



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : GA14-LED-HO-NW-P12.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST]LED-4705A  
[TESTLAB]LSI INDUSTRIES, INC  
[ISSUEDATE]2/29/16  
[TESTDATE]11/13/13  
[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-HO-NW-P12

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3707
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	109
Total Luminaire Watts	34
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	3784	3493	2942
55	3001	2463	1968
65	2221	1660	1564
75	1795	1362	1747
85	2326	2147	2755

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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>	1578.76	1578.76	1578.76	1578.76	1578.76
<b>2.5</b>	1619.36	1593.84	1575.28	1560.20	1549.76
<b>5.0</b>	1619.36	1590.36	1575.28	1556.72	1547.44
<b>7.5</b>	1612.40	1586.88	1569.48	1550.92	1540.48
<b>10.0</b>	1601.96	1577.60	1559.04	1542.80	1533.52
<b>12.5</b>	1591.52	1567.16	1546.28	1530.04	1518.44
<b>15.0</b>	1575.28	1550.92	1531.20	1513.80	1501.04
<b>17.5</b>	1555.56	1534.68	1512.64	1495.24	1482.48
<b>20.0</b>	1532.36	1511.48	1487.12	1472.04	1458.12
<b>22.5</b>	1505.68	1483.64	1460.44	1441.88	1430.28
<b>25.0</b>	1474.36	1452.32	1429.12	1410.56	1398.96
<b>27.5</b>	1433.76	1415.20	1390.84	1371.12	1360.68
<b>30.0</b>	1389.68	1368.80	1349.08	1327.04	1320.08
<b>32.5</b>	1338.64	1318.92	1296.88	1274.84	1264.40
<b>35.0</b>	1278.32	1262.08	1238.88	1208.72	1184.36
<b>37.5</b>	1218.00	1200.60	1169.28	1122.88	1093.88
<b>40.0</b>	1150.72	1131.00	1089.24	1033.56	995.28
<b>42.5</b>	1075.32	1049.80	1005.72	936.12	894.36
<b>45.0</b>	995.28	966.28	918.72	831.72	773.72
<b>47.5</b>	909.44	882.76	823.60	711.08	653.08
<b>50.0</b>	817.80	799.24	727.32	595.08	555.64
<b>52.5</b>	728.48	707.60	621.76	505.76	480.24
<b>55.0</b>	640.32	620.60	525.48	439.64	419.92
<b>57.5</b>	561.44	528.96	446.60	383.96	365.40
<b>60.0</b>	483.72	444.28	378.16	336.40	319.00
<b>62.5</b>	412.96	367.72	316.68	292.32	279.56
<b>65.0</b>	349.16	306.24	261.00	256.36	245.92
<b>67.5</b>	293.48	256.36	213.44	227.36	219.24
<b>70.0</b>	247.08	216.92	177.48	204.16	198.36
<b>72.5</b>	207.64	186.76	149.64	184.44	182.12
<b>75.0</b>	172.84	158.92	131.08	167.04	168.20
<b>77.5</b>	143.84	136.88	118.32	147.32	154.28
<b>80.0</b>	122.96	114.84	106.72	127.60	136.88
<b>82.5</b>	102.08	91.64	91.64	107.88	114.84
<b>85.0</b>	75.40	68.44	69.60	84.68	89.32
<b>87.5</b>	46.40	44.08	42.92	56.84	54.52
<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	583.08	N.A.	15.70
0-30	1241.9	N.A.	33.50
0-40	2009.92	N.A.	54.20
0-60	3177.62	N.A.	85.70
0-80	3629.06	N.A.	97.90
0-90	3706.55	N.A.	100.00
10-90	3556.55	N.A.	96.00
20-40	1426.85	N.A.	38.50
20-50	2117.09	N.A.	57.10
40-70	1451.19	N.A.	39.20
60-80	451.44	N.A.	12.20
70-80	167.95	N.A.	4.50
80-90	77.50	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	3706.55	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	150.01
10-20	433.07
20-30	658.83
30-40	768.02
40-50	690.24
50-60	477.46
60-70	283.49
70-80	167.95
80-90	77.50
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

