

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00729 ~ PN1411GV-45L35K-EX-FJ2.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00729

[TESTLAB] Spectrum Lighting Photometric Lab, VLS-245-981

[MANUFAC] Spectrum Lighting

[ISSUE DATE] 9/18/2018

[UPDATE] 11/2/2018

[LUMCAT] PN1411GV-45L35K-EX-FJ2

[LUMINAIRE] Nom. 14" Diam x 10.8" H, Nautical Series RLM luminaire

[OTHER] Tapered spun aluminum shade, Matte White interior finish

[OTHER] 4" diam, inside frosted jar

[OTHER] 64.4 Degree Beam Angle

[OTHER] 88% Downlight; 12% Uplight

[LAMPCAT] N/A

[LAMP] N/A, Gen 3

[OTHER] Total Luminaire Watts is approximate

[_CCTMULT] 40K x 1.03, 30K x 0.985, 27K x 0.971

[_CRI] 80+

[_LAMPMULT] 15L x 0.322, 27L x 0.564, 37L x 0.826

[OTHER] This report generated by Spectrum Lighting, scaled from 55L

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1849
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	62
Total Luminaire Watts	30
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	0.82
Spacing Criterion (90-270)	0.82
Spacing Criterion (Diagonal)	1.04
Basic Luminous Shape	Circular w/ Sides
Luminous Length (0-180)	1.17 ft (Diameter)
Luminous Width (90-270)	1.17 ft (Diameter)
Luminous Height	0.25 ft

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LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3391	3391	3391
55	3080	3080	3080
65	3261	3261	3261
75	3406	3406	3406
85	3063	3063	3063

