



IES INDOOR REPORT
PHOTOMETRIC FILENAME : GA24-LED-VHO-NW-P12.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-4081A
[TESTLAB]LSI INDUSTRIES, INC
[ISSUE]DATE]02/29/16
[TEST]DATE]05/20/13
[MANUFAC]LSI INDUSTRIES, INC
[_ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER]SCALED FROM ORIGINAL TEST DATA
[OTHER]TEST PROCEDURE: IESNA LM-79-08
[_SEARCH _SOURCETYPE] LED
[_SEARCH _APPLICATION] Indoor
[LUMCAT]GA24-LED-VHO-NW-P12

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	9589
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	109
Total Luminaire Watts	88
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.32
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	2.00 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4538	4384	4223
55	3518	3273	2879
65	2837	2221	2372
75	2464	1958	2693
85	3185	3167	3703

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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	3968.36	3968.36	3968.36	3968.36	3968.36
2.5	3976.48	3997.36	3971.84	3953.28	3950.96
5.0	3970.68	3988.08	3971.84	3945.16	3945.16
7.5	3957.92	3977.64	3949.80	3932.40	3928.92
10.0	3935.88	3952.12	3925.44	3916.16	3910.36
12.5	3904.56	3920.80	3898.76	3881.36	3877.88
15.0	3859.32	3879.04	3854.68	3840.76	3843.08
17.5	3814.08	3832.64	3808.28	3794.36	3796.68
20.0	3756.08	3771.16	3751.44	3734.04	3735.20
22.5	3688.80	3702.72	3680.68	3659.80	3657.48
25.0	3605.28	3619.20	3596.00	3565.84	3556.56
27.5	3511.32	3521.76	3491.60	3457.96	3452.16
30.0	3398.80	3409.24	3374.44	3338.48	3335.00
32.5	3267.72	3275.84	3239.88	3207.40	3201.60
35.0	3125.04	3129.68	3092.56	3056.60	3053.12
37.5	2967.28	2966.12	2931.32	2886.08	2874.48
40.0	2790.96	2786.32	2749.20	2686.56	2672.64
42.5	2598.40	2583.32	2536.92	2466.16	2456.88
45.0	2387.28	2367.56	2306.08	2238.80	2221.40
47.5	2164.56	2127.44	2077.56	2009.12	1973.16
50.0	1934.88	1915.16	1852.52	1782.92	1714.48
52.5	1713.32	1695.92	1621.68	1539.32	1461.60
55.0	1501.04	1484.80	1396.64	1306.16	1228.44
57.5	1303.84	1273.68	1168.12	1158.84	1132.16
60.0	1222.64	1177.40	1059.08	991.80	970.92
62.5	1050.96	986.00	865.36	831.72	843.32
65.0	892.04	817.80	698.32	712.24	745.88
67.5	756.32	673.96	573.04	617.12	676.28
70.0	638.00	566.08	474.44	546.36	611.32
72.5	546.36	483.72	411.80	493.00	562.60
75.0	474.44	421.08	377.00	446.60	518.52
77.5	412.96	368.88	354.96	402.52	464.00
80.0	353.80	320.16	323.64	359.60	397.88
82.5	284.20	266.80	271.44	308.56	323.64
85.0	206.48	206.48	205.32	244.76	240.12
87.5	129.92	134.56	127.60	161.24	150.80
90.0	39.44	41.76	38.28	49.88	46.40
92.5	5.80	6.96	5.80	3.48	6.96
95.0	2.32	4.64	2.32	3.48	5.80
97.5	8.12	2.32	3.48	3.48	4.64
100.0	3.48	3.48	4.64	3.48	3.48
102.5	3.48	3.48	5.80	3.48	5.80
105.0	6.96	6.96	3.48	4.64	3.48
107.5	4.64	4.64	6.96	3.48	5.80
110.0	5.80	3.48	4.64	5.80	1.16
112.5	3.48	5.80	4.64	3.48	4.64
115.0	3.48	4.64	2.32	5.80	5.80
117.5	4.64	5.80	4.64	6.96	5.80
120.0	6.96	4.64	5.80	6.96	4.64
122.5	8.12	4.64	6.96	4.64	6.96
125.0	6.96	6.96	5.80	8.12	3.48
127.5	5.80	6.96	5.80	8.12	8.12
130.0	8.12	5.80	6.96	5.80	5.80
132.5	9.28	5.80	6.96	4.64	9.28

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CANDELA TABULATION - (Cont.)

135.0	8.12	5.80	6.96	9.28	8.12
137.5	9.28	4.64	5.80	6.96	4.64
140.0	5.80	6.96	8.12	8.12	8.12
142.5	4.64	6.96	3.48	5.80	3.48
145.0	6.96	5.80	6.96	9.28	6.96
147.5	6.96	6.96	8.12	5.80	5.80
150.0	8.12	10.44	5.80	6.96	6.96
152.5	8.12	8.12	8.12	6.96	9.28
155.0	8.12	9.28	8.12	9.28	10.44
157.5	8.12	9.28	6.96	8.12	9.28
160.0	9.28	6.96	8.12	8.12	6.96
162.5	8.12	10.44	10.44	8.12	10.44
165.0	6.96	8.12	8.12	8.12	5.80
167.5	10.44	10.44	9.28	8.12	10.44
170.0	8.12	10.44	10.44	9.28	10.44
172.5	6.96	9.28	9.28	8.12	10.44
175.0	9.28	8.12	5.80	8.12	3.48
177.5	6.96	8.12	8.12	8.12	8.12
180.0	6.96	6.96	6.96	6.96	6.96

