



IES INDOOR REPORT

PHOTOMETRIC FILENAME : GA24-LED-SS-CW-P12.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-4096A
[TESTLAB]LSI INDUSTRIES, INC
[ISSUE DATE]03/2/16
[TEST DATE]05/24/13
[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-CW-P12

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5892
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	134
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	2820	2748	2626
55	2265	2118	1859
65	1723	1373	1435
75	1470	1163	1578
85	1879	1861	2111

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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	2388.44	2388.44	2388.44	2388.44	2388.44
2.5	2398.88	2404.68	2387.28	2372.20	2379.16
5.0	2396.56	2394.24	2393.08	2372.20	2375.68
7.5	2394.24	2397.72	2384.96	2365.24	2367.56
10.0	2379.16	2378.00	2362.92	2354.80	2360.60
12.5	2359.44	2365.24	2350.16	2337.40	2344.36
15.0	2337.40	2340.88	2326.96	2315.36	2323.48
17.5	2308.40	2314.20	2302.60	2288.68	2291.00
20.0	2273.60	2280.56	2271.28	2255.04	2258.52
22.5	2231.84	2244.60	2229.52	2213.28	2213.28
25.0	2186.60	2194.72	2180.80	2163.40	2162.24
27.5	2133.24	2139.04	2122.80	2100.76	2099.60
30.0	2068.28	2076.40	2057.84	2033.48	2033.48
32.5	1995.20	1999.84	1978.96	1958.08	1952.28
35.0	1915.16	1917.48	1895.44	1868.76	1866.44
37.5	1823.52	1825.84	1802.64	1773.64	1769.00
40.0	1726.08	1721.44	1695.92	1661.12	1650.68
42.5	1613.56	1605.44	1572.96	1532.36	1524.24
45.0	1483.64	1476.68	1445.36	1400.12	1381.56
47.5	1358.36	1347.92	1310.80	1264.40	1240.04
50.0	1226.12	1215.68	1179.72	1124.04	1075.32
52.5	1095.04	1085.76	1041.68	970.92	923.36
55.0	966.28	959.32	903.64	828.24	793.44
57.5	856.08	841.00	769.08	716.88	690.20
60.0	745.88	712.24	642.64	607.84	593.92
62.5	633.36	600.88	527.80	509.24	513.88
65.0	541.72	499.96	431.52	432.68	451.24
67.5	457.04	414.12	351.48	373.52	403.68
70.0	385.12	344.52	291.16	328.28	366.56
72.5	328.28	292.32	248.24	293.48	335.24
75.0	283.04	251.72	223.88	264.48	303.92
77.5	248.24	219.24	208.80	237.80	271.44
80.0	209.96	189.08	187.92	211.12	232.00
82.5	169.36	157.76	158.92	177.48	186.76
85.0	121.80	121.80	120.64	136.88	136.88
87.5	74.24	78.88	74.24	87.00	85.84
90.0	19.72	32.48	33.64	40.60	38.28
92.5	4.64	6.96	5.80	5.80	13.92
95.0	0.00	2.32	0.00	4.64	0.00
97.5	0.00	3.48	5.80	2.32	13.92
100.0	5.80	3.48	4.64	4.64	0.00
102.5	8.12	3.48	3.48	3.48	5.80
105.0	0.00	2.32	4.64	3.48	5.80
107.5	3.48	4.64	3.48	3.48	3.48
110.0	5.80	5.80	2.32	0.00	4.64
112.5	0.00	2.32	3.48	0.00	2.32
115.0	0.00	5.80	2.32	3.48	3.48
117.5	0.00	3.48	2.32	3.48	4.64
120.0	10.44	3.48	3.48	10.44	0.00
122.5	1.16	2.32	5.80	4.64	11.60
125.0	0.00	4.64	2.32	5.80	5.80
127.5	0.00	2.32	3.48	4.64	5.80
130.0	4.64	2.32	5.80	6.96	5.80
132.5	3.48	4.64	3.48	2.32	9.28

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CANDELA TABULATION - (Cont.)

135.0	13.92	6.96	3.48	4.64	11.60
137.5	1.16	5.80	3.48	1.16	9.28
140.0	1.16	3.48	4.64	0.00	0.00
142.5	5.80	3.48	2.32	5.80	10.44
145.0	0.00	6.96	5.80	6.96	0.00
147.5	4.64	0.00	3.48	6.96	2.32
150.0	1.16	3.48	4.64	0.00	0.00
152.5	0.00	10.44	4.64	6.96	15.08
155.0	9.28	6.96	0.00	0.00	0.00
157.5	12.76	9.28	8.12	6.96	5.80
160.0	3.48	4.64	10.44	8.12	0.00
162.5	9.28	2.32	2.32	5.80	0.00
165.0	1.16	3.48	3.48	6.96	9.28
167.5	5.80	8.12	10.44	1.16	8.12
170.0	5.80	5.80	3.48	6.96	6.96
172.5	8.12	0.00	3.48	8.12	9.28
175.0	0.00	3.48	6.96	5.80	9.28
177.5	2.32	5.80	4.64	2.32	10.44
180.0	3.48	3.48	3.48	3.48	3.48

