



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : GA14-LED-VHO-CW-P12.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST]LED-4687A  
[TESTLAB]LSI INDUSTRIES, INC  
[ISSUEDATE]3/2/16  
[TESTDATE]11/11/13  
[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]GA14-LED-VHO-CW-P12

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5647
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	131
Total Luminaire Watts	43
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.30
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.32
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	1.00 ft
Luminous Height	0.00 ft

**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	5738	5328	4472
55	4589	3844	3039
65	3468	2627	2465
75	2735	2060	2663
85	3542	3256	4330

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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>
<b>0.0</b>	2381.48	2381.48	2381.48	2381.48	2381.48
<b>2.5</b>	2444.12	2404.68	2376.84	2351.32	2332.76
<b>5.0</b>	2438.32	2398.88	2373.36	2347.84	2329.28
<b>7.5</b>	2431.36	2390.76	2364.08	2339.72	2321.16
<b>10.0</b>	2419.76	2379.16	2350.16	2325.80	2307.24
<b>12.5</b>	2401.20	2362.92	2332.76	2307.24	2287.52
<b>15.0</b>	2380.32	2342.04	2309.56	2282.88	2263.16
<b>17.5</b>	2352.48	2314.20	2280.56	2251.56	2231.84
<b>20.0</b>	2318.84	2280.56	2245.76	2217.92	2198.20
<b>22.5</b>	2278.24	2241.12	2205.16	2177.32	2156.44
<b>25.0</b>	2229.52	2193.56	2159.92	2130.92	2110.04
<b>27.5</b>	2170.36	2135.56	2103.08	2074.08	2054.36
<b>30.0</b>	2104.24	2071.76	2039.28	2007.96	1987.08
<b>32.5</b>	2024.20	1995.20	1965.04	1926.76	1903.56
<b>35.0</b>	1938.36	1910.52	1876.88	1828.16	1796.84
<b>37.5</b>	1845.56	1817.72	1774.80	1709.84	1666.92
<b>40.0</b>	1742.32	1713.32	1657.64	1571.80	1521.92
<b>42.5</b>	1630.96	1596.16	1533.52	1423.32	1347.92
<b>45.0</b>	1509.16	1474.36	1401.28	1258.60	1176.24
<b>47.5</b>	1378.08	1350.24	1266.72	1091.56	1011.52
<b>50.0</b>	1245.84	1222.64	1119.40	933.80	865.36
<b>52.5</b>	1108.96	1091.56	963.96	792.28	740.08
<b>55.0</b>	979.04	957.00	820.12	685.56	648.44
<b>57.5</b>	861.88	820.12	698.32	597.40	570.72
<b>60.0</b>	749.36	690.20	590.44	523.16	503.44
<b>62.5</b>	643.80	575.36	496.48	454.72	439.64
<b>65.0</b>	545.20	479.08	412.96	399.04	387.44
<b>67.5</b>	458.20	400.20	337.56	352.64	343.36
<b>70.0</b>	385.12	336.40	277.24	314.36	308.56
<b>72.5</b>	319.00	284.20	232.00	283.04	279.56
<b>75.0</b>	263.32	241.28	198.36	255.20	256.36
<b>77.5</b>	220.40	204.16	175.16	225.04	234.32
<b>80.0</b>	187.92	170.52	156.60	194.88	209.96
<b>82.5</b>	154.28	136.88	135.72	163.56	178.64
<b>85.0</b>	114.84	102.08	105.56	132.24	140.36
<b>87.5</b>	67.28	64.96	66.12	88.16	87.00
<b>90.0</b>	0.00	0.00	0.00	0.00	0.00

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	879.30	N.A.	15.60
0-30	1874.64	N.A.	33.20
0-40	3038.33	N.A.	53.80
0-60	4830.78	N.A.	85.50
0-80	5529.93	N.A.	97.90
0-90	5647.48	N.A.	100.00
10-90	5421.35	N.A.	96.00
20-40	2159.03	N.A.	38.20
20-50	3211.92	N.A.	56.90
40-70	2235.4	N.A.	39.60
60-80	699.15	N.A.	12.40
70-80	256.20	N.A.	4.50
80-90	117.55	N.A.	2.10
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	5647.48	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	226.13
10-20	653.18
20-30	995.34
30-40	1163.69
40-50	1052.89
50-60	739.56
60-70	442.95
70-80	256.20
80-90	117.55
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

