



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

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST]LED-4157A  
[TESTLAB]LSI INDUSTRIES, INC  
[ISSUEDATE]02/29/16  
[TESTDATE]06/12/13  
[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]TYPE] LED  
[ \_SEARCH\_APPLICATION] Indoor  
[LUMCAT]GA24-LED-SS-NW-P12

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5169
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	115
Total Luminaire Watts	45
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	2492	2417	2320
55	1993	1892	1599
65	1472	1232	1170
75	1187	958	1205
85	1610	1557	1861

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**CANDELA TABULATION**

	<u><b>0.0</b></u>	<u><b>22.5</b></u>	<u><b>45.0</b></u>	<u><b>67.5</b></u>	<u><b>90.0</b></u>
<b>0.0</b>	2115.84	2115.84	2115.84	2115.84	2115.84
<b>2.5</b>	2118.16	2129.76	2117.00	2108.88	2105.40
<b>5.0</b>	2114.68	2126.28	2114.68	2104.24	2103.08
<b>7.5</b>	2106.56	2119.32	2105.40	2097.28	2094.96
<b>10.0</b>	2094.96	2106.56	2093.80	2085.68	2082.20
<b>12.5</b>	2079.88	2088.00	2077.56	2065.96	2065.96
<b>15.0</b>	2056.68	2070.60	2055.52	2043.92	2046.24
<b>17.5</b>	2033.48	2043.92	2030.00	2020.72	2016.08
<b>20.0</b>	2003.32	2013.76	1998.68	1989.40	1983.60
<b>22.5</b>	1969.68	1974.32	1961.56	1949.96	1946.48
<b>25.0</b>	1926.76	1933.72	1918.64	1904.72	1900.08
<b>27.5</b>	1879.20	1881.52	1867.60	1854.84	1847.88
<b>30.0</b>	1821.20	1825.84	1808.44	1794.52	1787.56
<b>32.5</b>	1756.24	1760.88	1744.64	1727.24	1719.12
<b>35.0</b>	1684.32	1688.96	1670.40	1651.84	1642.56
<b>37.5</b>	1601.96	1604.28	1586.88	1566.00	1556.72
<b>40.0</b>	1513.80	1514.96	1492.92	1467.40	1459.28
<b>42.5</b>	1416.36	1414.04	1386.20	1357.20	1345.60
<b>45.0</b>	1310.80	1306.16	1271.36	1236.56	1220.32
<b>47.5</b>	1198.28	1190.16	1155.36	1111.28	1088.08
<b>50.0</b>	1081.12	1073.00	1041.68	984.84	951.20
<b>52.5</b>	962.80	955.84	926.84	849.12	808.52
<b>55.0</b>	850.28	841.00	807.36	719.20	682.08
<b>57.5</b>	741.24	728.48	684.40	604.36	575.36
<b>60.0</b>	641.48	619.44	569.56	511.56	488.36
<b>62.5</b>	547.52	519.68	468.64	436.16	418.76
<b>65.0</b>	462.84	431.52	387.44	379.32	367.72
<b>67.5</b>	390.92	363.08	320.16	330.60	322.48
<b>70.0</b>	330.60	303.92	262.16	291.16	285.36
<b>72.5</b>	276.08	255.20	218.08	256.36	255.20
<b>75.0</b>	228.52	215.76	184.44	227.36	232.00
<b>77.5</b>	190.24	180.96	161.24	199.52	209.96
<b>80.0</b>	157.76	149.64	140.36	171.68	184.44
<b>82.5</b>	131.08	124.12	120.64	143.84	155.44
<b>85.0</b>	104.40	98.60	100.92	117.16	120.64
<b>87.5</b>	63.80	63.80	66.12	83.52	83.52
<b>90.0</b>	24.36	27.84	30.16	39.44	37.12
<b>92.5</b>	5.80	5.80	5.80	9.28	9.28
<b>95.0</b>	4.64	4.64	4.64	4.64	4.64
<b>97.5</b>	4.64	4.64	4.64	4.64	4.64
<b>100.0</b>	4.64	4.64	4.64	4.64	4.64
<b>102.5</b>	4.64	4.64	4.64	4.64	4.64
<b>105.0</b>	4.64	4.64	4.64	4.64	4.64
<b>107.5</b>	4.64	4.64	4.64	4.64	4.64
<b>110.0</b>	4.64	4.64	4.64	4.64	4.64
<b>112.5</b>	4.64	4.64	4.64	4.64	4.64
<b>115.0</b>	4.64	4.64	4.64	4.64	4.64
<b>117.5</b>	4.64	4.64	4.64	4.64	4.64
<b>120.0</b>	5.80	4.64	4.64	4.64	5.80
<b>122.5</b>	4.64	4.64	4.64	4.64	4.64
<b>125.0</b>	4.64	5.80	5.80	5.80	5.80
<b>127.5</b>	5.80	5.80	5.80	5.80	5.80
<b>130.0</b>	5.80	4.64	5.80	5.80	5.80
<b>132.5</b>	5.80	5.80	5.80	5.80	5.80

