



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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-4148A
[TESTLAB]LSI INDUSTRIES, INC
[ISSUEDATE]03/2/16
[TESTDATE]06/11/13
[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-CW-P12

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	10990
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	125
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)	1.34
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	5266	5120	4876
55	4181	3942	3300
65	3324	2778	2620
75	2681	2187	2717
85	3435	3310	4169

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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	4452.08	4452.08	4452.08	4452.08	4452.08
2.5	4453.24	4485.72	4452.08	4435.84	4438.16
5.0	4449.76	4479.92	4447.44	4428.88	4432.36
7.5	4433.52	4463.68	4430.04	4417.28	4419.60
10.0	4409.16	4437.00	4408.00	4394.08	4396.40
12.5	4380.16	4405.68	4377.84	4359.28	4356.96
15.0	4338.40	4366.24	4334.92	4311.72	4318.68
17.5	4290.84	4312.88	4283.88	4257.20	4260.68
20.0	4229.36	4253.72	4218.92	4189.92	4195.72
22.5	4157.44	4178.32	4141.20	4112.20	4113.36
25.0	4072.76	4092.48	4053.04	4022.88	4025.20
27.5	3969.52	3988.08	3949.80	3911.52	3912.68
30.0	3852.36	3870.92	3831.48	3786.24	3785.08
32.5	3717.80	3734.04	3692.28	3644.72	3643.56
35.0	3562.36	3577.44	3535.68	3488.12	3481.16
37.5	3391.84	3403.44	3358.20	3304.84	3294.40
40.0	3201.60	3210.88	3158.68	3094.88	3082.12
42.5	2995.12	2993.96	2933.64	2855.92	2833.88
45.0	2770.08	2763.12	2693.52	2599.56	2564.76
47.5	2528.80	2517.20	2442.96	2330.44	2278.24
50.0	2279.40	2268.96	2197.04	2049.72	1975.48
52.5	2027.68	2014.92	1943.00	1759.72	1676.20
55.0	1784.08	1769.00	1682.00	1483.64	1408.24
57.5	1549.76	1520.76	1418.68	1260.92	1278.32
60.0	1340.96	1332.84	1252.80	1143.76	1097.36
62.5	1202.92	1173.92	1060.24	979.04	944.24
65.0	1045.16	979.04	873.48	845.64	823.60
67.5	882.76	820.12	713.40	734.28	719.20
70.0	737.76	685.56	591.60	649.60	640.32
72.5	614.80	575.36	494.16	575.36	575.36
75.0	516.20	486.04	421.08	510.40	523.16
77.5	430.36	411.80	368.88	451.24	473.28
80.0	360.76	342.20	323.64	390.92	419.92
82.5	295.80	276.08	274.92	330.60	356.12
85.0	222.72	207.64	214.60	262.16	270.28
87.5	138.04	134.56	141.52	172.84	176.32
90.0	52.20	56.84	62.64	83.52	77.72
92.5	10.44	12.76	11.60	16.24	12.76
95.0	3.48	6.96	6.96	6.96	8.12
97.5	5.80	10.44	6.96	8.12	5.80
100.0	5.80	8.12	5.80	6.96	6.96
102.5	10.44	3.48	6.96	8.12	10.44
105.0	10.44	6.96	8.12	6.96	5.80
107.5	5.80	5.80	8.12	10.44	4.64
110.0	2.32	8.12	5.80	6.96	5.80
112.5	8.12	8.12	10.44	9.28	9.28
115.0	4.64	8.12	5.80	8.12	5.80
117.5	9.28	8.12	8.12	5.80	5.80
120.0	9.28	6.96	8.12	9.28	8.12
122.5	9.28	9.28	10.44	10.44	9.28
125.0	5.80	6.96	8.12	6.96	9.28
127.5	5.80	5.80	9.28	10.44	9.28
130.0	6.96	9.28	4.64	6.96	8.12
132.5	11.60	9.28	6.96	9.28	8.12

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CANDELA TABULATION - (Cont.)

135.0	9.28	6.96	8.12	6.96	5.80
137.5	10.44	8.12	10.44	10.44	8.12
140.0	9.28	8.12	8.12	6.96	9.28
142.5	6.96	9.28	8.12	8.12	6.96
145.0	8.12	10.44	9.28	9.28	9.28
147.5	8.12	8.12	10.44	9.28	10.44
150.0	9.28	8.12	8.12	10.44	9.28
152.5	8.12	12.76	9.28	11.60	6.96
155.0	11.60	10.44	10.44	8.12	10.44
157.5	10.44	9.28	11.60	9.28	12.76
160.0	12.76	11.60	13.92	13.92	9.28
162.5	10.44	11.60	10.44	12.76	13.92
165.0	12.76	13.92	11.60	11.60	11.60
167.5	12.76	12.76	10.44	12.76	12.76
170.0	9.28	9.28	11.60	10.44	12.76
172.5	15.08	11.60	11.60	12.76	11.60
175.0	10.44	11.60	13.92	11.60	11.60
177.5	8.12	10.44	11.60	10.44	12.76
180.0	10.44	10.44	10.44	10.44	10.44

