

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00728 ~ PL1411GV-27L35K-EX-FJ2.IES
DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] SP-00728_M-27L
 [TESTLAB] Spectrum Lighting Photometric Lab, VLS-245-981
 [MANUFAC] Spectrum Lighting
 [ISSUEDATE] 9/18/2018
 [UPDATE] 11/8/2018
 [LUMCAT] PL1411GV-27L35K-EX-FJ2
 [LUMINARE] Nom. 14" Diam x 11.7" 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	1109
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	62
Total Luminaire Watts	18
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	2034	2034	2034
55	1847	1847	1847
65	1956	1956	1956
75	2043	2043	2043
85	1837	1837	1837

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00728 ~ PL1411GV-27L35K-EX-FJ2.IES

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	449.273	449.273	449.273	449.273	449.273	449.273	449.273	449.273	449.273	449.273
2.5	449.273	449.273	449.273	449.273	449.273	449.273	449.273	449.273	449.273	449.273
5.0	434.056	434.056	434.056	434.056	434.056	434.056	434.056	434.056	434.056	434.056
7.5	417.977	417.977	417.977	417.977	417.977	417.977	417.977	417.977	417.977	417.977
10.0	392.900	392.900	392.900	392.900	392.900	392.900	392.900	392.900	392.900	392.900
12.5	367.794	367.794	367.794	367.794	367.794	367.794	367.794	367.794	367.794	367.794
15.0	342.711	342.711	342.711	342.711	342.711	342.711	342.711	342.711	342.711	342.711
17.5	318.033	318.033	318.033	318.033	318.033	318.033	318.033	318.033	318.033	318.033
20.0	297.344	297.344	297.344	297.344	297.344	297.344	297.344	297.344	297.344	297.344
22.5	277.350	277.350	277.350	277.350	277.350	277.350	277.350	277.350	277.350	277.350
25.0	261.508	261.508	261.508	261.508	261.508	261.508	261.508	261.508	261.508	261.508
27.5	246.376	246.376	246.376	246.376	246.376	246.376	246.376	246.376	246.376	246.376
30.0	234.224	234.224	234.224	234.224	234.224	234.224	234.224	234.224	234.224	234.224
32.5	222.896	222.896	222.896	222.896	222.896	222.896	222.896	222.896	222.896	222.896
35.0	214.188	214.188	214.188	214.188	214.188	214.188	214.188	214.188	214.188	214.188
37.5	205.778	205.778	205.778	205.778	205.778	205.778	205.778	205.778	205.778	205.778
40.0	198.089	198.089	198.089	198.089	198.089	198.089	198.089	198.089	198.089	198.089
42.5	190.446	190.446	190.446	190.446	190.446	190.446	190.446	190.446	190.446	190.446
45.0	182.891	182.891	182.891	182.891	182.891	182.891	182.891	182.891	182.891	182.891
47.5	174.778	174.778	174.778	174.778	174.778	174.778	174.778	174.778	174.778	174.778
50.0	165.776	165.776	165.776	165.776	165.776	165.776	165.776	165.776	165.776	165.776
52.5	156.569	156.569	156.569	156.569	156.569	156.569	156.569	156.569	156.569	156.569
55.0	147.096	147.096	147.096	147.096	147.096	147.096	147.096	147.096	147.096	147.096
57.5	139.445	139.445	139.445	139.445	139.445	139.445	139.445	139.445	139.445	139.445
60.0	133.735	133.735	133.735	133.735	133.735	133.735	133.735	133.735	133.735	133.735
62.5	130.993	130.993	130.993	130.993	130.993	130.993	130.993	130.993	130.993	130.993
65.0	130.851	130.851	130.851	130.851	130.851	130.851	130.851	130.851	130.851	130.851
67.5	128.853	128.853	128.853	128.853	128.853	128.853	128.853	128.853	128.853	128.853
70.0	125.536	125.536	125.536	125.536	125.536	125.536	125.536	125.536	125.536	125.536
72.5	117.441	117.441	117.441	117.441	117.441	117.441	117.441	117.441	117.441	117.441
75.0	106.540	106.540	106.540	106.540	106.540	106.540	106.540	106.540	106.540	106.540
77.5	95.653	95.653	95.653	95.653	95.653	95.653	95.653	95.653	95.653	95.653
80.0	84.774	84.774	84.774	84.774	84.774	84.774	84.774	84.774	84.774	84.774
82.5	75.064	75.064	75.064	75.064	75.064	75.064	75.064	75.064	75.064	75.064
85.0	65.784	65.784	65.784	65.784	65.784	65.784	65.784	65.784	65.784	65.784
87.5	57.428	57.428	57.428	57.428	57.428	57.428	57.428	57.428	57.428	57.428
90.0	49.337	49.337	49.337	49.337	49.337	49.337	49.337	49.337	49.337	49.337
92.5	46.401	46.401	46.401	46.401	46.401	46.401	46.401	46.401	46.401	46.401
95.0	44.544	44.544	44.544	44.544	44.544	44.544	44.544	44.544	44.544	44.544
97.5	44.280	44.280	44.280	44.280	44.280	44.280	44.280	44.280	44.280	44.280
100.0	44.242	44.242	44.242	44.242	44.242	44.242	44.242	44.242	44.242	44.242
102.5	43.095	43.095	43.095	43.095	43.095	43.095	43.095	43.095	43.095	43.095
105.0	41.856	41.856	41.856	41.856	41.856	41.856	41.856	41.856	41.856	41.856
107.5	39.571	39.571	39.571	39.571	39.571	39.571	39.571	39.571	39.571	39.571
110.0	37.196	37.196	37.196	37.196	37.196	37.196	37.196	37.196	37.196	37.196
112.5	32.194	32.194	32.194	32.194	32.194	32.194	32.194	32.194	32.194	32.194
115.0	27.082	27.082	27.082	27.082	27.082	27.082	27.082	27.082	27.082	27.082
117.5	20.522	20.522	20.522	20.522	20.522	20.522	20.522	20.522	20.522	20.522
120.0	14.339	14.339	14.339	14.339	14.339	14.339	14.339	14.339	14.339	14.339
122.5	10.890	10.890	10.890	10.890	10.890	10.890	10.890	10.890	10.890	10.890
125.0	7.711	7.711	7.711	7.711	7.711	7.711	7.711	7.711	7.711	7.711

