



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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-4167A
[TESTLAB]LSI INDUSTRIES, INC
[ISSUE DATE]03/2/16
[TEST DATE]06/13/13
[MANUFACTURER]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-WW-P12

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5226
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	119
Total Luminaire Watts	44
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	2487	2410	2329
55	2004	1922	1631
65	1520	1284	1210
75	1253	1030	1259
85	1682	1646	2022

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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	2093.80	2093.80	2093.80	2093.80	2093.80
2.5	2100.76	2110.04	2091.48	2083.36	2085.68
5.0	2098.44	2106.56	2089.16	2079.88	2085.68
7.5	2091.48	2099.60	2084.52	2074.08	2077.56
10.0	2077.56	2083.36	2068.28	2061.32	2063.64
12.5	2060.16	2070.60	2053.20	2043.92	2046.24
15.0	2039.28	2053.20	2030.00	2020.72	2026.52
17.5	2016.08	2024.20	2007.96	2001.00	1995.20
20.0	1984.76	1996.36	1975.48	1967.36	1962.72
22.5	1949.96	1958.08	1944.16	1926.76	1930.24
25.0	1912.84	1915.16	1901.24	1883.84	1887.32
27.5	1865.28	1867.60	1847.88	1835.12	1836.28
30.0	1810.76	1814.24	1792.20	1777.12	1777.12
32.5	1746.96	1750.44	1729.56	1709.84	1707.52
35.0	1673.88	1677.36	1658.80	1636.76	1634.44
37.5	1592.68	1597.32	1574.12	1553.24	1548.60
40.0	1504.52	1510.32	1484.80	1460.44	1451.16
42.5	1415.20	1411.72	1380.40	1352.56	1347.92
45.0	1308.48	1307.32	1267.88	1236.56	1224.96
47.5	1200.60	1193.64	1157.68	1114.76	1092.72
50.0	1084.60	1077.64	1047.48	990.64	961.64
52.5	968.60	962.80	933.80	858.40	820.12
55.0	854.92	849.12	820.12	727.32	696.00
57.5	751.68	738.92	701.80	622.92	595.08
60.0	650.76	633.36	583.48	526.64	504.60
62.5	564.92	535.92	484.88	454.72	437.32
65.0	477.92	448.92	403.68	393.24	380.48
67.5	404.84	378.16	332.92	344.52	335.24
70.0	342.20	315.52	276.08	302.76	296.96
72.5	287.68	269.12	230.84	269.12	269.12
75.0	241.28	228.52	198.36	240.12	242.44
77.5	203.00	194.88	175.16	214.60	223.88
80.0	172.84	163.56	155.44	186.76	199.52
82.5	143.84	134.56	133.40	158.92	170.52
85.0	109.04	103.24	106.72	128.76	131.08
87.5	70.76	69.60	70.76	89.32	89.32
90.0	27.84	33.64	34.80	47.56	44.08
92.5	10.44	10.44	10.44	13.92	13.92
95.0	10.44	9.28	10.44	9.28	10.44
97.5	10.44	9.28	9.28	9.28	11.60
100.0	9.28	9.28	9.28	10.44	9.28
102.5	9.28	9.28	9.28	10.44	11.60
105.0	9.28	10.44	9.28	9.28	10.44
107.5	10.44	10.44	10.44	9.28	8.12
110.0	9.28	9.28	9.28	9.28	9.28
112.5	9.28	9.28	10.44	11.60	9.28
115.0	9.28	9.28	9.28	9.28	12.76
117.5	9.28	10.44	10.44	9.28	9.28
120.0	10.44	10.44	9.28	9.28	9.28
122.5	10.44	10.44	10.44	9.28	9.28
125.0	10.44	9.28	9.28	9.28	11.60
127.5	9.28	9.28	10.44	11.60	9.28
130.0	9.28	11.60	10.44	10.44	10.44
132.5	10.44	10.44	9.28	10.44	10.44

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CANDELA TABULATION - (Cont.)

135.0	9.28	10.44	10.44	10.44	10.44
137.5	11.60	11.60	9.28	11.60	11.60
140.0	10.44	10.44	10.44	10.44	9.28
142.5	9.28	11.60	10.44	9.28	12.76
145.0	11.60	10.44	11.60	10.44	12.76
147.5	9.28	11.60	10.44	10.44	11.60
150.0	11.60	10.44	11.60	10.44	10.44
152.5	12.76	11.60	10.44	11.60	10.44
155.0	9.28	10.44	11.60	11.60	11.60
157.5	12.76	12.76	10.44	11.60	10.44
160.0	11.60	11.60	12.76	11.60	12.76
162.5	12.76	12.76	11.60	11.60	11.60
165.0	11.60	12.76	12.76	12.76	10.44
167.5	11.60	12.76	11.60	10.44	11.60
170.0	12.76	11.60	12.76	11.60	10.44
172.5	10.44	11.60	11.60	11.60	10.44
175.0	10.44	10.44	10.44	11.60	11.60
177.5	10.44	11.60	11.60	10.44	11.60
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	773.43	N.A.	14.80
0-30	1647.96	N.A.	31.50
0-40	2680.48	N.A.	51.30
0-60	4369.22	N.A.	83.60
0-80	5036.75	N.A.	96.40
0-90	5157.58	N.A.	98.70
10-90	4958.52	N.A.	94.90
20-40	1907.05	N.A.	36.50
20-50	2882.61	N.A.	55.20
40-70	2111.63	N.A.	40.40
60-80	667.53	N.A.	12.80
70-80	244.63	N.A.	4.70
80-90	120.83	N.A.	2.30
90-110	25.33	N.A.	0.50
90-120	35.06	N.A.	0.70
90-130	44.03	N.A.	0.80
90-150	58.90	N.A.	1.10
90-180	68.62	N.A.	1.30
110-180	43.29	N.A.	0.80
0-180	5226.19	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	199.06
10-20	574.37
20-30	874.53
30-40	1032.53
40-50	975.56
50-60	713.18
60-70	422.90
70-80	244.63
80-90	120.83
90-100	15.05
100-110	10.28
110-120	9.73
120-130	8.97
130-140	8.11
140-150	6.76
150-160	5.24
160-170	3.40
170-180	1.08

