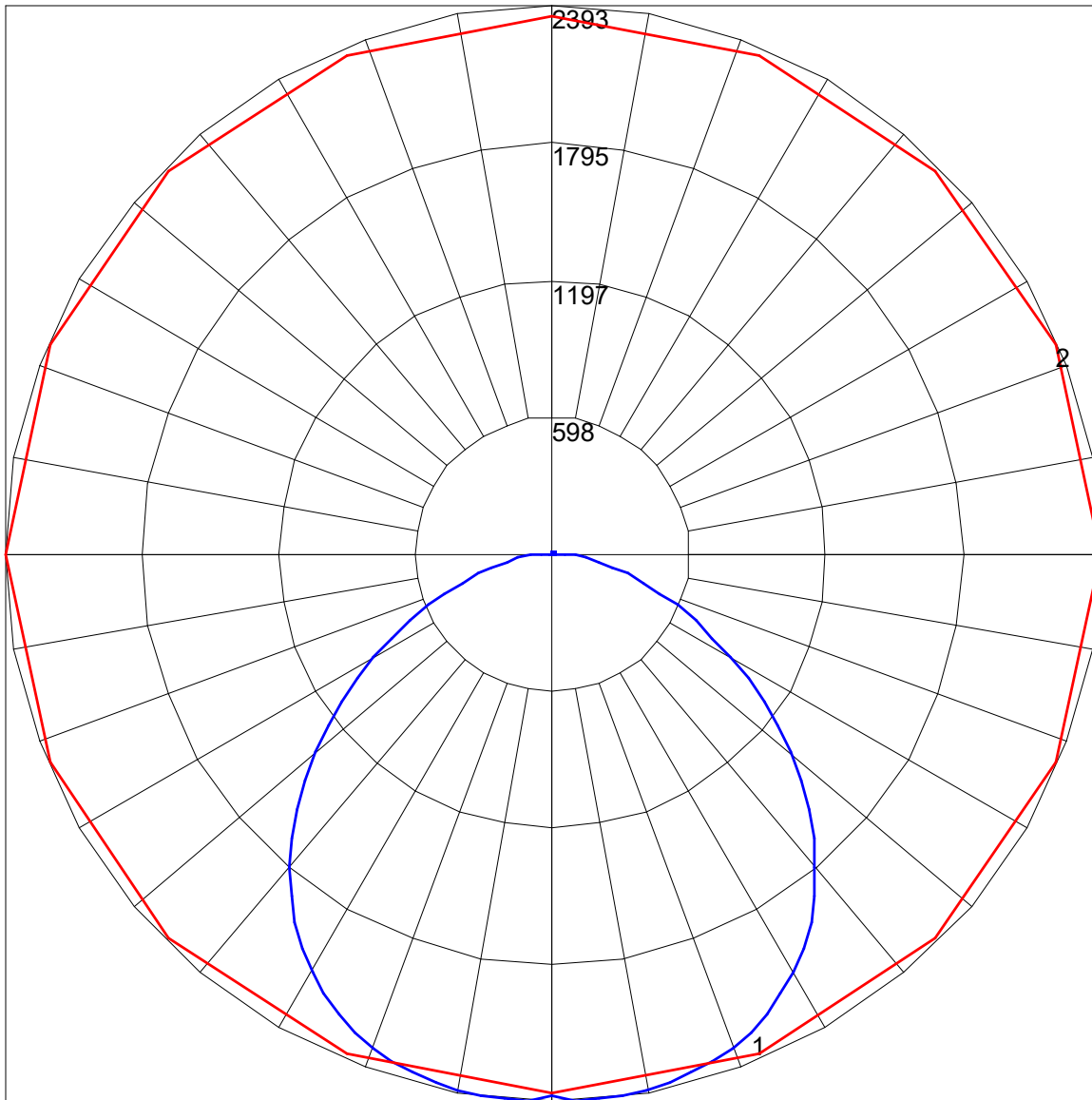
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	114	114	114	114	108	108	108	103	103	103	97	97	97	95
1	107	103	98	95	104	100	96	93	95	92	89	90	87	85	86	84	82	79
2	98	90	83	78	95	88	81	76	83	78	74	79	75	71	75	72	69	66
3	90	79	71	65	87	77	70	64	74	67	62	70	65	60	67	63	59	56
4	82	70	62	55	80	69	61	55	66	59	53	63	57	52	60	55	51	49
5	76	63	54	48	73	62	54	47	59	52	46	57	50	45	54	49	44	42
6	70	57	48	42	68	56	48	42	53	46	41	51	45	40	49	44	39	37
7	65	52	43	37	63	51	43	37	49	41	36	47	40	36	45	39	35	33
8	61	47	39	33	59	46	38	33	45	37	32	43	37	32	41	36	31	29
9	57	43	35	30	55	43	35	30	41	34	29	40	33	29	38	33	28	27
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	36	30	26	24

POLAR GRAPH



Maximum Candela = 2393 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.)