



IES INDOOR REPORT
PHOTOMETRIC FILENAME : WNA14-LED-VHO-WW.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-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	11311
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	138
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	8380	8219	7826
55	7386	7125	6625
65	6012	5980	5699
75	4761	5306	5704
85	4010	7223	10051

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

CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	3876	3876	3876	3876	3876
2.5	3870	3897	3890	3876	3870
5.0	3873	3900	3891	3876	3870
7.5	3868	3895	3885	3872	3865
10.0	3857	3883	3874	3859	3853
12.5	3841	3865	3854	3841	3836
15.0	3816	3840	3829	3814	3808
17.5	3784	3807	3795	3777	3771
20.0	3741	3766	3752	3729	3720
22.5	3691	3714	3699	3671	3660
25.0	3629	3652	3635	3600	3588
27.5	3557	3577	3556	3516	3501
30.0	3466	3492	3465	3416	3399
32.5	3367	3388	3356	3302	3280
35.0	3252	3269	3235	3172	3146
37.5	3124	3131	3098	3027	2997
40.0	2974	2985	2942	2862	2833
42.5	2816	2825	2772	2690	2656
45.0	2645	2652	2594	2506	2470
47.5	2464	2469	2408	2313	2270
50.0	2272	2277	2216	2121	2067
52.5	2076	2080	2021	1920	1877
55.0	1891	1883	1824	1734	1696
57.5	1687	1693	1632	1556	1522
60.0	1491	1507	1454	1389	1360
62.5	1318	1310	1283	1235	1212
65.0	1134	1144	1128	1088	1075
67.5	966	988	978	960	952
70.0	819	840	844	844	839
72.5	674	705	722	736	741
75.0	550	582	613	644	659
77.5	435	467	514	566	587
80.0	329	369	427	495	519
82.5	239	276	350	428	454
85.0	156	199	281	364	391
87.5	83	127	214	299	326
90.0	19	66	156	237	260
92.5	3	45	130	203	221
95.0	3	45	128	190	204
97.5	3	46	125	179	191
100.0	3	46	123	169	178
102.5	3	46	118	159	168
105.0	4	47	114	151	160
107.5	4	46	111	145	151
110.0	5	47	108	140	147
112.5	5	46	105	135	142
115.0	6	46	103	132	139
117.5	6	46	100	129	135
120.0	8	46	98	126	133
122.5	8	45	96	123	129
125.0	9	44	93	120	126
127.5	10	43	89	116	123
130.0	10	41	85	111	119
132.5	11	41	81	106	113

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

CANDELA TABULATION - (Cont.)

135.0	12	39	76	100	108
137.5	12	37	72	95	102
140.0	13	35	67	88	96
142.5	13	32	62	81	88
145.0	13	30	56	75	81
147.5	13	28	52	68	74
150.0	13	26	47	62	67
152.5	13	23	42	55	60
155.0	13	21	38	49	53
157.5	14	20	34	44	47
160.0	13	18	30	38	41
162.5	13	17	27	34	37
165.0	13	16	23	29	31
167.5	13	15	20	25	26
170.0	13	14	18	21	22
172.5	12	14	16	18	18
175.0	12	13	14	15	15
177.5	12	13	13	13	13
180.0	12	12	12	12	12

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

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1450.5	N.A.	12.80
0-30	3119.36	N.A.	27.60
0-40	5127.46	N.A.	45.30
0-60	8729.92	N.A.	77.20
0-80	10496.86	N.A.	92.80
0-90	10804.67	N.A.	95.50
10-90	10434.43	N.A.	92.20
20-40	3676.96	N.A.	32.50
20-50	5659.94	N.A.	50.00
40-70	4715.87	N.A.	41.70
60-80	1766.94	N.A.	15.60
70-80	653.53	N.A.	5.80
80-90	307.81	N.A.	2.70
90-110	235.40	N.A.	2.10
90-120	323.19	N.A.	2.90
90-130	395.74	N.A.	3.50
90-150	482.08	N.A.	4.30
90-180	506.83	N.A.	4.50
110-180	271.43	N.A.	2.40
0-180	11311.5	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	370.24
10-20	1080.27
20-30	1668.86
30-40	2008.1
40-50	1982.98
50-60	1619.48
60-70	1113.41
70-80	653.53
80-90	307.81
90-100	130.76
100-110	104.64
110-120	87.78
120-130	72.55
130-140	53.35
140-150	32.99
150-160	16.69
160-170	6.61
170-180	1.45

