



IES INDOOR REPORT
PHOTOMETRIC FILENAME : WNA10-LED-SS-NW.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-7990
[TESTLAB] LSI INDUSTRIES, INC.
[TESTDATE] 08/04/16
[ISSUE DATE] 03/15/23
[MANUFAC] LSI INDUSTRIES, INC.
[LUMCAT] WNA10-LED-SS-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	4358
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	132
Total Luminaire Watts	33
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	4651	4498	4173
55	4087	3904	3555
65	3406	3359	3181
75	2762	3142	3306
85	2408	4477	5643

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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	1510	1510	1510	1510	1510
2.5	1525	1519	1513	1505	1500
5.0	1525	1519	1513	1505	1500
7.5	1523	1517	1511	1503	1499
10.0	1518	1511	1506	1499	1495
12.5	1509	1504	1499	1492	1488
15.0	1498	1493	1487	1480	1477
17.5	1482	1478	1473	1465	1460
20.0	1464	1460	1454	1444	1440
22.5	1441	1438	1430	1418	1413
25.0	1413	1411	1402	1386	1378
27.5	1381	1379	1367	1348	1338
30.0	1342	1341	1327	1303	1291
32.5	1300	1297	1280	1253	1238
35.0	1251	1249	1228	1195	1178
37.5	1195	1192	1170	1133	1113
40.0	1136	1133	1107	1066	1045
42.5	1073	1068	1039	996	973
45.0	1003	1001	970	923	900
47.5	933	931	897	847	825
50.0	861	859	825	776	755
52.5	788	787	754	708	685
55.0	715	715	683	641	622
57.5	643	642	615	579	563
60.0	573	574	552	522	509
62.5	503	504	491	468	458
65.0	439	442	433	419	410
67.5	376	384	381	374	368
70.0	319	330	334	331	329
72.5	267	280	289	293	292
75.0	218	234	248	258	261
77.5	174	191	210	227	231
80.0	133	151	178	199	203
82.5	96	117	146	170	176
85.0	64	87	119	145	150
87.5	35	58	93	119	125
90.0	11	34	70	95	101
92.5	1	24	58	82	88
95.0	1	23	56	78	83
97.5	2	23	56	75	80
100.0	1	23	54	72	76
102.5	2	23	53	70	73
105.0	2	23	52	67	71
107.5	2	23	51	65	69
110.0	2	23	49	63	66
112.5	2	23	48	61	65
115.0	2	22	47	60	63
117.5	3	22	46	58	62
120.0	3	22	45	57	60
122.5	3	21	43	55	58
125.0	3	20	42	53	56
127.5	3	20	40	51	54
130.0	3	19	38	49	52
132.5	3	18	36	47	50

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CANDELA TABULATION - (Cont.)

135.0	3	17	34	45	48
137.5	4	16	33	42	45
140.0	4	15	31	40	43
142.5	4	14	28	37	40
145.0	4	13	26	34	37
147.5	4	12	24	32	34
150.0	4	11	22	29	31
152.5	4	10	20	26	28
155.0	4	9	17	23	25
157.5	4	9	16	21	23
160.0	4	7	14	18	20
162.5	4	7	12	16	17
165.0	4	6	10	14	14
167.5	4	6	9	11	12
170.0	4	5	7	9	10
172.5	4	5	6	8	8
175.0	4	4	5	6	6
177.5	4	4	5	5	5
180.0	4	4	4	4	4

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	564.05	N.A.	12.90
0-30	1207.69	N.A.	27.70
0-40	1969.65	N.A.	45.20
0-60	3316.66	N.A.	76.10
0-80	4006.19	N.A.	91.90
0-90	4132.37	N.A.	94.80
10-90	3988.22	N.A.	91.50
20-40	1405.6	N.A.	32.30
20-50	2145.96	N.A.	49.20
40-70	1775.38	N.A.	40.70
60-80	689.53	N.A.	15.80
70-80	261.16	N.A.	6.00
80-90	126.18	N.A.	2.90
90-110	103.46	N.A.	2.40
90-120	143.67	N.A.	3.30
90-130	176.13	N.A.	4.00
90-150	214.57	N.A.	4.90
90-180	225.63	N.A.	5.20
110-180	122.16	N.A.	2.80
0-180	4358.00	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	144.15
10-20	419.90
20-30	643.64
30-40	761.96
40-50	740.36
50-60	606.65
60-70	428.37
70-80	261.16
80-90	126.18
90-100	56.19
100-110	47.28
110-120	40.21
120-130	32.46
130-140	23.59
140-150	14.85
150-160	7.62
160-170	2.88
170-180	0.56