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**CANDELA TABULATION - (Cont.)**

<b>135.0</b>	5.80	5.80	5.80	5.80	5.80
<b>137.5</b>	5.80	5.80	5.80	5.80	5.80
<b>140.0</b>	5.80	5.80	5.80	5.80	5.80
<b>142.5</b>	5.80	4.64	5.80	5.80	5.80
<b>145.0</b>	5.80	5.80	5.80	5.80	5.80
<b>147.5</b>	5.80	5.80	5.80	5.80	5.80
<b>150.0</b>	5.80	5.80	5.80	5.80	5.80
<b>152.5</b>	5.80	5.80	5.80	5.80	5.80
<b>155.0</b>	5.80	5.80	5.80	5.80	5.80
<b>157.5</b>	6.96	5.80	6.96	5.80	5.80
<b>160.0</b>	6.96	5.80	6.96	6.96	5.80
<b>162.5</b>	6.96	6.96	6.96	5.80	6.96
<b>165.0</b>	6.96	6.96	6.96	6.96	6.96
<b>167.5</b>	6.96	6.96	6.96	6.96	5.80
<b>170.0</b>	6.96	6.96	6.96	6.96	6.96
<b>172.5</b>	6.96	6.96	5.80	6.96	6.96
<b>175.0</b>	5.80	5.80	5.80	5.80	6.96
<b>177.5</b>	5.80	5.80	5.80	5.80	5.80
<b>180.0</b>	5.80	5.80	5.80	5.80	5.80

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	781.39	N.A.	15.10
0-30	1663.94	N.A.	32.20
0-40	2703.62	N.A.	52.30
0-60	4382.69	N.A.	84.80
0-80	5021.36	N.A.	97.10
0-90	5132.26	N.A.	99.30
10-90	4931.16	N.A.	95.40
20-40	1922.23	N.A.	37.20
20-50	2897.81	N.A.	56.10
40-70	2087.24	N.A.	40.40
60-80	638.68	N.A.	12.40
70-80	230.51	N.A.	4.50
80-90	110.90	N.A.	2.10
90-110	14.40	N.A.	0.30
90-120	19.04	N.A.	0.40
90-130	23.81	N.A.	0.50
90-150	31.87	N.A.	0.60
90-180	37.17	N.A.	0.70
110-180	22.77	N.A.	0.40
0-180	5169.43	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	201.10
10-20	580.29
20-30	882.55
30-40	1039.68
40-50	975.58
50-60	703.49
60-70	408.17
70-80	230.51
80-90	110.90
90-100	9.49
100-110	4.91
110-120	4.64
120-130	4.77
130-140	4.46
140-150	3.60
150-160	2.77
160-170	1.92
170-180	0.61

