



IES INDOOR REPORT
PHOTOMETRIC FILENAME : WNA10-LED-HO-WW.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-7991
[TESTLAB] LSI INDUSTRIES, INC.
[TESTDATE] 08/04/16
[ISSUE DATE] 03/15/23
[MANUFAC] LSI INDUSTRIES, INC.
[LUMCAT] WNA10-LED-HO-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	6599
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	122
Total Luminaire Watts	54
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	7080	6816	6287
55	6196	5905	5367
65	5182	5081	4794
75	4142	4725	4991
85	3498	6696	8502

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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	2295	2295	2295	2295	2295
2.5	2318	2309	2300	2288	2281
5.0	2318	2309	2300	2288	2281
7.5	2315	2306	2297	2285	2279
10.0	2309	2299	2291	2279	2273
12.5	2295	2286	2278	2268	2262
15.0	2277	2270	2262	2250	2245
17.5	2253	2246	2239	2227	2221
20.0	2225	2219	2211	2197	2189
22.5	2189	2185	2173	2156	2147
25.0	2147	2144	2130	2108	2095
27.5	2097	2095	2078	2047	2034
30.0	2039	2038	2017	1979	1962
32.5	1973	1972	1946	1901	1876
35.0	1900	1898	1865	1813	1784
37.5	1819	1816	1776	1715	1683
40.0	1729	1724	1678	1612	1577
42.5	1634	1628	1576	1504	1467
45.0	1527	1521	1470	1394	1356
47.5	1420	1412	1359	1282	1247
50.0	1305	1302	1246	1174	1135
52.5	1195	1192	1139	1068	1034
55.0	1084	1083	1033	966	939
57.5	975	976	932	873	846
60.0	869	871	832	785	764
62.5	766	769	740	704	688
65.0	668	671	655	630	618
67.5	567	578	574	563	555
70.0	480	496	500	499	497
72.5	401	420	434	443	442
75.0	327	350	373	389	394
77.5	260	286	318	341	347
80.0	200	229	266	297	305
82.5	144	174	220	256	265
85.0	93	127	178	217	226
87.5	50	84	138	177	188
90.0	10	46	102	143	151
92.5	1	35	88	125	134
95.0	1	35	86	119	126
97.5	2	35	85	115	121
100.0	2	35	83	110	116
102.5	2	35	80	106	111
105.0	2	34	78	102	107
107.5	2	34	76	98	104
110.0	3	34	75	96	101
112.5	3	34	73	93	98
115.0	3	33	71	90	95
117.5	3	33	69	88	93
120.0	3	32	67	85	90
122.5	4	32	65	83	88
125.0	4	31	63	80	85
127.5	4	29	60	77	82
130.0	4	28	57	74	78
132.5	5	27	55	70	75

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CANDELA TABULATION - (Cont.)

135.0	5	25	52	67	72
137.5	5	24	49	64	68
140.0	5	22	46	60	64
142.5	6	21	42	56	60
145.0	6	19	39	52	56
147.5	5	17	35	48	51
150.0	6	16	32	43	47
152.5	6	14	29	38	42
155.0	6	14	26	35	38
157.5	6	12	23	31	33
160.0	6	11	20	27	29
162.5	6	10	17	23	25
165.0	6	9	15	19	21
167.5	6	8	13	17	18
170.0	6	8	11	14	15
172.5	6	7	9	11	12
175.0	6	7	8	9	9
177.5	6	6	7	7	7
180.0	6	6	6	6	6

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	857.55	N.A.	13.00
0-30	1835.69	N.A.	27.80
0-40	2992.5	N.A.	45.30
0-60	5031.84	N.A.	76.30
0-80	6071.34	N.A.	92.00
0-90	6259.47	N.A.	94.90
10-90	6040.31	N.A.	91.50
20-40	2134.95	N.A.	32.40
20-50	3257.00	N.A.	49.40
40-70	2686.11	N.A.	40.70
60-80	1039.5	N.A.	15.80
70-80	392.73	N.A.	6.00
80-90	188.12	N.A.	2.90
90-110	156.27	N.A.	2.40
90-120	216.82	N.A.	3.30
90-130	265.60	N.A.	4.00
90-150	323.16	N.A.	4.90
90-180	339.46	N.A.	5.10
110-180	183.19	N.A.	2.80
0-180	6598.93	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	219.16
10-20	638.39
20-30	978.14
30-40	1156.81
40-50	1122.05
50-60	917.29
60-70	646.77
70-80	392.73
80-90	188.12
90-100	84.90
100-110	71.37
110-120	60.54
120-130	48.78
130-140	35.40
140-150	22.17
150-160	11.25
160-170	4.22
170-180	0.83