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CANDELA TABULATION - (Cont.)

127.5	5.854	5.854	5.854	5.854	5.854	5.854	5.854	5.854	5.854	5.854
130.0	4.140	4.140	4.140	4.140	4.140	4.140	4.140	4.140	4.140	4.140
132.5	2.942	2.942	2.942	2.942	2.942	2.942	2.942	2.942	2.942	2.942
135.0	1.913	1.913	1.913	1.913	1.913	1.913	1.913	1.913	1.913	1.913
137.5	1.348	1.348	1.348	1.348	1.348	1.348	1.348	1.348	1.348	1.348
140.0	0.904	0.904	0.904	0.904	0.904	0.904	0.904	0.904	0.904	0.904
142.5	0.721	0.721	0.721	0.721	0.721	0.721	0.721	0.721	0.721	0.721
145.0	0.583	0.583	0.583	0.583	0.583	0.583	0.583	0.583	0.583	0.583
147.5	0.525	0.525	0.525	0.525	0.525	0.525	0.525	0.525	0.525	0.525
150.0	0.502	0.502	0.502	0.502	0.502	0.502	0.502	0.502	0.502	0.502
152.5	0.529	0.529	0.529	0.529	0.529	0.529	0.529	0.529	0.529	0.529
155.0	0.551	0.551	0.551	0.551	0.551	0.551	0.551	0.551	0.551	0.551
157.5	0.567	0.567	0.567	0.567	0.567	0.567	0.567	0.567	0.567	0.567
160.0	0.556	0.556	0.556	0.556	0.556	0.556	0.556	0.556	0.556	0.556
162.5	0.528	0.528	0.528	0.528	0.528	0.528	0.528	0.528	0.528	0.528
165.0	0.513	0.513	0.513	0.513	0.513	0.513	0.513	0.513	0.513	0.513
167.5	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
170.0	0.437	0.437	0.437	0.437	0.437	0.437	0.437	0.437	0.437	0.437
172.5	0.532	0.532	0.532	0.532	0.532	0.532	0.532	0.532	0.532	0.532
175.0	0.525	0.525	0.525	0.525	0.525	0.525	0.525	0.525	0.525	0.525
177.5	0.536	0.536	0.536	0.536	0.536	0.536	0.536	0.536	0.536	0.536
180.0	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480

