



IES INDOOR REPORT

PHOTOMETRIC FILENAME : WNA10-LED-SS-WW.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LED-7992

[TESTLAB] LSI INDUSTRIES, INC.

[TESTDATE] 08/04/16

[ISSUEDATE] 03/15/23

[MANUFAC] LSI INDUSTRIES, INC.

[LUMCAT] WNA10-LED-SS-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	4182
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	127
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	4470	4321	3988
55	3910	3744	3418
65	3251	3227	3033
75	2622	3002	3154
85	2295	4288	5342

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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	1455	1455	1455	1455	1455
2.5	1469	1463	1457	1451	1447
5.0	1470	1464	1457	1451	1448
7.5	1467	1462	1454	1449	1445
10.0	1462	1456	1450	1444	1442
12.5	1454	1449	1442	1436	1434
15.0	1443	1438	1432	1425	1423
17.5	1428	1423	1417	1409	1406
20.0	1410	1406	1399	1390	1386
22.5	1387	1384	1375	1365	1360
25.0	1360	1358	1348	1335	1328
27.5	1327	1325	1315	1298	1290
30.0	1290	1288	1276	1255	1245
32.5	1249	1246	1231	1207	1193
35.0	1202	1198	1179	1150	1135
37.5	1147	1145	1122	1089	1069
40.0	1090	1088	1062	1023	1002
42.5	1029	1027	998	954	933
45.0	964	963	932	884	860
47.5	897	895	862	813	790
50.0	827	826	790	745	723
52.5	757	755	722	679	658
55.0	684	681	655	616	598
57.5	612	613	590	556	541
60.0	544	548	527	500	486
62.5	480	485	469	448	438
65.0	419	426	416	400	391
67.5	361	370	366	356	351
70.0	307	318	319	316	314
72.5	254	265	276	280	281
75.0	207	220	237	248	249
77.5	163	180	200	217	221
80.0	126	145	169	190	194
82.5	92	113	141	163	168
85.0	61	83	114	137	142
87.5	33	55	88	113	119
90.0	6	30	65	91	97
92.5	0	22	55	79	85
95.0	0	22	54	75	80
97.5	1	22	53	72	76
100.0	1	22	52	69	73
102.5	1	22	51	67	70
105.0	1	22	50	65	68
107.5	1	22	48	62	66
110.0	1	22	47	60	64
112.5	2	22	46	59	62
115.0	2	21	45	57	61
117.5	2	21	44	56	59
120.0	2	21	43	54	58
122.5	2	20	41	52	56
125.0	2	20	40	51	54
127.5	2	19	38	49	52
130.0	3	19	37	47	50
132.5	3	18	35	45	48

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CANDELA TABULATION - (Cont.)

135.0	3	17	34	43	46
137.5	3	16	32	41	44
140.0	3	15	29	38	41
142.5	3	14	27	36	38
145.0	3	13	25	33	36
147.5	3	12	23	31	33
150.0	4	11	21	28	30
152.5	4	10	19	26	27
155.0	3	9	17	23	24
157.5	4	8	15	20	22
160.0	4	8	14	18	19
162.5	4	7	12	16	17
165.0	4	6	10	13	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	4	5	5
180.0	4	4	4	4	4

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	543.19	N.A.	13.00
0-30	1162.55	N.A.	27.80
0-40	1894.77	N.A.	45.30
0-60	3186.63	N.A.	76.20
0-80	3845.78	N.A.	92.00
0-90	3966.02	N.A.	94.80
10-90	3827.12	N.A.	91.50
20-40	1351.58	N.A.	32.30
20-50	2062.26	N.A.	49.30
40-70	1702.05	N.A.	40.70
60-80	659.15	N.A.	15.80
70-80	248.97	N.A.	6.00
80-90	120.23	N.A.	2.90
90-110	98.65	N.A.	2.40
90-120	137.12	N.A.	3.30
90-130	168.16	N.A.	4.00
90-150	205.35	N.A.	4.90
90-180	216.19	N.A.	5.20
110-180	117.53	N.A.	2.80
0-180	4182.21	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	138.90
10-20	404.29
20-30	619.36
30-40	732.21
40-50	710.68
50-60	581.18
60-70	410.18
70-80	248.97
80-90	120.23
90-100	53.46
100-110	45.19
110-120	38.47
120-130	31.03
130-140	22.87
140-150	14.32
150-160	7.42
160-170	2.87
170-180	0.55

