



IES INDOOR REPORT
PHOTOMETRIC FILENAME : GA22-LED-SS-NW-P12.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-4198A
[TESTLAB]LSI INDUSTRIES, INC
[ISSUE DATE]02/29/16
[TEST DATE]06/20/13
[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]GA22-LED-SS-NW-P12

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3023
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	104
Total Luminaire Watts	29
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.30
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	2.00 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	2787	2774	2761
55	2175	2093	1908
65	1623	1402	1395
75	1337	1181	1398
85	1825	1753	2326

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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	1291.08	1291.08	1291.08	1291.08	1291.08
2.5	1286.44	1287.60	1292.24	1294.56	1296.88
5.0	1282.96	1285.28	1288.76	1292.24	1294.56
7.5	1276.00	1277.16	1281.80	1287.60	1289.92
10.0	1264.40	1267.88	1273.68	1278.32	1278.32
12.5	1250.48	1253.96	1259.76	1262.08	1266.72
15.0	1234.24	1236.56	1242.36	1249.32	1255.12
17.5	1213.36	1216.84	1222.64	1231.92	1236.56
20.0	1190.16	1193.64	1200.60	1209.88	1216.84
22.5	1162.32	1166.96	1175.08	1185.52	1191.32
25.0	1131.00	1134.48	1143.76	1154.20	1160.00
27.5	1099.68	1099.68	1110.12	1120.56	1128.68
30.0	1059.08	1062.56	1069.52	1082.28	1091.56
32.5	1016.16	1017.32	1026.60	1039.36	1050.96
35.0	968.60	970.92	979.04	990.64	1002.24
37.5	916.40	918.72	923.36	934.96	945.40
40.0	860.72	861.88	863.04	870.00	876.96
42.5	798.08	799.24	798.08	799.24	803.88
45.0	733.12	731.96	729.64	726.16	726.16
47.5	664.68	663.52	660.04	648.44	642.64
50.0	597.40	596.24	590.44	563.76	555.64
52.5	530.12	526.64	518.52	483.72	475.60
55.0	464.00	460.52	446.60	414.12	407.16
57.5	402.52	396.72	380.48	358.44	353.80
60.0	352.64	341.04	323.64	306.24	300.44
62.5	301.60	285.36	269.12	259.84	255.20
65.0	255.20	237.80	220.40	221.56	219.24
67.5	214.60	198.36	179.80	191.40	190.24
70.0	179.80	165.88	147.32	167.04	167.04
72.5	149.64	139.20	124.12	147.32	148.48
75.0	128.76	124.12	113.68	129.92	134.56
77.5	112.52	107.88	99.76	122.96	126.44
80.0	95.12	90.48	87.00	106.72	116.00
82.5	77.72	73.08	74.24	90.48	97.44
85.0	59.16	55.68	56.84	71.92	75.40
87.5	38.28	35.96	37.12	47.56	46.40
90.0	15.08	15.08	12.76	13.92	12.76
92.5	3.48	2.32	3.48	3.48	2.32
95.0	2.32	2.32	3.48	2.32	2.32
97.5	3.48	2.32	2.32	2.32	2.32
100.0	3.48	2.32	2.32	3.48	2.32
102.5	2.32	3.48	3.48	3.48	3.48
105.0	3.48	3.48	2.32	3.48	2.32
107.5	3.48	3.48	3.48	2.32	2.32
110.0	3.48	3.48	3.48	3.48	2.32
112.5	3.48	3.48	3.48	3.48	3.48
115.0	3.48	3.48	3.48	3.48	3.48
117.5	3.48	3.48	3.48	3.48	3.48
120.0	3.48	3.48	2.32	3.48	2.32
122.5	3.48	3.48	3.48	3.48	3.48
125.0	3.48	3.48	3.48	3.48	3.48
127.5	3.48	3.48	3.48	3.48	3.48
130.0	3.48	3.48	3.48	3.48	3.48
132.5	4.64	3.48	3.48	3.48	3.48

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CANDELA TABULATION - (Cont.)

135.0	3.48	3.48	3.48	3.48	3.48
137.5	4.64	4.64	3.48	3.48	3.48
140.0	4.64	4.64	3.48	3.48	3.48
142.5	3.48	4.64	3.48	3.48	3.48
145.0	3.48	3.48	3.48	3.48	3.48
147.5	4.64	3.48	4.64	4.64	4.64
150.0	3.48	3.48	3.48	3.48	3.48
152.5	4.64	3.48	3.48	3.48	3.48
155.0	4.64	4.64	4.64	4.64	3.48
157.5	4.64	4.64	4.64	4.64	4.64
160.0	4.64	4.64	4.64	4.64	4.64
162.5	4.64	4.64	4.64	4.64	3.48
165.0	3.48	4.64	4.64	4.64	3.48
167.5	4.64	4.64	4.64	4.64	3.48
170.0	4.64	4.64	4.64	4.64	4.64
172.5	4.64	4.64	4.64	4.64	4.64
175.0	4.64	3.48	4.64	4.64	3.48
177.5	3.48	4.64	4.64	4.64	4.64
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	473.22	N.A.	15.70
0-30	1000.16	N.A.	33.10
0-40	1611.21	N.A.	53.30
0-60	2568.14	N.A.	85.00
0-80	2934.25	N.A.	97.10
0-90	2999.8	N.A.	99.20
10-90	2877.3	N.A.	95.20
20-40	1138.00	N.A.	37.60
20-50	1698.2	N.A.	56.20
40-70	1189.00	N.A.	39.30
60-80	366.12	N.A.	12.10
70-80	134.04	N.A.	4.40
80-90	65.55	N.A.	2.20
90-110	7.79	N.A.	0.30
90-120	11.18	N.A.	0.40
90-130	14.25	N.A.	0.50
90-150	19.49	N.A.	0.60
90-180	23.12	N.A.	0.80
110-180	15.33	N.A.	0.50
0-180	3022.92	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	122.50
10-20	350.72
20-30	526.94
30-40	611.06
40-50	560.20
50-60	396.72
60-70	232.08
70-80	134.04
80-90	65.55
90-100	4.50
100-110	3.30
110-120	3.38
120-130	3.07
130-140	2.84
140-150	2.40
150-160	1.93
160-170	1.27
170-180	0.43