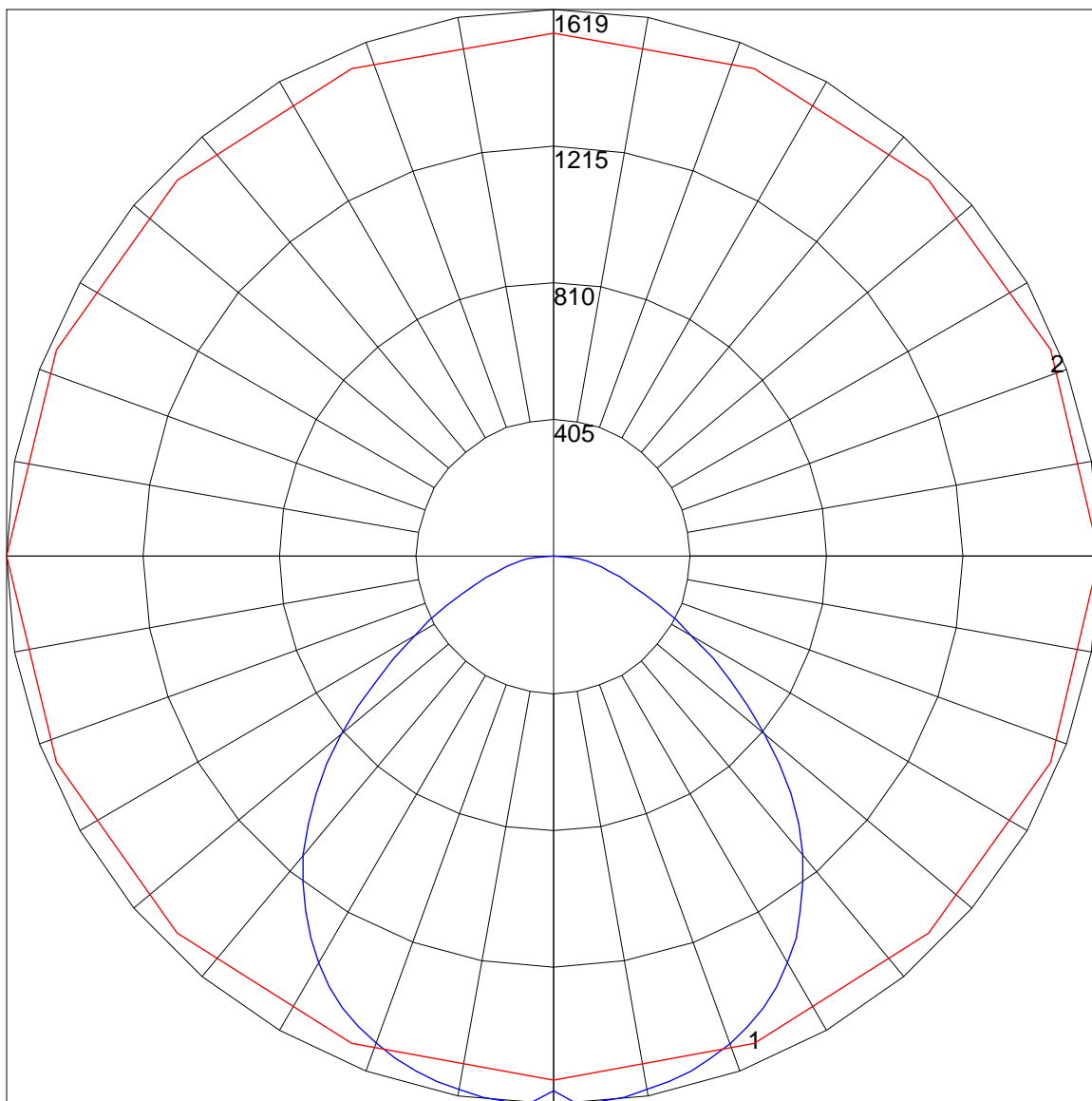
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	100	96	99	96	93	95	93	90	91	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	76	73
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	73	69	66	63
4	86	74	66	60	83	73	66	60	71	64	59	68	63	58	66	61	57	55
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49
6	73	61	53	46	72	60	52	46	58	51	46	57	50	46	55	49	45	43
7	68	56	47	41	67	55	47	41	53	46	41	52	46	41	51	45	40	39
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	37	33	31
10	56	43	36	31	55	43	36	31	42	35	31	41	35	30	40	34	30	29

POLAR GRAPH



Maximum Candela = 1619.36 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.)