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	449.273	449.273	449.273	449.273	449.273	449.273	449.273
2.5	449.273	449.273	449.273	449.273	449.273	449.273	449.273
5.0	434.056	434.056	434.056	434.056	434.056	434.056	434.056
7.5	417.977	417.977	417.977	417.977	417.977	417.977	417.977
10.0	392.900	392.900	392.900	392.900	392.900	392.900	392.900
12.5	367.794	367.794	367.794	367.794	367.794	367.794	367.794
15.0	342.711	342.711	342.711	342.711	342.711	342.711	342.711
17.5	318.033	318.033	318.033	318.033	318.033	318.033	318.033
20.0	297.344	297.344	297.344	297.344	297.344	297.344	297.344
22.5	277.350	277.350	277.350	277.350	277.350	277.350	277.350
25.0	261.508	261.508	261.508	261.508	261.508	261.508	261.508
27.5	246.376	246.376	246.376	246.376	246.376	246.376	246.376
30.0	234.224	234.224	234.224	234.224	234.224	234.224	234.224
32.5	222.896	222.896	222.896	222.896	222.896	222.896	222.896
35.0	214.188	214.188	214.188	214.188	214.188	214.188	214.188
37.5	205.778	205.778	205.778	205.778	205.778	205.778	205.778
40.0	198.089	198.089	198.089	198.089	198.089	198.089	198.089
42.5	190.446	190.446	190.446	190.446	190.446	190.446	190.446
45.0	182.891	182.891	182.891	182.891	182.891	182.891	182.891
47.5	174.778	174.778	174.778	174.778	174.778	174.778	174.778
50.0	165.776	165.776	165.776	165.776	165.776	165.776	165.776
52.5	156.569	156.569	156.569	156.569	156.569	156.569	156.569
55.0	147.096	147.096	147.096	147.096	147.096	147.096	147.096
57.5	139.445	139.445	139.445	139.445	139.445	139.445	139.445
60.0	133.735	133.735	133.735	133.735	133.735	133.735	133.735
62.5	130.993	130.993	130.993	130.993	130.993	130.993	130.993
65.0	130.851	130.851	130.851	130.851	130.851	130.851	130.851

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CANDELA TABULATION - (Cont.)

