



IES INDOOR REPORT
PHOTOMETRIC FILENAME : WNA14-LED-VHO-CW.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-CW
[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] 5000

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	12016
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	147
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	8903	8732	8314
55	7847	7570	7039
65	6383	6351	6054
75	5055	5635	6059
85	4267	7660	10668

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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	4117	4117	4117	4117	4117
2.5	4111	4139	4132	4118	4111
5.0	4114	4142	4133	4118	4111
7.5	4108	4137	4127	4113	4105
10.0	4097	4125	4115	4099	4093
12.5	4080	4105	4094	4080	4075
15.0	4053	4079	4068	4051	4045
17.5	4019	4044	4032	4012	4006
20.0	3974	4000	3986	3961	3952
22.5	3921	3946	3929	3899	3888
25.0	3855	3879	3862	3824	3811
27.5	3779	3800	3777	3734	3719
30.0	3682	3709	3681	3629	3610
32.5	3577	3599	3565	3508	3484
35.0	3455	3472	3436	3370	3342
37.5	3318	3326	3291	3215	3183
40.0	3160	3171	3125	3041	3009
42.5	2991	3001	2944	2857	2821
45.0	2810	2817	2756	2662	2624
47.5	2617	2623	2558	2456	2411
50.0	2413	2419	2354	2253	2195
52.5	2205	2210	2147	2039	1994
55.0	2009	2000	1938	1842	1802
57.5	1792	1799	1734	1653	1617
60.0	1583	1601	1544	1476	1445
62.5	1400	1392	1363	1312	1287
65.0	1204	1215	1198	1156	1142
67.5	1026	1049	1039	1020	1011
70.0	870	893	897	897	892
72.5	716	749	767	782	787
75.0	584	618	651	685	700
77.5	462	496	546	602	623
80.0	349	391	454	526	551
82.5	254	293	372	455	483
85.0	166	211	298	386	415
87.5	88	135	228	318	346
90.0	20	70	166	252	276
92.5	3	48	138	215	235
95.0	3	48	136	202	216
97.5	3	49	133	191	203
100.0	3	49	130	179	190
102.5	3	49	125	169	178
105.0	4	50	121	161	170
107.5	4	49	118	154	161
110.0	5	50	115	149	156
112.5	5	49	112	143	151
115.0	6	49	110	140	148
117.5	6	49	107	137	143
120.0	8	49	105	134	141
122.5	8	48	101	130	137
125.0	9	47	98	127	134
127.5	10	46	94	123	130
130.0	10	44	90	118	126
132.5	11	43	86	113	120

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CANDELA TABULATION - (Cont.)

135.0	12	41	81	107	115
137.5	12	39	77	100	109
140.0	13	37	71	93	101
142.5	13	34	66	86	93
145.0	13	32	59	80	86
147.5	13	30	55	73	79
150.0	13	28	50	66	71
152.5	13	25	45	58	64
155.0	13	23	40	52	56
157.5	14	22	36	47	50
160.0	13	19	32	40	44
162.5	13	18	29	36	39
165.0	13	17	25	31	33
167.5	13	16	22	27	28
170.0	13	15	19	23	24
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	1540.79	N.A.	12.80
0-30	3313.52	N.A.	27.60
0-40	5446.66	N.A.	45.30
0-60	9273.43	N.A.	77.20
0-80	11150.52	N.A.	92.80
0-90	11477.49	N.A.	95.50
10-90	11084.21	N.A.	92.20
20-40	3905.87	N.A.	32.50
20-50	6012.25	N.A.	50.00
40-70	5009.54	N.A.	41.70
60-80	1877.09	N.A.	15.60
70-80	694.32	N.A.	5.80
80-90	326.97	N.A.	2.70
90-110	250.10	N.A.	2.10
90-120	343.46	N.A.	2.90
90-130	420.32	N.A.	3.50
90-150	511.88	N.A.	4.30
90-180	538.18	N.A.	4.50
110-180	288.07	N.A.	2.40
0-180	12015.66	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	393.27
10-20	1147.51
20-30	1772.74
30-40	2133.13
40-50	2106.38
50-60	1720.4
60-70	1182.77
70-80	694.32
80-90	326.97
90-100	138.93
100-110	111.17
110-120	93.35
120-130	76.86
130-140	56.58
140-150	34.98
150-160	17.74
160-170	7.04
170-180	1.52