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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>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>	<u>202.5</u>
0.0	749.113	749.113	749.113	749.113	749.113	749.113	749.113	749.113	749.113	749.113
2.5	749.113	749.113	749.113	749.113	749.113	749.113	749.113	749.113	749.113	749.113
5.0	723.739	723.739	723.739	723.739	723.739	723.739	723.739	723.739	723.739	723.739
7.5	696.929	696.929	696.929	696.929	696.929	696.929	696.929	696.929	696.929	696.929
10.0	655.117	655.117	655.117	655.117	655.117	655.117	655.117	655.117	655.117	655.117
12.5	613.255	613.255	613.255	613.255	613.255	613.255	613.255	613.255	613.255	613.255
15.0	571.431	571.431	571.431	571.431	571.431	571.431	571.431	571.431	571.431	571.431
17.5	530.284	530.284	530.284	530.284	530.284	530.284	530.284	530.284	530.284	530.284
20.0	495.787	495.787	495.787	495.787	495.787	495.787	495.787	495.787	495.787	495.787
22.5	462.450	462.450	462.450	462.450	462.450	462.450	462.450	462.450	462.450	462.450
25.0	436.035	436.035	436.035	436.035	436.035	436.035	436.035	436.035	436.035	436.035
27.5	410.804	410.804	410.804	410.804	410.804	410.804	410.804	410.804	410.804	410.804
30.0	390.542	390.542	390.542	390.542	390.542	390.542	390.542	390.542	390.542	390.542
32.5	371.653	371.653	371.653	371.653	371.653	371.653	371.653	371.653	371.653	371.653
35.0	357.135	357.135	357.135	357.135	357.135	357.135	357.135	357.135	357.135	357.135
37.5	343.111	343.111	343.111	343.111	343.111	343.111	343.111	343.111	343.111	343.111
40.0	330.291	330.291	330.291	330.291	330.291	330.291	330.291	330.291	330.291	330.291
42.5	317.547	317.547	317.547	317.547	317.547	317.547	317.547	317.547	317.547	317.547
45.0	304.951	304.951	304.951	304.951	304.951	304.951	304.951	304.951	304.951	304.951
47.5	291.422	291.422	291.422	291.422	291.422	291.422	291.422	291.422	291.422	291.422
50.0	276.412	276.412	276.412	276.412	276.412	276.412	276.412	276.412	276.412	276.412
52.5	261.060	261.060	261.060	261.060	261.060	261.060	261.060	261.060	261.060	261.060
55.0	245.267	245.267	245.267	245.267	245.267	245.267	245.267	245.267	245.267	245.267
57.5	232.509	232.509	232.509	232.509	232.509	232.509	232.509	232.509	232.509	232.509
60.0	222.988	222.988	222.988	222.988	222.988	222.988	222.988	222.988	222.988	222.988
62.5	218.416	218.416	218.416	218.416	218.416	218.416	218.416	218.416	218.416	218.416
65.0	218.180	218.180	218.180	218.180	218.180	218.180	218.180	218.180	218.180	218.180
67.5	214.848	214.848	214.848	214.848	214.848	214.848	214.848	214.848	214.848	214.848
70.0	209.317	209.317	209.317	209.317	209.317	209.317	209.317	209.317	209.317	209.317
72.5	195.819	195.819	195.819	195.819	195.819	195.819	195.819	195.819	195.819	195.819
75.0	177.643	177.643	177.643	177.643	177.643	177.643	177.643	177.643	177.643	177.643
77.5	159.491	159.491	159.491	159.491	159.491	159.491	159.491	159.491	159.491	159.491
80.0	141.352	141.352	141.352	141.352	141.352	141.352	141.352	141.352	141.352	141.352
82.5	125.161	125.161	125.161	125.161	125.161	125.161	125.161	125.161	125.161	125.161
85.0	109.688	109.688	109.688	109.688	109.688	109.688	109.688	109.688	109.688	109.688
87.5	95.755	95.755	95.755	95.755	95.755	95.755	95.755	95.755	95.755	95.755
90.0	82.264	82.264	82.264	82.264	82.264	82.264	82.264	82.264	82.264	82.264
92.5	77.368	77.368	77.368	77.368	77.368	77.368	77.368	77.368	77.368	77.368
95.0	74.272	74.272	74.272	74.272	74.272	74.272	74.272	74.272	74.272	74.272
97.5	73.832	73.832	73.832	73.832	73.832	73.832	73.832	73.832	73.832	73.832
100.0	73.768	73.768	73.768	73.768	73.768	73.768	73.768	73.768	73.768	73.768
102.5	71.855	71.855	71.855	71.855	71.855	71.855	71.855	71.855	71.855	71.855
105.0	69.790	69.790	69.790	69.790	69.790	69.790	69.790	69.790	69.790	69.790
107.5	65.980	65.980	65.980	65.980	65.980	65.980	65.980	65.980	65.980	65.980
110.0	62.021	62.021	62.021	62.021	62.021	62.021	62.021	62.021	62.021	62.021
112.5	53.679	53.679	53.679	53.679	53.679	53.679	53.679	53.679	53.679	53.679
115.0	45.157	45.157	45.157	45.157	45.157	45.157	45.157	45.157	45.157	45.157
117.5	34.219	34.219	34.219	34.219	34.219	34.219	34.219	34.219	34.219	34.219
120.0	23.909	23.909	23.909	23.909	23.909	23.909	23.909	23.909	23.909	23.909
122.5	18.157	18.157	18.157	18.157	18.157	18.157	18.157	18.157	18.157	18.157
125.0	12.857	12.857	12.857	12.857	12.857	12.857	12.857	12.857	12.857	12.857

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CANDELA TABULATION - (Cont.)

127.5	9.761	9.761	9.761	9.761	9.761	9.761	9.761	9.761	9.761	9.761
130.0	6.903	6.903	6.903	6.903	6.903	6.903	6.903	6.903	6.903	6.903
132.5	4.905	4.905	4.905	4.905	4.905	4.905	4.905	4.905	4.905	4.905
135.0	3.190	3.190	3.190	3.190	3.190	3.190	3.190	3.190	3.190	3.190
137.5	2.248	2.248	2.248	2.248	2.248	2.248	2.248	2.248	2.248	2.248
140.0	1.507	1.507	1.507	1.507	1.507	1.507	1.507	1.507	1.507	1.507
142.5	1.202	1.202	1.202	1.202	1.202	1.202	1.202	1.202	1.202	1.202
145.0	0.973	0.973	0.973	0.973	0.973	0.973	0.973	0.973	0.973	0.973
147.5	0.875	0.875	0.875	0.875	0.875	0.875	0.875	0.875	0.875	0.875
150.0	0.837	0.837	0.837	0.837	0.837	0.837	0.837	0.837	0.837	0.837
152.5	0.882	0.882	0.882	0.882	0.882	0.882	0.882	0.882	0.882	0.882
155.0	0.918	0.918	0.918	0.918	0.918	0.918	0.918	0.918	0.918	0.918
157.5	0.945	0.945	0.945	0.945	0.945	0.945	0.945	0.945	0.945	0.945
160.0	0.926	0.926	0.926	0.926	0.926	0.926	0.926	0.926	0.926	0.926
162.5	0.880	0.880	0.880	0.880	0.880	0.880	0.880	0.880	0.880	0.880
165.0	0.855	0.855	0.855	0.855	0.855	0.855	0.855	0.855	0.855	0.855
167.5	0.800	0.800	0.800	0.800	0.800	0.800	0.800	0.800	0.800	0.800
170.0	0.729	0.729	0.729	0.729	0.729	0.729	0.729	0.729	0.729	0.729
172.5	0.888	0.888	0.888	0.888	0.888	0.888	0.888	0.888	0.888	0.888
175.0	0.875	0.875	0.875	0.875	0.875	0.875	0.875	0.875	0.875	0.875
177.5	0.893	0.893	0.893	0.893	0.893	0.893	0.893	0.893	0.893	0.893
180.0	0.801	0.801	0.801	0.801	0.801	0.801	0.801	0.801	0.801	0.801