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	884.76	N.A.	15.00
0-30	1887.09	N.A.	32.00
0-40	3067.4	N.A.	52.10
0-60	4978.69	N.A.	84.50
0-80	5727.05	N.A.	97.20
0-90	5861.4	N.A.	99.50
10-90	5634.14	N.A.	95.60
20-40	2182.64	N.A.	37.00
20-50	3289.15	N.A.	55.80
40-70	2382.47	N.A.	40.40
60-80	748.35	N.A.	12.70
70-80	277.17	N.A.	4.70
80-90	134.35	N.A.	2.30
90-110	12.81	N.A.	0.20
90-120	15.89	N.A.	0.30
90-130	19.81	N.A.	0.30
90-150	25.90	N.A.	0.40
90-180	30.47	N.A.	0.50
110-180	17.66	N.A.	0.30
0-180	5891.87	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	227.26
10-20	657.51
20-30	1002.33
30-40	1180.31
40-50	1106.51
50-60	804.78
60-70	471.18
70-80	277.17
80-90	134.35
90-100	8.82
100-110	3.99
110-120	3.08
120-130	3.92
130-140	3.64
140-150	2.45
150-160	2.61
160-170	1.47
170-180	0.49

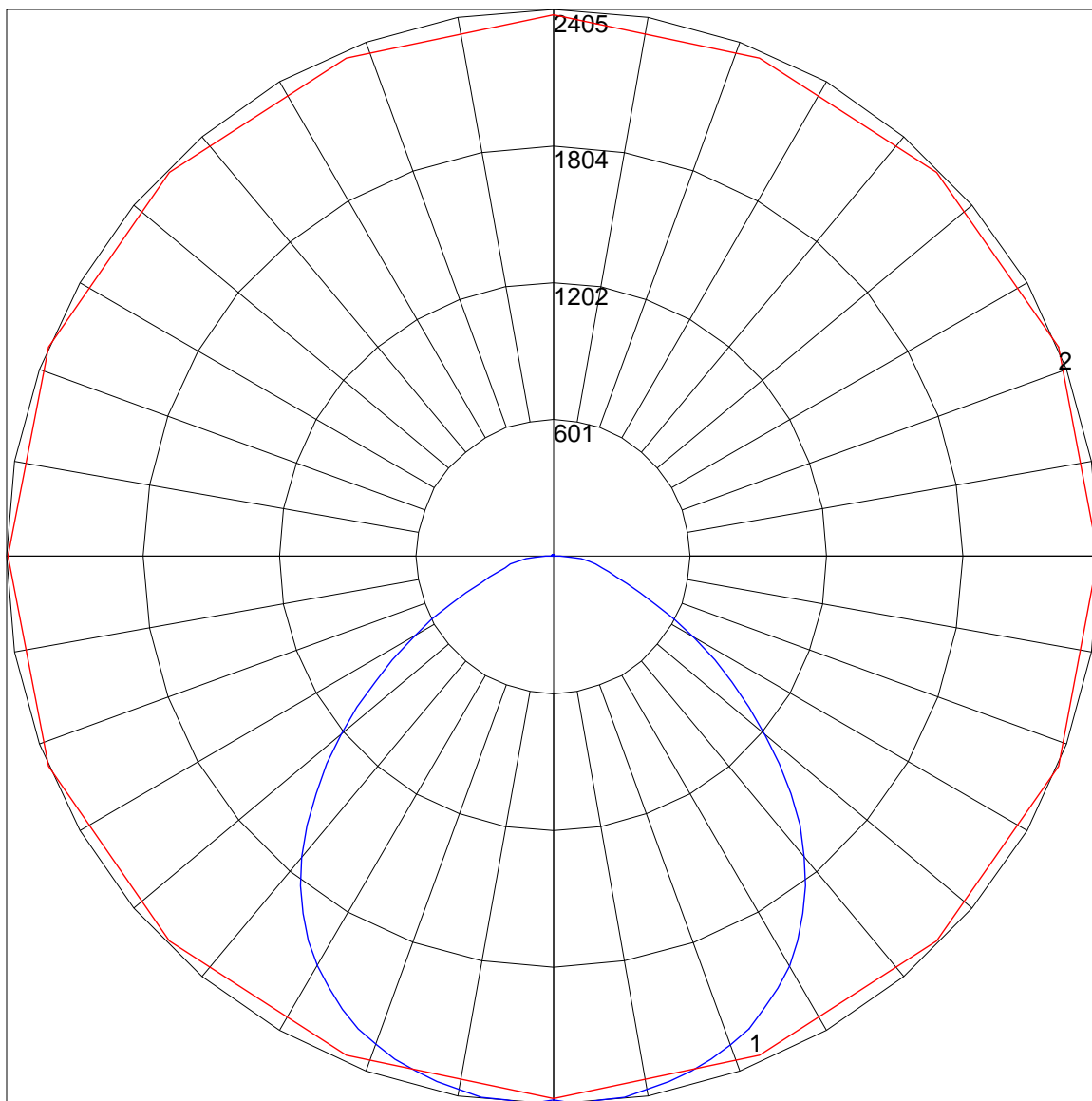
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	75	72
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	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	52	76	65	57	51	63	56	51	61	55	50	59	54	50	47
6	73	60	52	45	71	59	51	45	57	50	45	56	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	33	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 = 2404.68 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.)