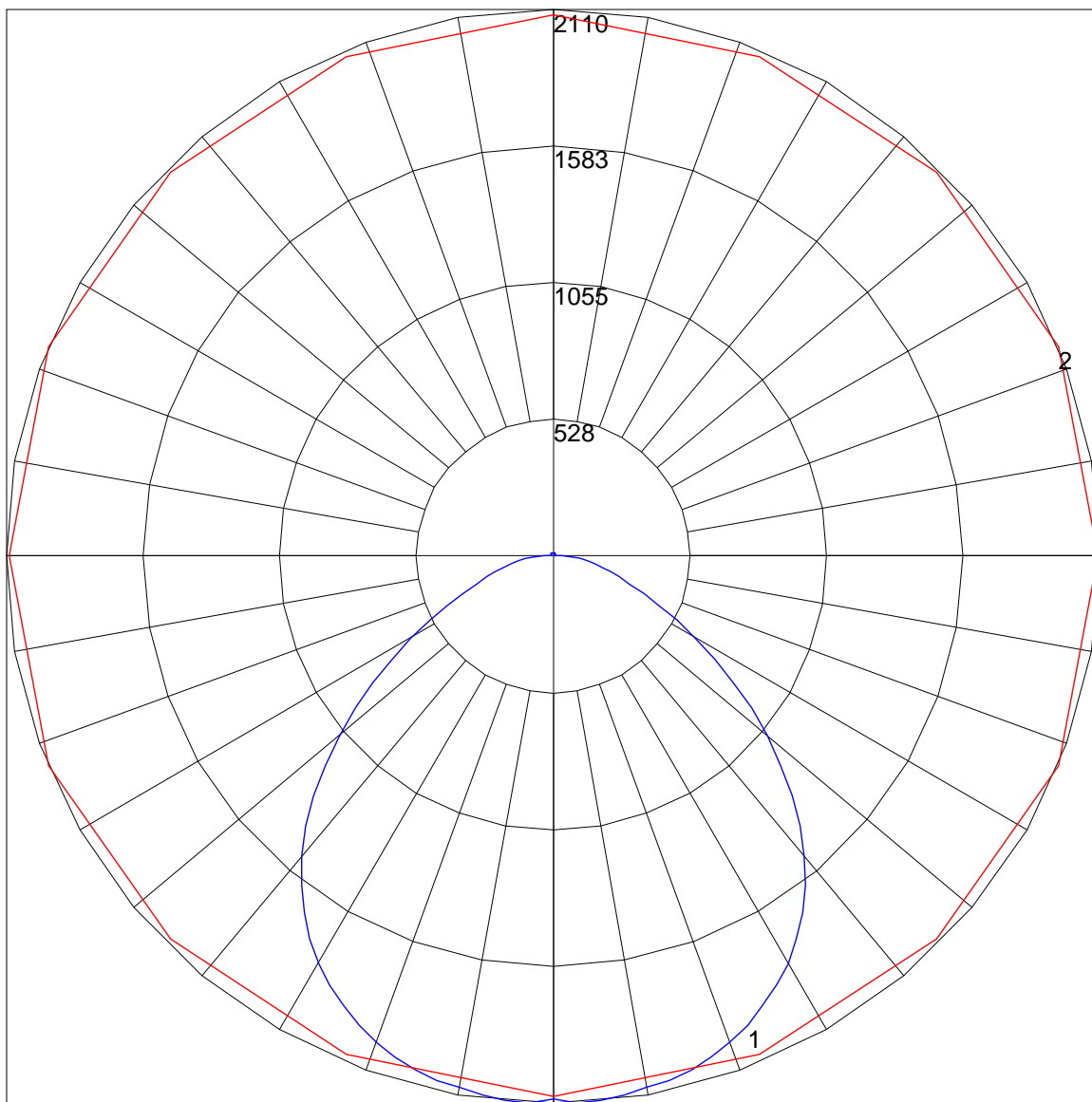
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	110	110	110	105	105	105	101	101	101	99
1	109	105	101	97	106	102	99	95	98	95	92	94	91	89	90	88	86	84
2	100	92	86	81	97	90	85	80	87	82	78	83	79	76	80	77	74	72
3	92	82	74	68	89	80	73	68	77	71	66	74	69	65	72	67	64	62
4	85	73	65	59	82	72	64	58	69	63	57	67	61	56	65	60	56	54
5	78	66	58	51	76	65	57	51	63	56	50	61	54	50	59	53	49	47
6	72	60	51	45	71	59	51	45	57	50	44	55	49	44	53	48	43	41
7	67	54	46	40	66	54	46	40	52	45	40	50	44	39	49	43	39	37
8	63	50	42	36	61	49	41	36	48	41	36	46	40	35	45	39	35	33
9	59	46	38	33	57	45	38	32	44	37	32	43	37	32	42	36	32	30
10	55	42	35	30	54	42	34	30	41	34	29	40	34	29	39	33	29	27

POLAR GRAPH



Maximum Candela = 2110.04 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.)