Vert. Horizontal Angles

	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0.0	749.113	749.113	749.113	749.113	749.113	749.113	749.113
2.5	749.113	749.113	749.113	749.113	749.113	749.113	749.113
5.0	723.739	723.739	723.739	723.739	723.739	723.739	723.739
7.5	696.929	696.929	696.929	696.929	696.929	696.929	696.929
10.0	655.117	655.117	655.117	655.117	655.117	655.117	655.117
12.5	613.255	613.255	613.255	613.255	613.255	613.255	613.255
15.0	571.431	571.431	571.431	571.431	571.431	571.431	571.431
17.5	530.284	530.284	530.284	530.284	530.284	530.284	530.284
20.0	495.787	495.787	495.787	495.787	495.787	495.787	495.787
22.5	462.450	462.450	462.450	462.450	462.450	462.450	462.450
25.0	436.035	436.035	436.035	436.035	436.035	436.035	436.035
27.5	410.804	410.804	410.804	410.804	410.804	410.804	410.804
30.0	390.542	390.542	390.542	390.542	390.542	390.542	390.542
32.5	371.653	371.653	371.653	371.653	371.653	371.653	371.653
35.0	357.135	357.135	357.135	357.135	357.135	357.135	357.135
37.5	343.111	343.111	343.111	343.111	343.111	343.111	343.111
40.0	330.291	330.291	330.291	330.291	330.291	330.291	330.291
42.5	317.547	317.547	317.547	317.547	317.547	317.547	317.547
45.0	304.951	304.951	304.951	304.951	304.951	304.951	304.951
47.5	291.422	291.422	291.422	291.422	291.422	291.422	291.422
50.0	276.412	276.412	276.412	276.412	276.412	276.412	276.412
52.5	261.060	261.060	261.060	261.060	261.060	261.060	261.060
55.0	245.267	245.267	245.267	245.267	245.267	245.267	245.267
57.5	232.509	232.509	232.509	232.509	232.509	232.509	232.509
60.0	222.988	222.988	222.988	222.988	222.988	222.988	222.988
62.5	218.416	218.416	218.416	218.416	218.416	218.416	218.416
65.0	218.180	218.180	218.180	218.180	218.180	218.180	218.180

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CANDELA TABULATION - (Cont.)