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1647.4	N.A.	15.00
0-30	3512.85	N.A.	32.00
0-40	5712.78	N.A.	52.00
0-60	9249.43	N.A.	84.20
0-80	10682.73	N.A.	97.20
0-90	10927.98	N.A.	99.40
10-90	10504.53	N.A.	95.60
20-40	4065.37	N.A.	37.00
20-50	6123.62	N.A.	55.70
40-70	4449.23	N.A.	40.50
60-80	1433.29	N.A.	13.00
70-80	520.72	N.A.	4.70
80-90	245.25	N.A.	2.20
90-110	25.22	N.A.	0.20
90-120	32.81	N.A.	0.30
90-130	40.28	N.A.	0.40
90-150	52.27	N.A.	0.50
90-180	61.56	N.A.	0.60
110-180	36.34	N.A.	0.30
0-180	10989.54	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	423.44
10-20	1223.96
20-30	1865.45
30-40	2199.93
40-50	2058.25
50-60	1478.4
60-70	912.57
70-80	520.72
80-90	245.25
90-100	17.63
100-110	7.59
110-120	7.59
120-130	7.46
130-140	6.46
140-150	5.54
150-160	4.78
160-170	3.40
170-180	1.11

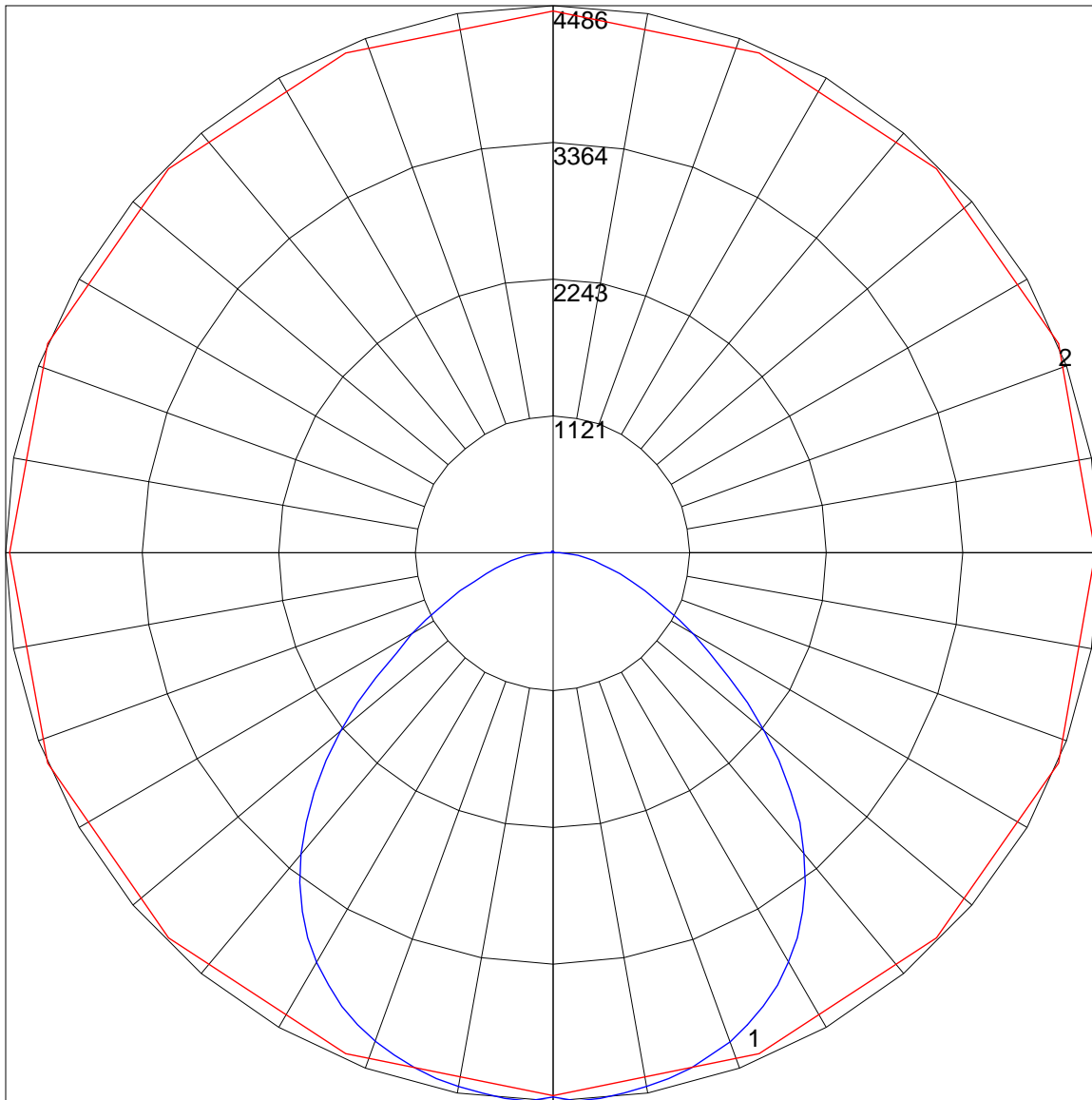
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	99
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	77	74	72
3	92	82	75	69	90	81	74	68	78	72	67	75	70	65	72	68	64	62
4	85	74	65	59	83	72	65	59	70	63	58	67	62	57	65	60	56	54
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	49	47
6	73	60	51	45	71	59	51	45	57	50	45	55	49	44	54	48	44	42
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	49	44	39	37
8	63	50	42	36	61	49	42	36	48	41	36	47	40	36	46	40	35	34
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28

POLAR GRAPH



Maximum Candela = 4485.72 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.)