



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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-4184A
[TESTLAB]LSI INDUSTRIES, INC
[ISSUEDATE]03/2/16
[TESTDATE]06/17/13
[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_SOURCE] LED
[_SEARCH_APPLICATION] Indoor
[LUMCAT]GA24-LED-VHO-WW-P12

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	9876
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	112
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	4719	4576	4349
55	3730	3499	2917
65	2981	2483	2339
75	2416	1946	2440
85	3131	3006	3757

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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	4046.08	4046.08	4046.08	4046.08	4046.08
2.5	4054.20	4073.92	4049.56	4034.48	4033.32
5.0	4048.40	4062.32	4042.60	4027.52	4027.52
7.5	4035.64	4053.04	4028.68	4013.60	4017.08
10.0	4013.60	4027.52	4005.48	3992.72	3992.72
12.5	3982.28	3996.20	3974.16	3954.44	3960.24
15.0	3941.68	3956.76	3933.56	3913.84	3917.32
17.5	3895.28	3909.20	3880.20	3860.48	3861.64
20.0	3836.12	3848.88	3818.72	3799.00	3792.04
22.5	3767.68	3776.96	3746.80	3727.08	3728.24
25.0	3684.16	3695.76	3660.96	3637.76	3638.92
27.5	3592.52	3597.16	3564.68	3535.68	3528.72
30.0	3476.52	3484.64	3454.48	3420.84	3415.04
32.5	3352.40	3357.04	3325.72	3289.76	3282.80
35.0	3209.72	3213.20	3178.40	3143.60	3129.68
37.5	3053.12	3053.12	3018.32	2971.92	2958.00
40.0	2877.96	2875.64	2832.72	2781.68	2759.64
42.5	2686.56	2678.44	2627.40	2560.12	2534.60
45.0	2482.40	2468.48	2407.00	2326.96	2287.52
47.5	2265.48	2248.08	2181.96	2081.04	2025.36
50.0	2035.80	2024.20	1959.24	1825.84	1755.08
52.5	1808.44	1794.52	1728.40	1562.52	1482.48
55.0	1591.52	1571.80	1492.92	1310.80	1244.68
57.5	1381.56	1352.56	1303.84	1200.60	1143.76
60.0	1236.56	1193.64	1139.12	1021.96	981.36
62.5	1105.48	1048.64	945.40	873.48	845.64
65.0	937.28	878.12	780.68	759.80	735.44
67.5	789.96	736.60	641.48	658.88	643.80
70.0	665.84	612.48	528.96	582.32	573.04
72.5	555.64	512.72	440.80	515.04	516.20
75.0	465.16	435.00	374.68	457.04	469.80
77.5	387.44	368.88	329.44	403.68	426.88
80.0	327.12	307.40	288.84	351.48	379.32
82.5	265.64	248.24	247.08	298.12	320.16
85.0	203.00	187.92	194.88	236.64	243.60
87.5	126.44	120.64	127.60	156.60	161.24
90.0	46.40	63.80	58.00	75.40	69.60
92.5	10.44	5.80	10.44	13.92	12.76
95.0	1.16	3.48	4.64	3.48	5.80
97.5	1.16	3.48	2.32	5.80	3.48
100.0	10.44	3.48	6.96	8.12	4.64
102.5	5.80	5.80	3.48	5.80	2.32
105.0	8.12	4.64	2.32	4.64	3.48
107.5	4.64	5.80	4.64	3.48	8.12
110.0	4.64	4.64	3.48	3.48	3.48
112.5	6.96	3.48	4.64	6.96	6.96
115.0	4.64	4.64	4.64	5.80	3.48
117.5	4.64	3.48	4.64	5.80	10.44
120.0	3.48	4.64	4.64	5.80	5.80
122.5	5.80	5.80	3.48	4.64	5.80
125.0	6.96	4.64	5.80	5.80	2.32
127.5	5.80	4.64	8.12	5.80	8.12
130.0	10.44	3.48	5.80	5.80	6.96
132.5	8.12	4.64	5.80	4.64	8.12

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CANDELA TABULATION - (Cont.)

135.0	2.32	10.44	6.96	3.48	8.12
137.5	2.32	5.80	11.60	5.80	6.96
140.0	5.80	8.12	4.64	4.64	6.96
142.5	4.64	6.96	6.96	5.80	6.96
145.0	3.48	5.80	8.12	2.32	5.80
147.5	6.96	8.12	8.12	8.12	5.80
150.0	4.64	4.64	6.96	8.12	4.64
152.5	6.96	5.80	5.80	9.28	4.64
155.0	5.80	8.12	9.28	6.96	8.12
157.5	9.28	8.12	6.96	6.96	6.96
160.0	5.80	5.80	4.64	5.80	11.60
162.5	3.48	8.12	9.28	9.28	8.12
165.0	8.12	11.60	6.96	4.64	4.64
167.5	9.28	6.96	9.28	10.44	4.64
170.0	10.44	9.28	8.12	9.28	5.80
172.5	9.28	8.12	6.96	4.64	6.96
175.0	4.64	5.80	6.96	8.12	6.96
177.5	6.96	5.80	8.12	8.12	5.80
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	1494.97	N.A.	15.10
0-30	3181.06	N.A.	32.20
0-40	5160.17	N.A.	52.20
0-60	8324.49	N.A.	84.30
0-80	9609.9	N.A.	97.30
0-90	9831.58	N.A.	99.50
10-90	9446.76	N.A.	95.70
20-40	3665.19	N.A.	37.10
20-50	5505.94	N.A.	55.80
40-70	3983.27	N.A.	40.30
60-80	1285.41	N.A.	13.00
70-80	466.47	N.A.	4.70
80-90	221.68	N.A.	2.20
90-110	19.60	N.A.	0.20
90-120	24.58	N.A.	0.20
90-130	29.50	N.A.	0.30
90-150	38.33	N.A.	0.40
90-180	44.48	N.A.	0.50
110-180	24.88	N.A.	0.30
0-180	9876.06	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	384.82
10-20	1110.15
20-30	1686.08
30-40	1979.11
40-50	1840.75
50-60	1323.57
60-70	818.95
70-80	466.47
80-90	221.68
90-100	14.46
100-110	5.14
110-120	4.98
120-130	4.91
130-140	4.88
140-150	3.96
150-160	3.25
160-170	2.20
170-180	0.70

