



IES INDOOR REPORT
PHOTOMETRIC FILENAME : WNA14-LED-VHO-NW.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-13901
[TESTLAB] LSI INDUSTRIES, INC.
[TESTDATE] 02/15/23
[ISSUEDATE] 03/15/23
[MANUFAC] LSI INDUSTRIES, INC.
[LUMCAT] WNA14-LED-VHO-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	11725
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	143
Total Luminaire Watts	82
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.32
Spacing Criterion (90-270)	1.30
Spacing Criterion (Diagonal)	1.40
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	8688	8520	8111
55	7656	7386	6867
65	6229	6197	5906
75	4934	5497	5912
85	4164	7480	10411

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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	4017	4017	4017	4017	4017
2.5	4011	4039	4032	4018	4011
5.0	4014	4042	4033	4018	4011
7.5	4009	4037	4027	4013	4006
10.0	3998	4025	4015	4000	3994
12.5	3981	4006	3995	3981	3976
15.0	3955	3980	3969	3953	3947
17.5	3922	3946	3934	3915	3909
20.0	3878	3903	3889	3865	3856
22.5	3826	3850	3834	3805	3794
25.0	3762	3785	3768	3731	3719
27.5	3687	3708	3686	3644	3629
30.0	3593	3619	3592	3541	3523
32.5	3490	3512	3479	3423	3400
35.0	3371	3388	3353	3288	3261
37.5	3238	3245	3211	3137	3106
40.0	3083	3094	3049	2967	2936
42.5	2919	2928	2873	2788	2753
45.0	2742	2749	2689	2598	2560
47.5	2554	2559	2496	2397	2353
50.0	2355	2360	2297	2198	2142
52.5	2152	2156	2095	1990	1946
55.0	1960	1952	1891	1797	1758
57.5	1749	1755	1692	1613	1578
60.0	1545	1562	1507	1440	1410
62.5	1366	1358	1330	1280	1256
65.0	1175	1186	1169	1128	1114
67.5	1001	1024	1014	995	987
70.0	849	871	875	875	870
72.5	699	731	748	763	768
75.0	570	603	635	668	683
77.5	451	484	533	587	608
80.0	341	382	443	513	538
82.5	248	286	363	444	471
85.0	162	206	291	377	405
87.5	86	132	222	310	338
90.0	20	68	162	246	269
92.5	3	47	135	210	229
95.0	3	47	133	197	211
97.5	3	48	130	186	198
100.0	3	48	127	175	185
102.5	3	48	122	165	174
105.0	4	49	118	157	166
107.5	4	48	115	150	157
110.0	5	49	112	145	152
112.5	5	48	109	140	147
115.0	6	48	107	137	144
117.5	6	48	104	134	140
120.0	8	48	102	131	138
122.5	8	47	99	127	134
125.0	9	46	96	124	131
127.5	10	45	92	120	127
130.0	10	43	88	115	123
132.5	11	42	84	110	117

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CANDELA TABULATION - (Cont.)

135.0	12	40	79	104	112
137.5	12	38	75	98	106
140.0	13	36	69	91	99
142.5	13	33	64	84	91
145.0	13	31	58	78	84
147.5	13	29	54	71	77
150.0	13	27	49	64	69
152.5	13	24	44	57	62
155.0	13	22	39	51	55
157.5	14	21	35	46	49
160.0	13	19	31	39	43
162.5	13	18	28	35	38
165.0	13	17	24	30	32
167.5	13	16	21	26	27
170.0	13	15	19	22	23
172.5	12	14	17	19	19
175.0	12	13	15	16	16
177.5	12	13	13	13	13
180.0	12	12	12	12	12

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1503.45	N.A.	12.80
0-30	3233.26	N.A.	27.60
0-40	5314.69	N.A.	45.30
0-60	9048.78	N.A.	77.20
0-80	10880.32	N.A.	92.80
0-90	11199.42	N.A.	95.50
10-90	10815.68	N.A.	92.20
20-40	3811.24	N.A.	32.50
20-50	5866.62	N.A.	50.00
40-70	4888.2	N.A.	41.70
60-80	1831.55	N.A.	15.60
70-80	677.44	N.A.	5.80
80-90	319.10	N.A.	2.70
90-110	244.17	N.A.	2.10
90-120	335.30	N.A.	2.90
90-130	410.46	N.A.	3.50
90-150	499.80	N.A.	4.30
90-180	525.48	N.A.	4.50
110-180	281.31	N.A.	2.40
0-180	11724.9	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	383.75
10-20	1119.71
20-30	1729.81
30-40	2081.43
40-50	2055.38
50-60	1678.71
60-70	1154.11
70-80	677.44
80-90	319.10
90-100	135.66
100-110	108.51
110-120	91.13
120-130	75.15
130-140	55.21
140-150	34.14
150-160	17.31
160-170	6.87
170-180	1.51