67.5	128.853	128.853	128.853	128.853	128.853	128.853	128.853
70.0	125.536	125.536	125.536	125.536	125.536	125.536	125.536
72.5	117.441	117.441	117.441	117.441	117.441	117.441	117.441
75.0	106.540	106.540	106.540	106.540	106.540	106.540	106.540
77.5	95.653	95.653	95.653	95.653	95.653	95.653	95.653
80.0	84.774	84.774	84.774	84.774	84.774	84.774	84.774
82.5	75.064	75.064	75.064	75.064	75.064	75.064	75.064
85.0	65.784	65.784	65.784	65.784	65.784	65.784	65.784
87.5	57.428	57.428	57.428	57.428	57.428	57.428	57.428
90.0	49.337	49.337	49.337	49.337	49.337	49.337	49.337
92.5	46.401	46.401	46.401	46.401	46.401	46.401	46.401
95.0	44.544	44.544	44.544	44.544	44.544	44.544	44.544
97.5	44.280	44.280	44.280	44.280	44.280	44.280	44.280
100.0	44.242	44.242	44.242	44.242	44.242	44.242	44.242
102.5	43.095	43.095	43.095	43.095	43.095	43.095	43.095
105.0	41.856	41.856	41.856	41.856	41.856	41.856	41.856
107.5	39.571	39.571	39.571	39.571	39.571	39.571	39.571
110.0	37.196	37.196	37.196	37.196	37.196	37.196	37.196
112.5	32.194	32.194	32.194	32.194	32.194	32.194	32.194
115.0	27.082	27.082	27.082	27.082	27.082	27.082	27.082
117.5	20.522	20.522	20.522	20.522	20.522	20.522	20.522
120.0	14.339	14.339	14.339	14.339	14.339	14.339	14.339
122.5	10.890	10.890	10.890	10.890	10.890	10.890	10.890
125.0	7.711	7.711	7.711	7.711	7.711	7.711	7.711
127.5	5.854	5.854	5.854	5.854	5.854	5.854	5.854
130.0	4.140	4.140	4.140	4.140	4.140	4.140	4.140
132.5	2.942	2.942	2.942	2.942	2.942	2.942	2.942
135.0	1.913	1.913	1.913	1.913	1.913	1.913	1.913
137.5	1.348	1.348	1.348	1.348	1.348	1.348	1.348
140.0	0.904	0.904	0.904	0.904	0.904	0.904	0.904
142.5	0.721	0.721	0.721	0.721	0.721	0.721	0.721
145.0	0.583	0.583	0.583	0.583	0.583	0.583	0.583
147.5	0.525	0.525	0.525	0.525	0.525	0.525	0.525
150.0	0.502	0.502	0.502	0.502	0.502	0.502	0.502
152.5	0.529	0.529	0.529	0.529	0.529	0.529	0.529
155.0	0.551	0.551	0.551	0.551	0.551	0.551	0.551
157.5	0.567	0.567	0.567	0.567	0.567	0.567	0.567
160.0	0.556	0.556	0.556	0.556	0.556	0.556	0.556
162.5	0.528	0.528	0.528	0.528	0.528	0.528	0.528
165.0	0.513	0.513	0.513	0.513	0.513	0.513	0.513
167.5	0.480	0.480	0.480	0.480	0.480	0.480	0.480
170.0	0.437	0.437	0.437	0.437	0.437	0.437	0.437
172.5	0.532	0.532	0.532	0.532	0.532	0.532	0.532
175.0	0.525	0.525	0.525	0.525	0.525	0.525	0.525
177.5	0.536	0.536	0.536	0.536	0.536	0.536	0.536
180.0	0.480	0.480	0.480	0.480	0.480	0.480	0.480

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	136.17	N.A.	12.30
0-30	256.94	N.A.	23.20
0-40	391.42	N.A.	35.30
0-60	665.12	N.A.	60.00
0-80	906.38	N.A.	81.80
0-90	978.71	N.A.	88.30
10-90	938.48	N.A.	84.70
20-40	255.25	N.A.	23.00
20-50	396.25	N.A.	35.70
40-70	402.78	N.A.	36.30
60-80	241.27	N.A.	21.80
70-80	112.19	N.A.	10.10
80-90	72.33	N.A.	6.50
90-110	93.38	N.A.	8.40
90-120	119.73	N.A.	10.80
90-130	127.37	N.A.	11.50
90-150	129.50	N.A.	11.70
90-180	129.94	N.A.	11.70
110-180	36.56	N.A.	3.30
0-180	1108.65	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	40.23
10-20	95.94
20-30	120.77
30-40	134.48
40-50	141.01
50-60	132.69
60-70	129.08
70-80	112.19
80-90	72.33
90-100	49.65
100-110	43.73
110-120	26.34
120-130	7.64
130-140	1.72
140-150	0.40
150-160	0.25
160-170	0.14
170-180	0.05