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1466.44	N.A.	15.30
0-30	3118.27	N.A.	32.50
0-40	5044.29	N.A.	52.60
0-60	8079.12	N.A.	84.30
0-80	9317.89	N.A.	97.20
0-90	9547.33	N.A.	99.60
10-90	9170.00	N.A.	95.60
20-40	3577.85	N.A.	37.30
20-50	5348.49	N.A.	55.80
40-70	3808.6	N.A.	39.70
60-80	1238.76	N.A.	12.90
70-80	464.99	N.A.	4.80
80-90	229.45	N.A.	2.40
90-110	14.94	N.A.	0.20
90-120	19.79	N.A.	0.20
90-130	25.50	N.A.	0.30
90-150	34.96	N.A.	0.40
90-180	42.09	N.A.	0.40
110-180	27.15	N.A.	0.30
0-180	9589.42	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	377.33
10-20	1089.11
20-30	1651.83
30-40	1926.02
40-50	1770.64
50-60	1264.19
60-70	773.77
70-80	464.99
80-90	229.45
90-100	10.03
100-110	4.91
110-120	4.85
120-130	5.71
130-140	5.28
140-150	4.18
150-160	3.81
160-170	2.51
170-180	0.81

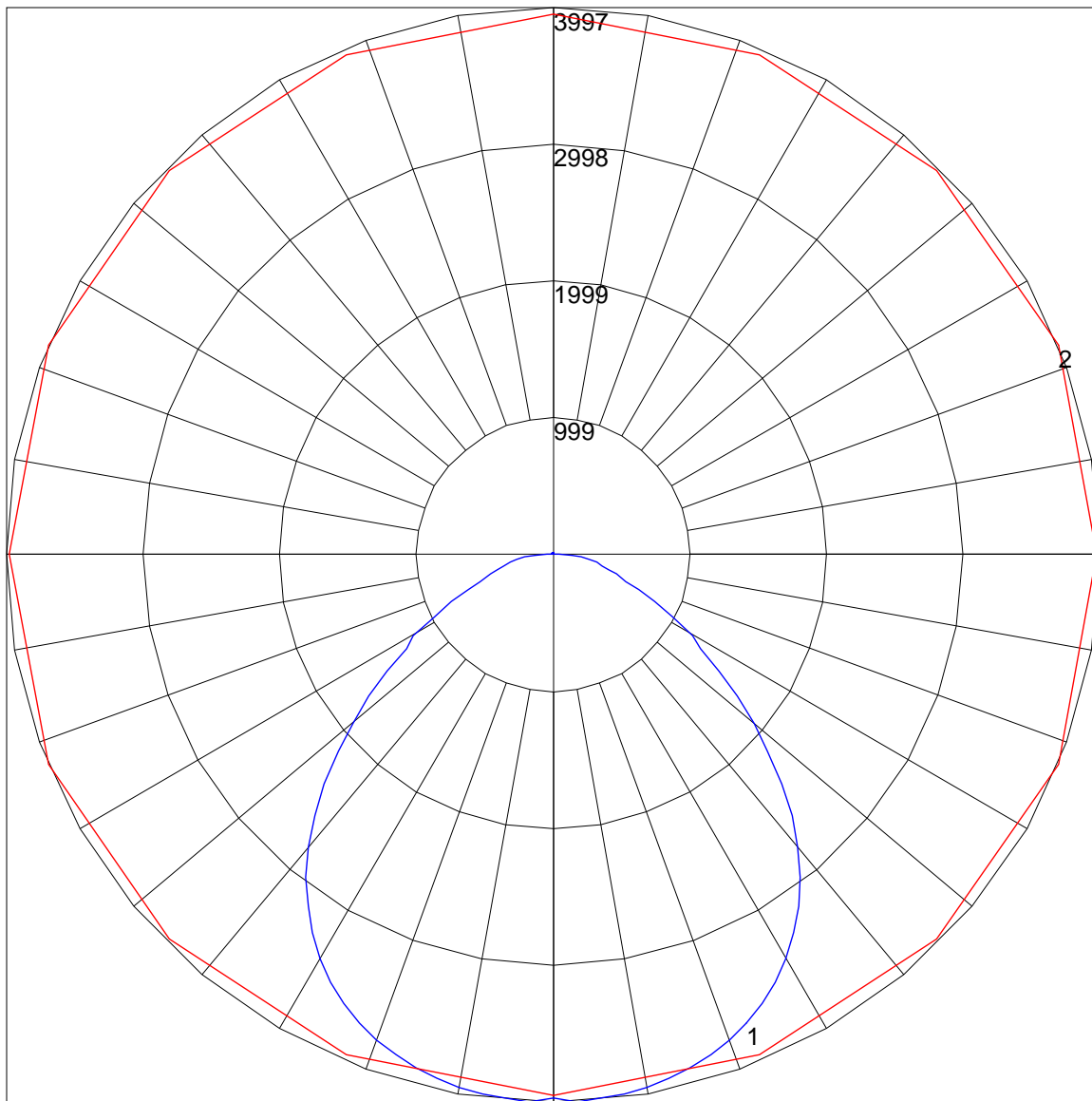
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	103	99	96	98	95	93	94	92	90	91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	64	62
4	85	74	66	59	83	72	65	59	70	63	58	68	62	57	65	60	56	54
5	79	66	58	52	76	65	57	51	63	56	51	61	55	50	59	54	50	48
6	73	60	52	46	71	59	51	45	57	50	45	56	49	45	54	49	44	42
7	68	55	47	41	66	54	46	41	53	45	40	51	45	40	50	44	40	38
8	63	50	42	37	62	50	42	36	48	41	36	47	41	36	46	40	36	34
9	59	46	38	33	58	46	38	33	45	38	33	43	37	33	42	37	32	31
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	39	34	30	28

POLAR GRAPH



Maximum Candela = 3997.36 Located At Horizontal Angle = 22.5, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (22.5 - 202.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)