67.5	214.848	214.848	214.848	214.848	214.848	214.848	214.848
70.0	209.317	209.317	209.317	209.317	209.317	209.317	209.317
72.5	195.819	195.819	195.819	195.819	195.819	195.819	195.819
75.0	177.643	177.643	177.643	177.643	177.643	177.643	177.643
77.5	159.491	159.491	159.491	159.491	159.491	159.491	159.491
80.0	141.352	141.352	141.352	141.352	141.352	141.352	141.352
82.5	125.161	125.161	125.161	125.161	125.161	125.161	125.161
85.0	109.688	109.688	109.688	109.688	109.688	109.688	109.688
87.5	95.755	95.755	95.755	95.755	95.755	95.755	95.755
90.0	82.264	82.264	82.264	82.264	82.264	82.264	82.264
92.5	77.368	77.368	77.368	77.368	77.368	77.368	77.368
95.0	74.272	74.272	74.272	74.272	74.272	74.272	74.272
97.5	73.832	73.832	73.832	73.832	73.832	73.832	73.832
100.0	73.768	73.768	73.768	73.768	73.768	73.768	73.768
102.5	71.855	71.855	71.855	71.855	71.855	71.855	71.855
105.0	69.790	69.790	69.790	69.790	69.790	69.790	69.790
107.5	65.980	65.980	65.980	65.980	65.980	65.980	65.980
110.0	62.021	62.021	62.021	62.021	62.021	62.021	62.021
112.5	53.679	53.679	53.679	53.679	53.679	53.679	53.679
115.0	45.157	45.157	45.157	45.157	45.157	45.157	45.157
117.5	34.219	34.219	34.219	34.219	34.219	34.219	34.219
120.0	23.909	23.909	23.909	23.909	23.909	23.909	23.909
122.5	18.157	18.157	18.157	18.157	18.157	18.157	18.157
125.0	12.857	12.857	12.857	12.857	12.857	12.857	12.857
127.5	9.761	9.761	9.761	9.761	9.761	9.761	9.761
130.0	6.903	6.903	6.903	6.903	6.903	6.903	6.903
132.5	4.905	4.905	4.905	4.905	4.905	4.905	4.905
135.0	3.190	3.190	3.190	3.190	3.190	3.190	3.190
137.5	2.248	2.248	2.248	2.248	2.248	2.248	2.248
140.0	1.507	1.507	1.507	1.507	1.507	1.507	1.507
142.5	1.202	1.202	1.202	1.202	1.202	1.202	1.202
145.0	0.973	0.973	0.973	0.973	0.973	0.973	0.973
147.5	0.875	0.875	0.875	0.875	0.875	0.875	0.875
150.0	0.837	0.837	0.837	0.837	0.837	0.837	0.837
152.5	0.882	0.882	0.882	0.882	0.882	0.882	0.882
155.0	0.918	0.918	0.918	0.918	0.918	0.918	0.918
157.5	0.945	0.945	0.945	0.945	0.945	0.945	0.945
160.0	0.926	0.926	0.926	0.926	0.926	0.926	0.926
162.5	0.880	0.880	0.880	0.880	0.880	0.880	0.880
165.0	0.855	0.855	0.855	0.855	0.855	0.855	0.855
167.5	0.800	0.800	0.800	0.800	0.800	0.800	0.800
170.0	0.729	0.729	0.729	0.729	0.729	0.729	0.729
172.5	0.888	0.888	0.888	0.888	0.888	0.888	0.888
175.0	0.875	0.875	0.875	0.875	0.875	0.875	0.875
177.5	0.893	0.893	0.893	0.893	0.893	0.893	0.893
180.0	0.801	0.801	0.801	0.801	0.801	0.801	0.801

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	227.05	N.A.	12.30
0-30	428.42	N.A.	23.20
0-40	652.65	N.A.	35.30
0-60	1109.01	N.A.	60.00
0-80	1511.29	N.A.	81.80
0-90	1631.89	N.A.	88.30
10-90	1564.82	N.A.	84.70
20-40	425.59	N.A.	23.00
20-50	660.71	N.A.	35.70
40-70	671.59	N.A.	36.30
60-80	402.29	N.A.	21.80
70-80	187.06	N.A.	10.10
80-90	120.60	N.A.	6.50
90-110	155.71	N.A.	8.40
90-120	199.63	N.A.	10.80
90-130	212.37	N.A.	11.50
90-150	215.92	N.A.	11.70
90-180	216.66	N.A.	11.70
110-180	60.95	N.A.	3.30
0-180	1848.55	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	67.07
10-20	159.98
20-30	201.37
30-40	224.22
40-50	235.12
50-60	221.25
60-70	215.23
70-80	187.06
80-90	120.60
90-100	82.79
100-110	72.91
110-120	43.92
120-130	12.75
130-140	2.87
140-150	0.67
150-160	0.42
160-170	0.24
170-180	0.08