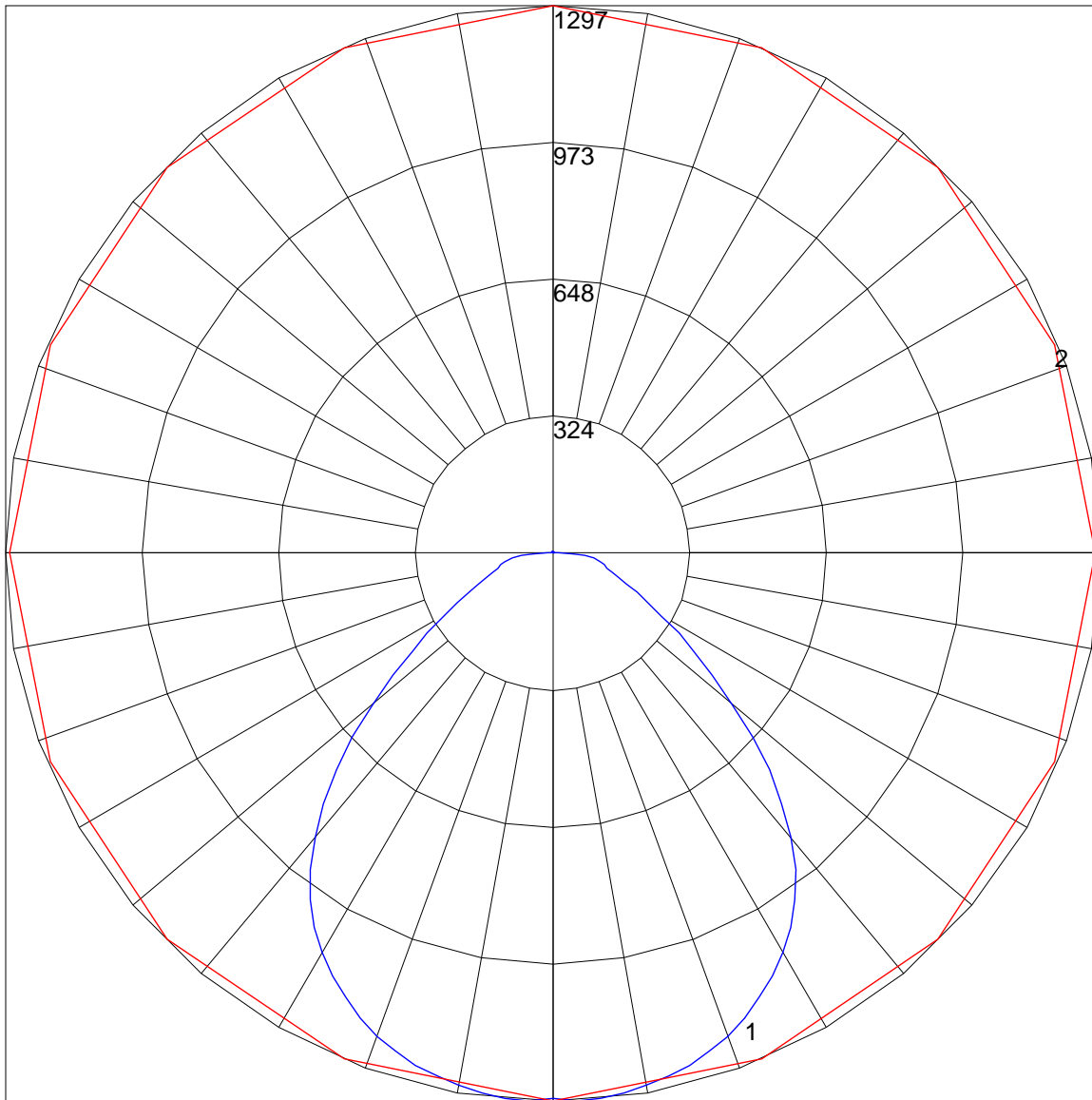
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	101	93	87	82	98	91	85	81	88	83	79	84	80	77	81	78	75	73
3	93	83	75	69	90	81	74	69	78	72	67	75	70	66	73	69	65	63
4	85	74	66	60	83	73	65	59	70	64	59	68	62	58	66	61	57	55
5	79	67	58	52	77	66	58	52	64	57	51	62	56	51	60	54	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	66	54	47	41	53	46	41	51	45	40	50	44	40	38
8	64	51	43	37	62	50	42	37	49	42	37	47	41	36	46	40	36	34
9	59	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	30	42	35	30	41	35	30	40	34	30	28

POLAR GRAPH



Maximum Candela = 1296.88 Located At Horizontal Angle = 90, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)