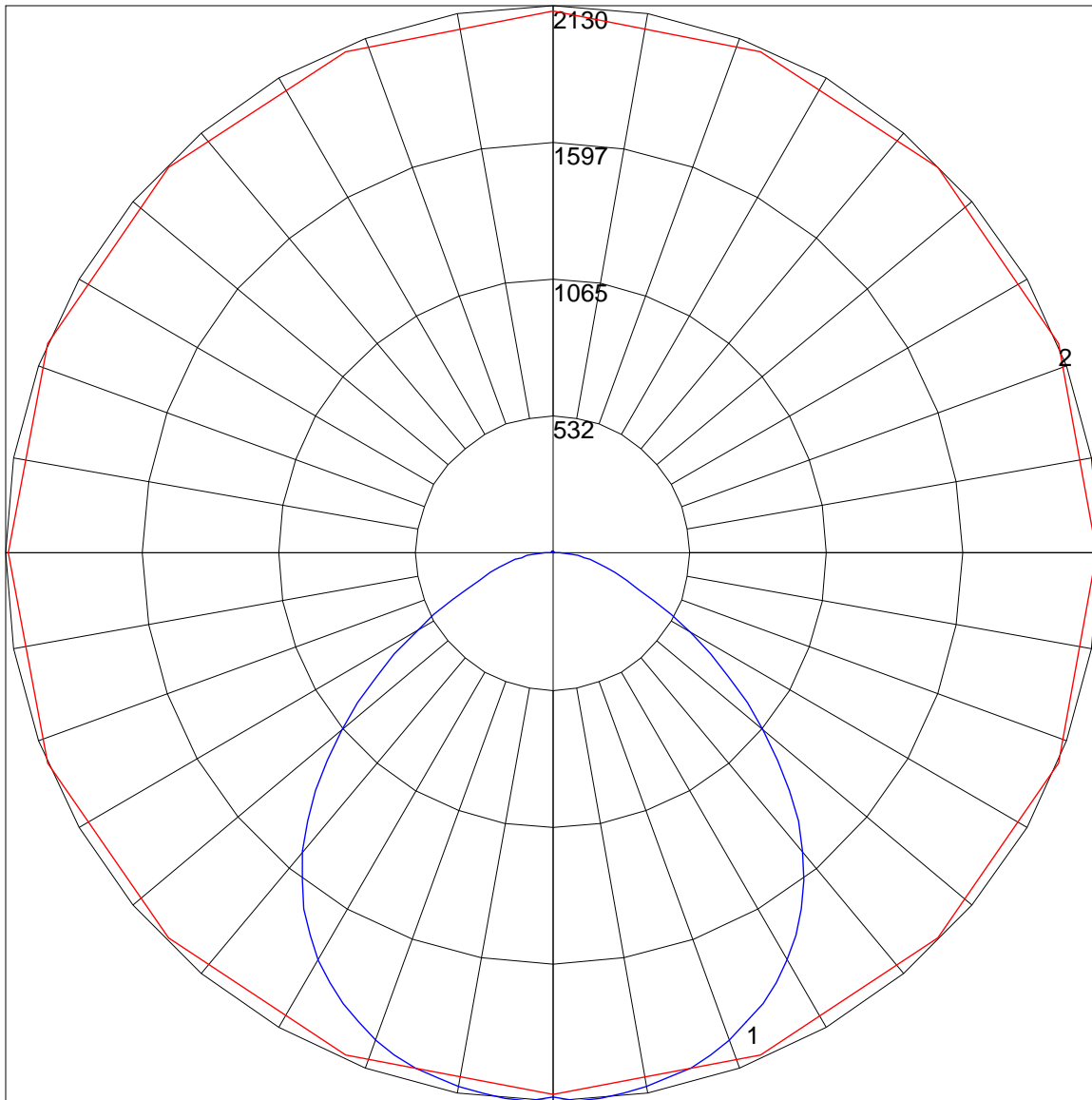
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	101	101	101	99
1	109	105	101	98	107	103	99	96	98	95	93	94	92	90	91	89	87	85
2	100	93	87	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	62
4	85	74	66	59	83	73	65	59	70	63	58	68	62	57	65	60	56	54
5	79	66	58	52	77	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	40	52	45	40	51	45	40	50	44	40	38
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36	34
9	59	46	38	33	58	46	38	33	44	38	33	43	37	33	42	37	32	31
10	55	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	29	28

POLAR GRAPH



Maximum Candela = 2129.76 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.)