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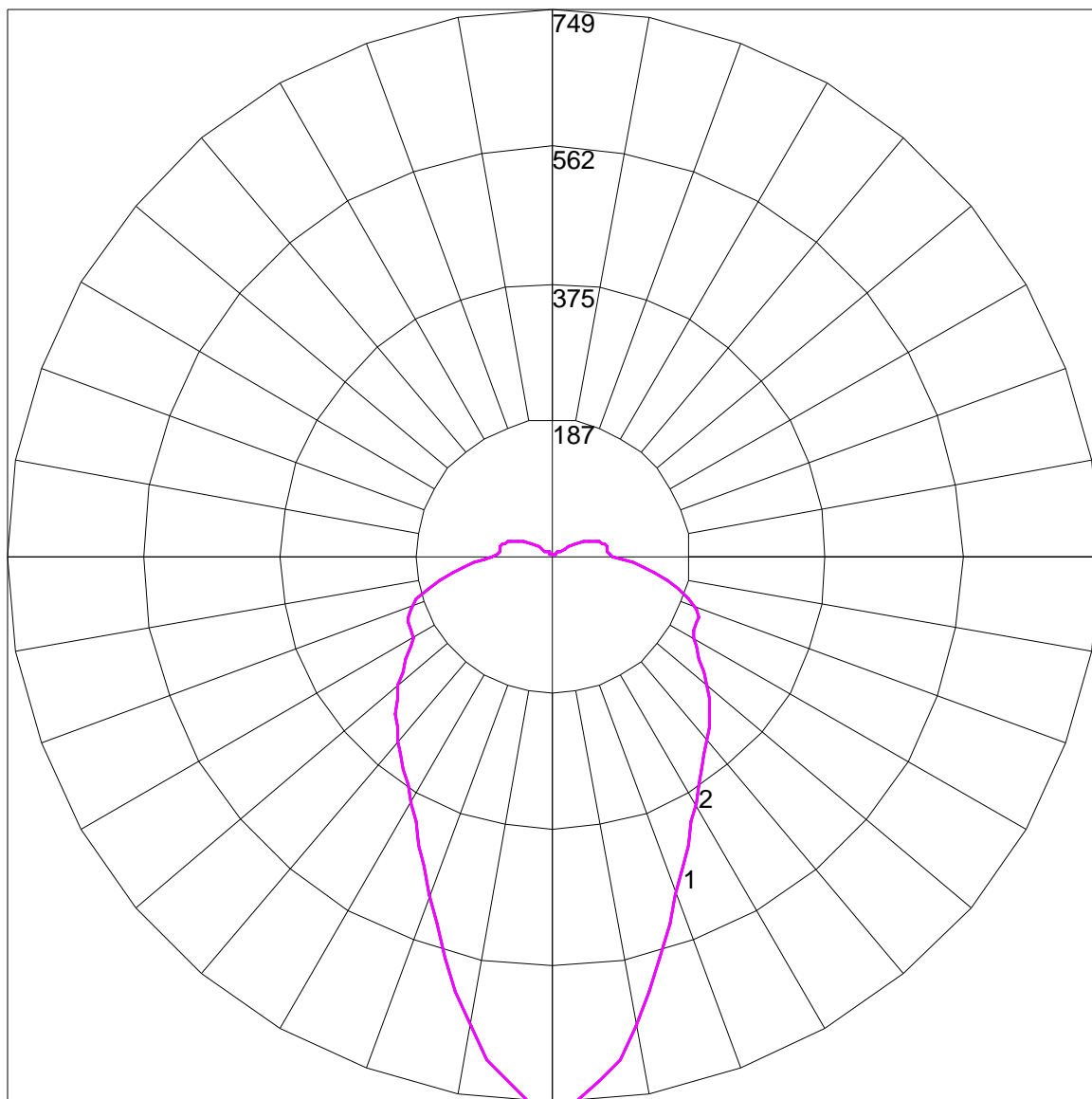
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	116	116	116	116	112	112	112	112	105	105	105	98	98	98	91	91	91	88
1	104	98	93	88	100	94	90	85	88	84	81	82	79	76	76	74	72	69
2	93	84	77	70	90	81	74	68	76	70	65	71	66	62	66	62	59	56
3	85	73	65	58	81	71	63	56	66	59	54	62	56	51	58	53	49	46
4	78	65	56	49	74	63	54	48	59	52	46	55	49	44	52	46	42	39
5	71	58	49	42	68	56	48	41	53	45	40	50	43	38	47	41	37	34
6	66	52	43	37	63	51	42	36	48	40	35	45	39	34	42	37	32	30
7	61	48	39	33	59	46	38	32	44	36	31	41	35	30	39	33	29	27
8	57	44	35	29	55	42	34	29	40	33	28	38	32	27	36	30	26	24
9	54	40	32	26	52	39	31	26	37	30	25	35	29	24	33	28	24	22
10	50	37	29	24	48	36	29	24	34	28	23	33	27	22	31	26	22	20

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00729 ~ PN1411GV-45L35K-EX-FJ2.IES

POLAR GRAPH



Maximum Candela = 749.113 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Vertical Plane Through Horizontal Angles (0 - 180)