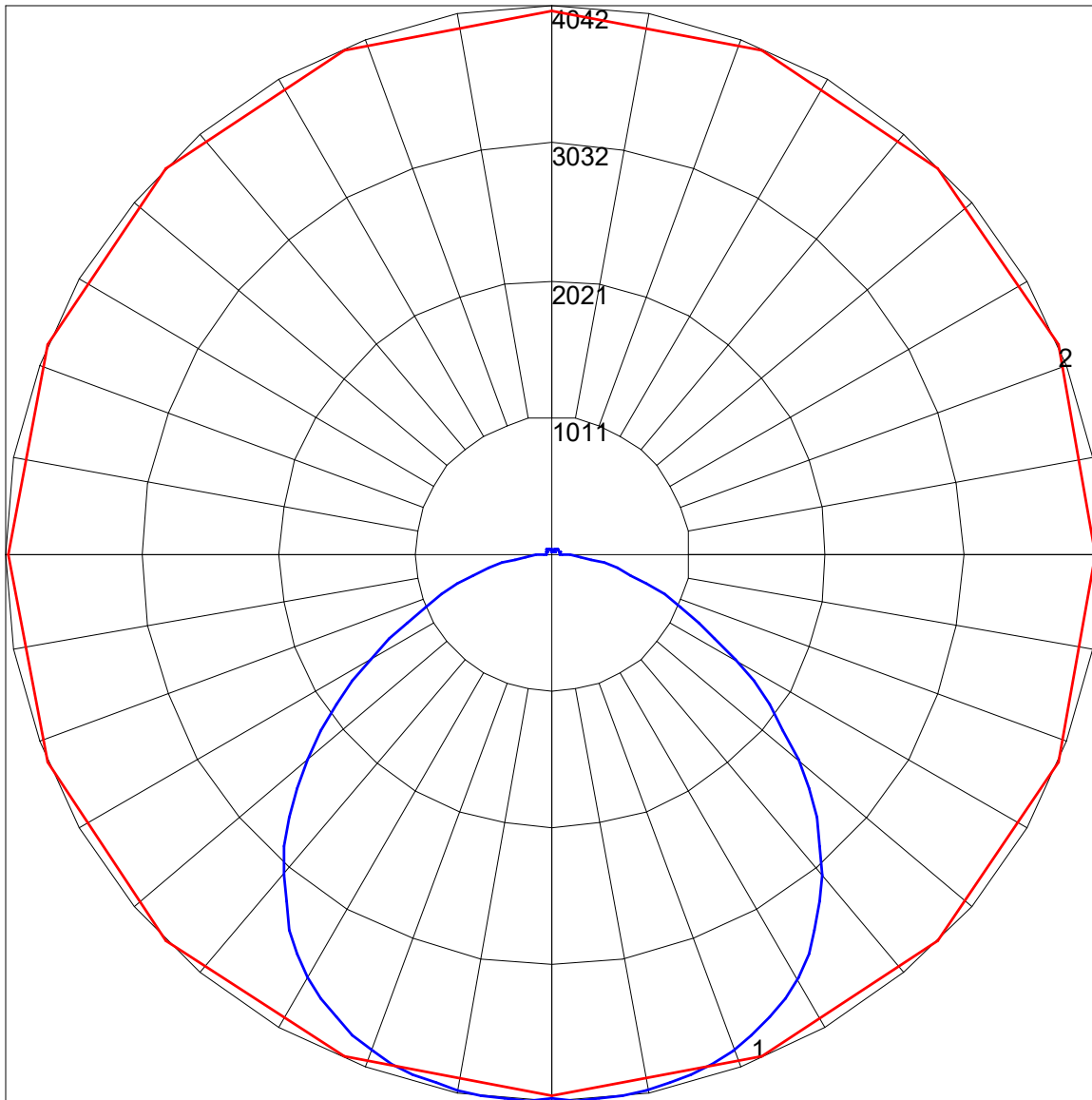
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	83	78	95	88	82	77	84	79	74	80	75	72	76	73	70	67
3	90	80	72	65	87	78	70	64	74	68	63	71	65	61	68	63	59	57
4	82	71	62	56	80	69	61	55	66	59	54	63	57	52	61	55	51	49
5	76	63	54	48	73	62	54	48	59	52	47	57	51	46	55	49	45	43
6	70	57	48	42	68	56	48	42	54	46	41	52	45	40	50	44	40	37
7	65	52	43	37	63	51	43	37	49	42	36	47	41	36	45	40	35	33
8	61	47	39	33	59	46	38	33	45	38	32	43	37	32	42	36	32	30
9	57	43	35	30	55	43	35	30	41	34	29	40	33	29	38	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	36	30	26	24

POLAR GRAPH



Maximum Candela = 4042 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.)