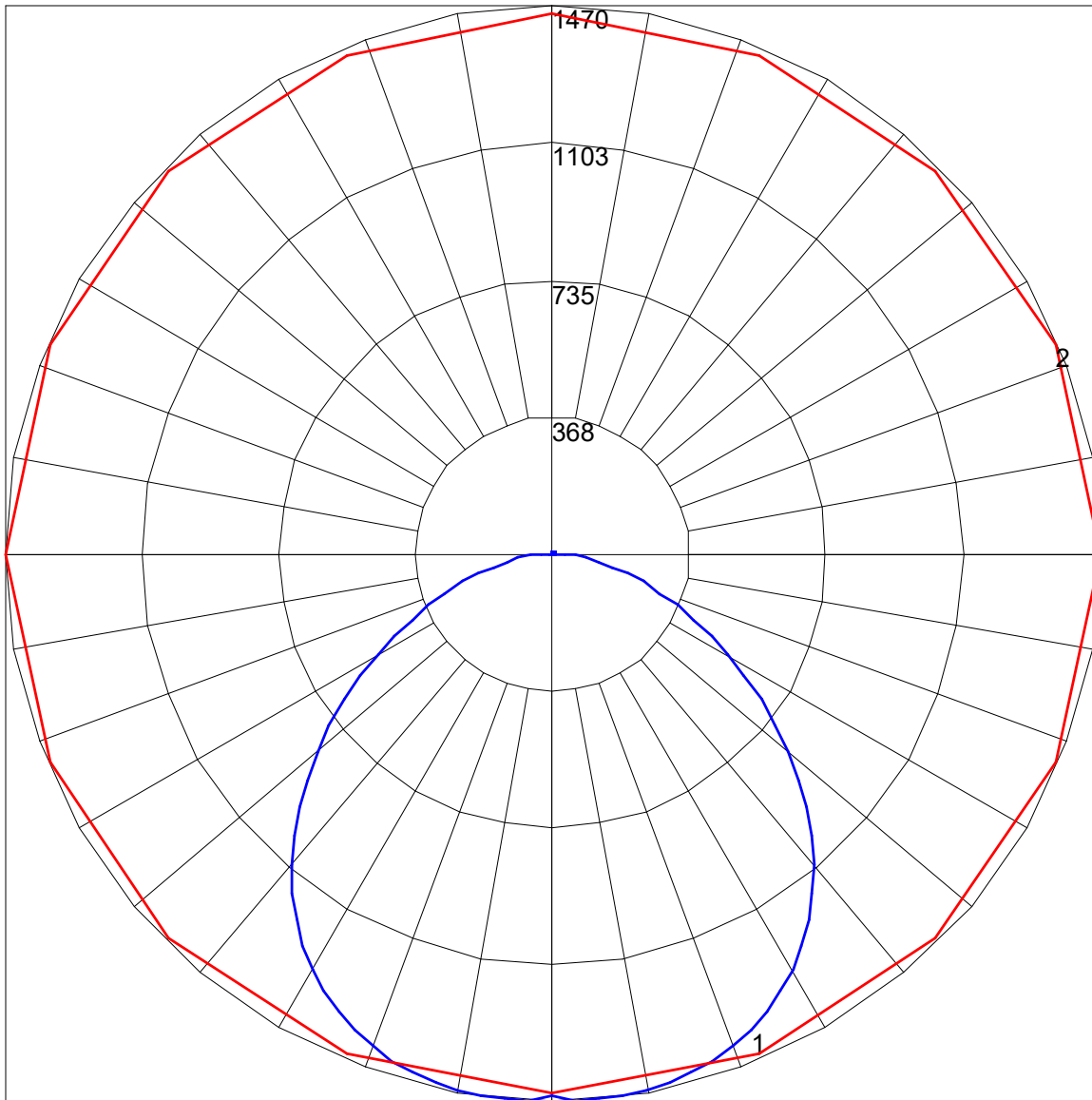
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	108	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	67
3	90	79	71	65	87	77	70	64	74	67	62	70	65	61	67	63	59	57
4	82	71	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	45	42
6	70	57	48	42	68	56	48	42	54	46	41	51	45	40	49	44	39	37
7	65	52	43	37	63	51	43	37	49	42	36	47	40	36	45	39	35	33
8	61	47	39	33	59	46	38	33	45	38	32	43	37	32	42	36	31	30
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 = 1470 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.)