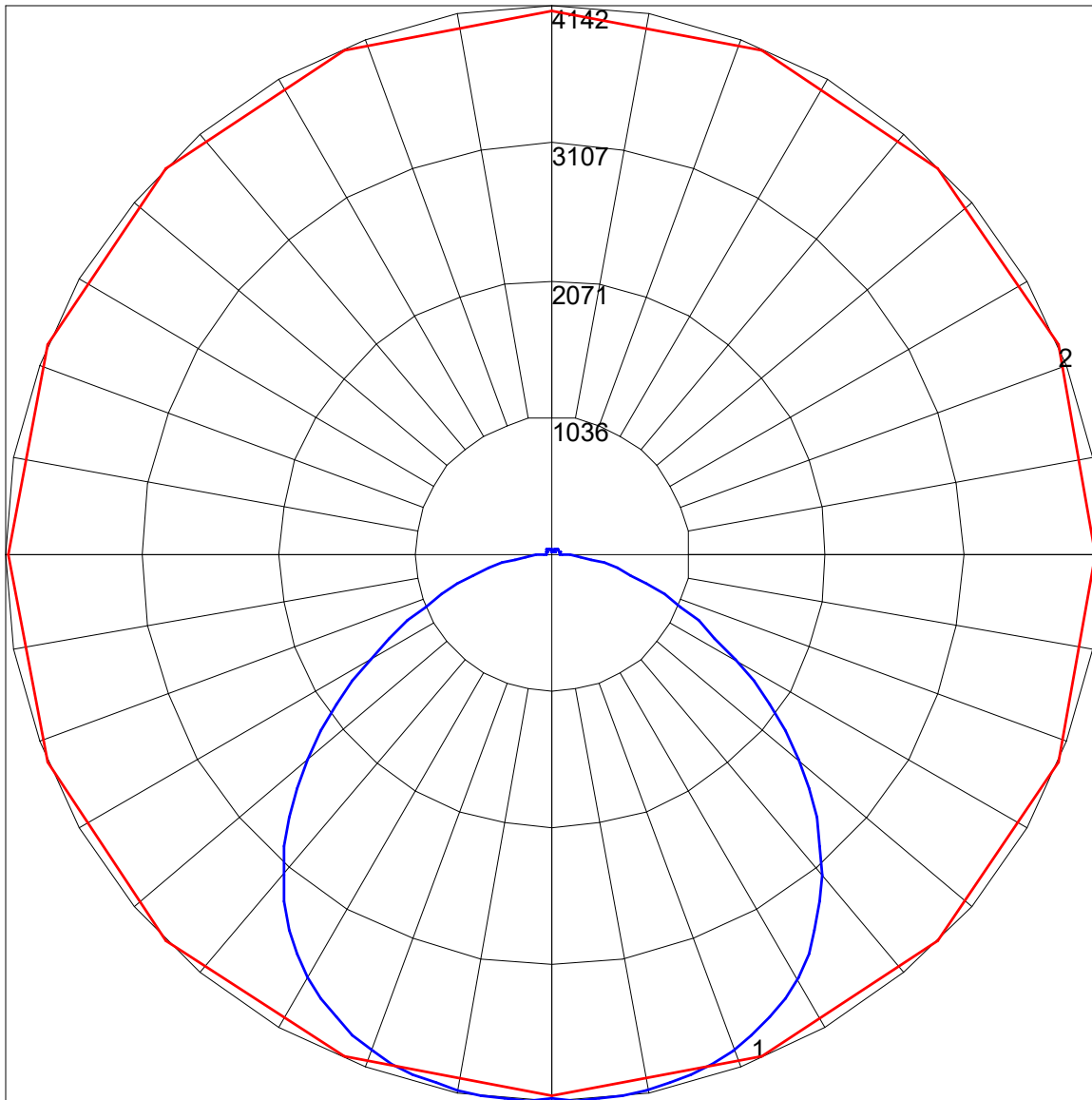
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC RW	80				70				50			30			10			0
	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 = 4142 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.)