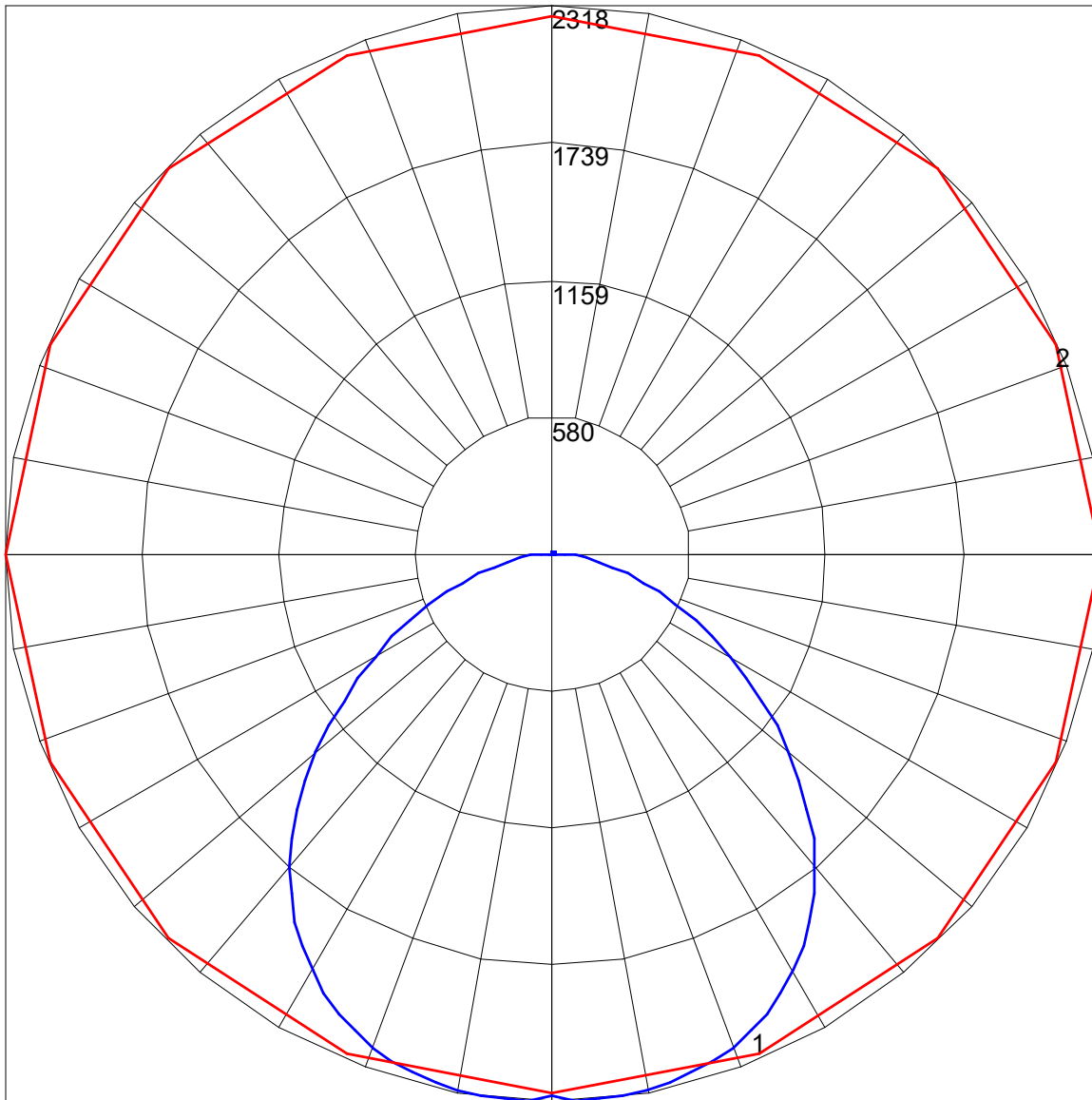
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	76	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	46	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	39	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 = 2318 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.)