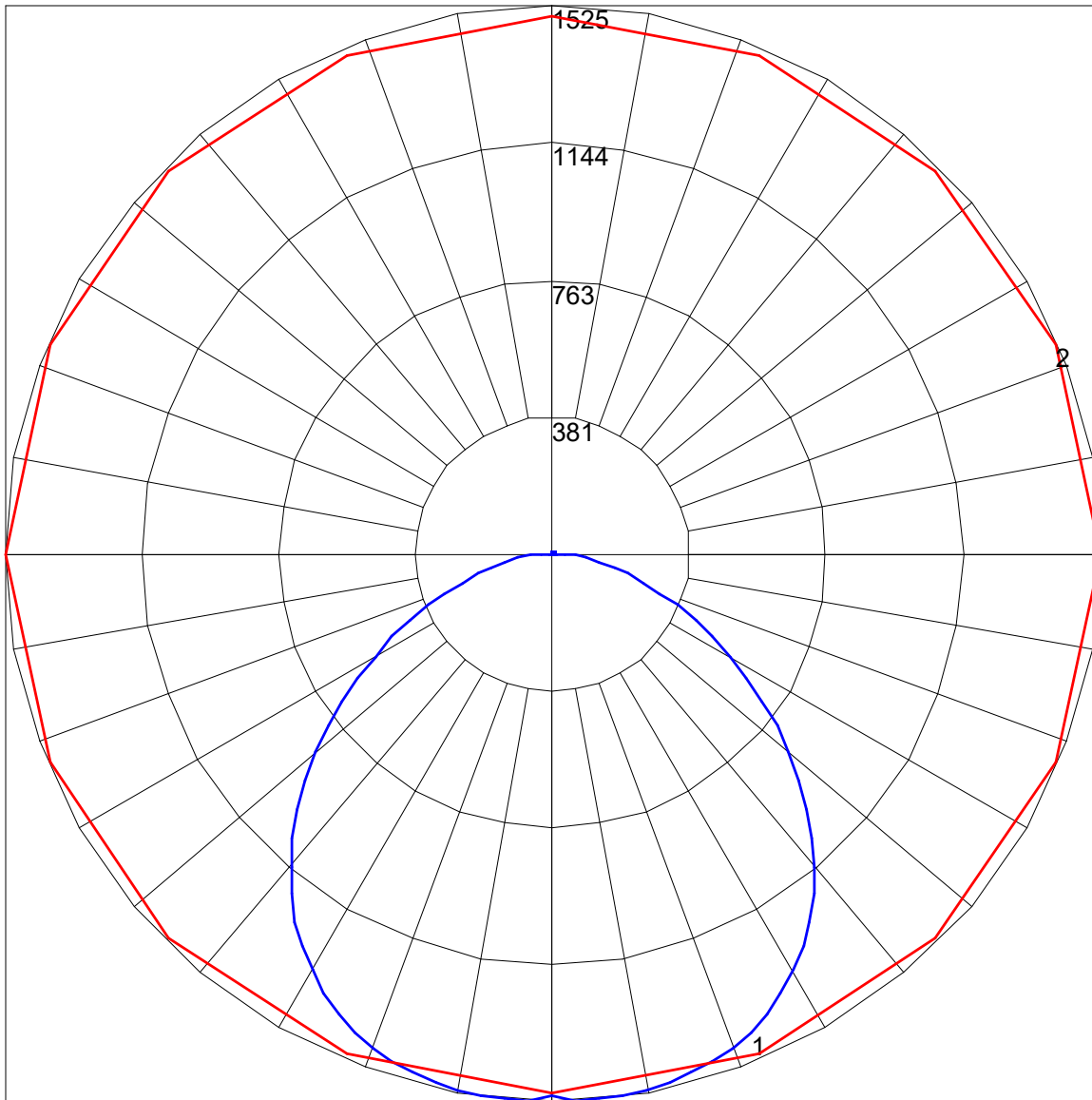
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 1525 Located At Horizontal Angle = 0, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)