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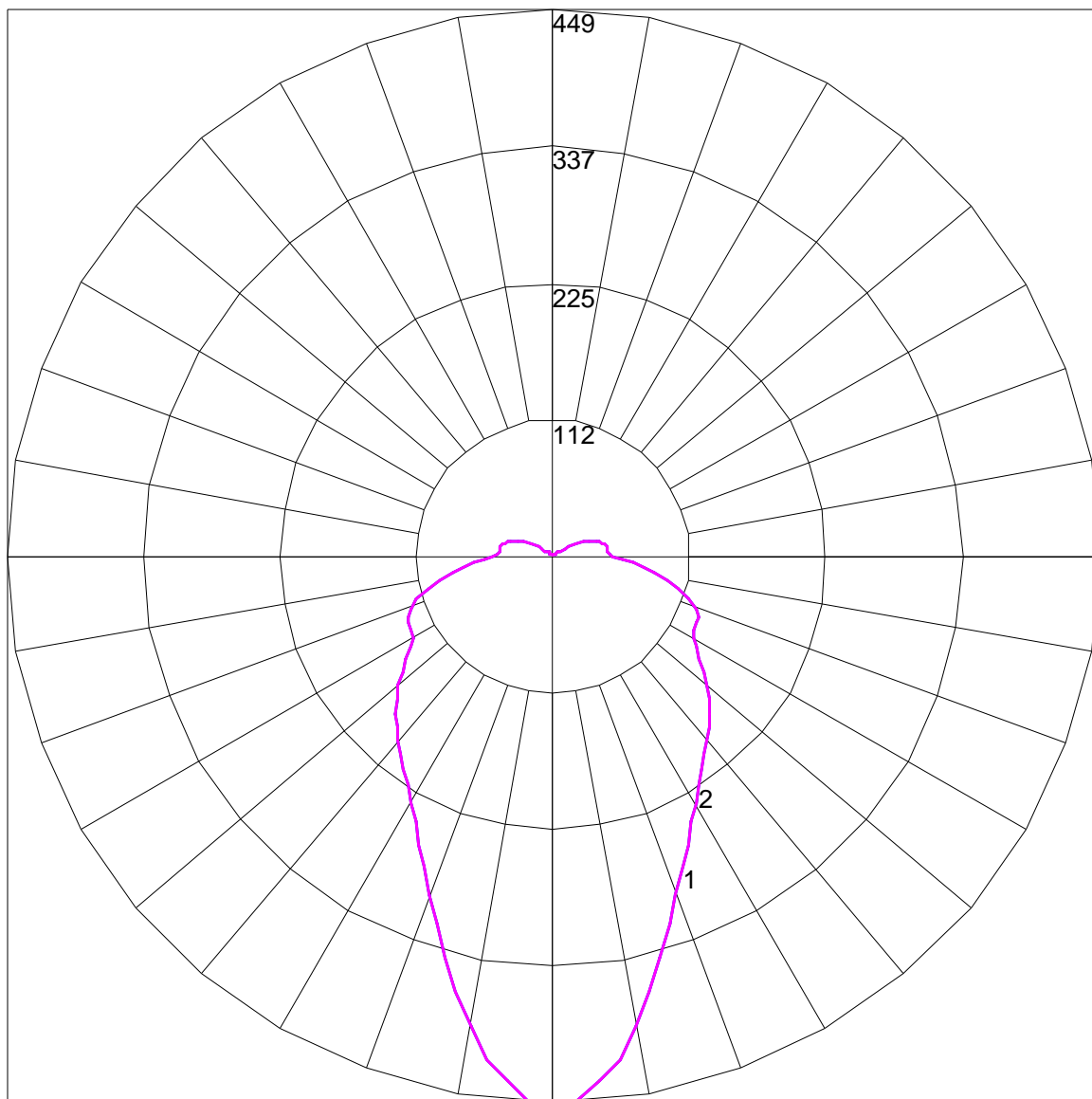
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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-00728 ~ PL1411GV-27L35K-EX-FJ2.IES

POLAR GRAPH



Maximum Candela = 449.273 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)