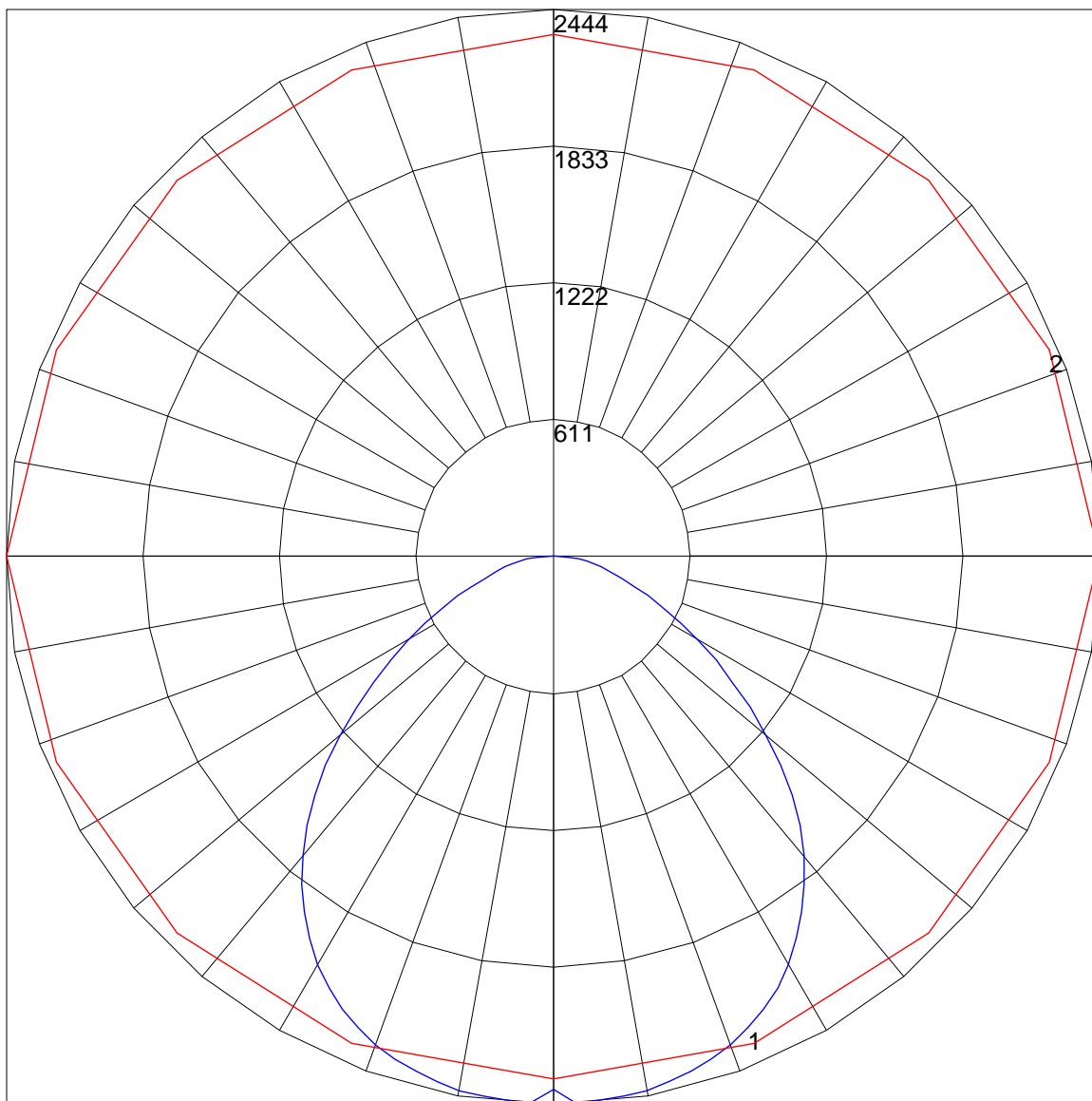
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	110	105	101	98	107	103	99	96	99	96	93	95	93	90	91	89	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73
3	93	83	75	69	90	81	74	69	79	73	68	76	71	66	73	69	65	63
4	85	74	66	60	83	73	65	60	71	64	59	68	63	58	66	61	57	55
5	79	67	59	52	77	66	58	52	64	57	52	62	56	51	60	55	50	48
6	73	61	52	46	71	60	52	46	58	51	46	56	50	45	55	49	45	43
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40	38
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	46	41	36	35
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33	31
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30	28

POLAR GRAPH



Maximum Candela = 2444.12 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.)