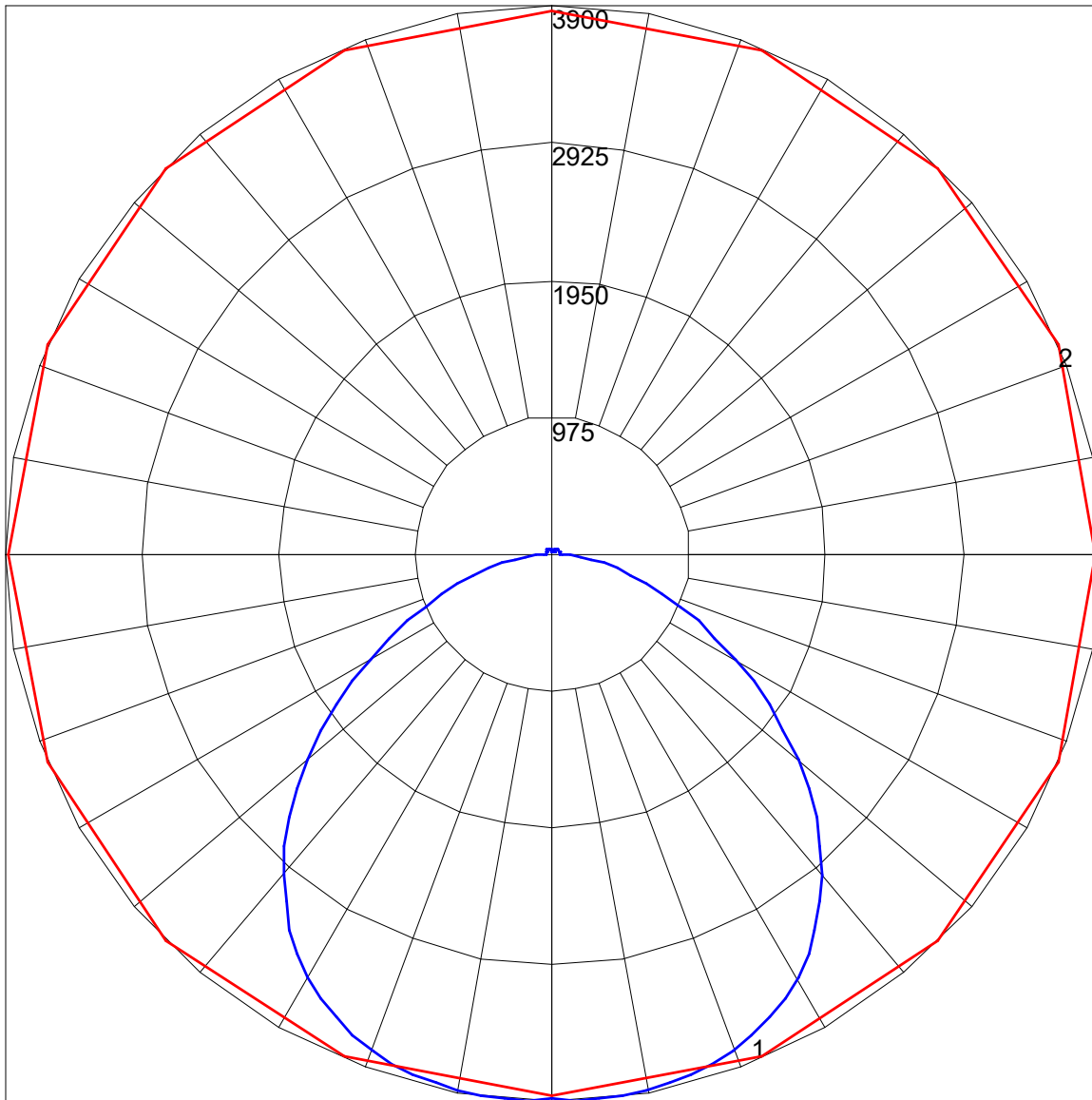
IES INDOOR REPORT
PHOTOMETRIC FILENAME : WNA14-LED-VHO-WW.IES

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 = 3900 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.)