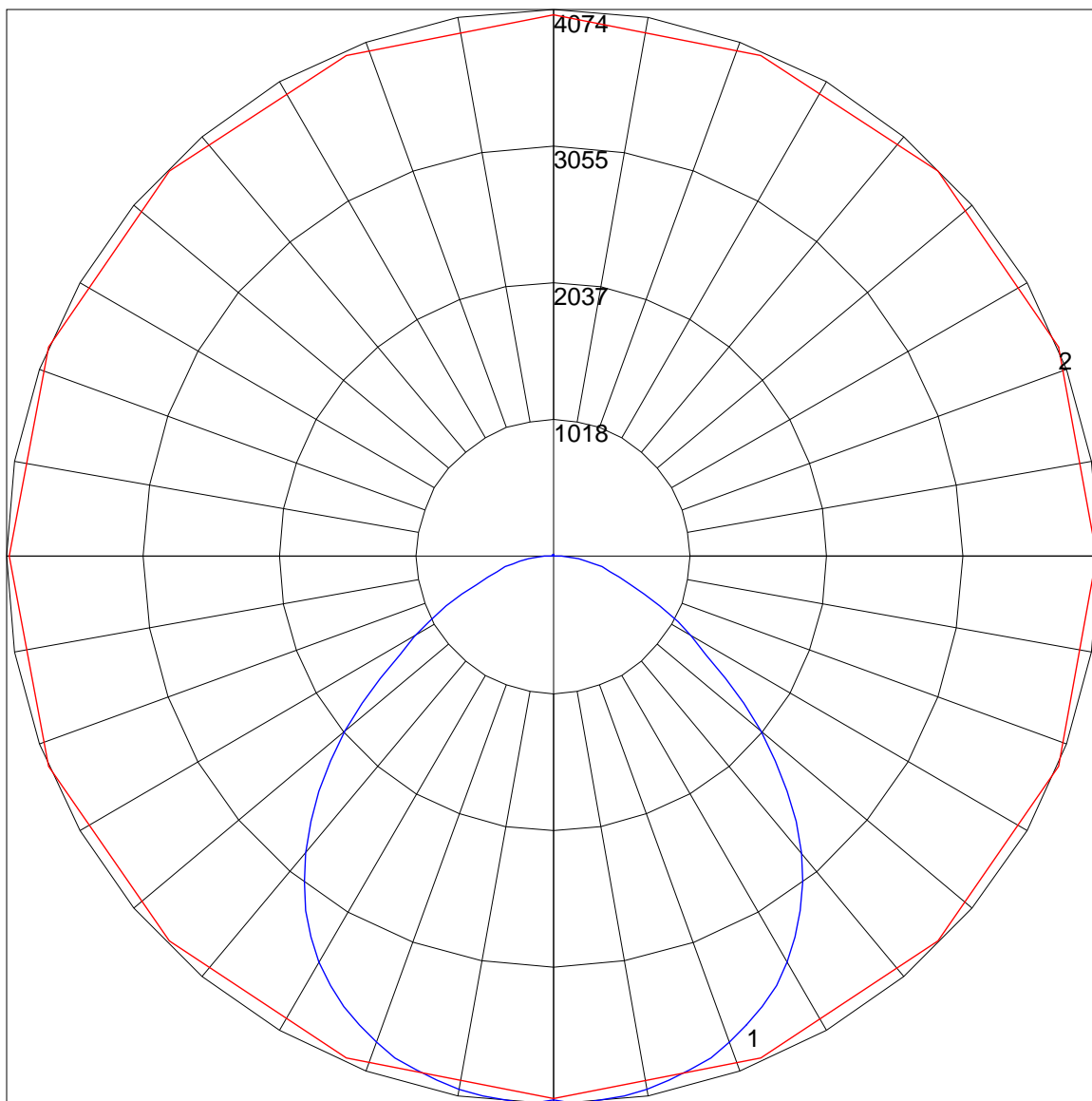
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	72	68	64	62
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56	54
5	78	66	58	52	76	65	57	51	63	56	51	61	55	50	59	54	50	48
6	73	60	52	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42
7	68	55	46	41	66	54	46	40	52	45	40	51	45	40	50	44	39	38
8	63	50	42	36	62	49	42	36	48	41	36	47	40	36	46	40	36	34
9	59	46	38	33	58	46	38	33	44	37	33	43	37	32	42	36	32	30
10	55	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	29	28

POLAR GRAPH



Maximum Candela = 4073.92 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.)