

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00728 ~ PL1411GV-37L35K-EX-FJ2.IES
DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] SP-00728_M-37L
 [TESTLAB] Spectrum Lighting Photometric Lab, VLS-245-981
 [MANUFAC] Spectrum Lighting
 [ISSUEDATE] 9/18/2018
 [UPDATE] 11/8/2018
 [LUMCAT] PL1411GV-37L35K-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	1626
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	63
Total Luminaire Watts	26
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	2983	2983	2983
55	2709	2709	2709
65	2868	2868	2868
75	2996	2996	2996
85	2694	2694	2694

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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	658.870	658.870	658.870	658.870	658.870	658.870	658.870	658.870	658.870	658.870
2.5	658.870	658.870	658.870	658.870	658.870	658.870	658.870	658.870	658.870	658.870
5.0	636.553	636.553	636.553	636.553	636.553	636.553	636.553	636.553	636.553	636.553
7.5	612.973	612.973	612.973	612.973	612.973	612.973	612.973	612.973	612.973	612.973
10.0	576.197	576.197	576.197	576.197	576.197	576.197	576.197	576.197	576.197	576.197
12.5	539.379	539.379	539.379	539.379	539.379	539.379	539.379	539.379	539.379	539.379
15.0	502.593	502.593	502.593	502.593	502.593	502.593	502.593	502.593	502.593	502.593
17.5	466.402	466.402	466.402	466.402	466.402	466.402	466.402	466.402	466.402	466.402
20.0	436.061	436.061	436.061	436.061	436.061	436.061	436.061	436.061	436.061	436.061
22.5	406.741	406.741	406.741	406.741	406.741	406.741	406.741	406.741	406.741	406.741
25.0	383.507	383.507	383.507	383.507	383.507	383.507	383.507	383.507	383.507	383.507
27.5	361.316	361.316	361.316	361.316	361.316	361.316	361.316	361.316	361.316	361.316
30.0	343.495	343.495	343.495	343.495	343.495	343.495	343.495	343.495	343.495	343.495
32.5	326.881	326.881	326.881	326.881	326.881	326.881	326.881	326.881	326.881	326.881
35.0	314.112	314.112	314.112	314.112	314.112	314.112	314.112	314.112	314.112	314.112
37.5	301.777	301.777	301.777	301.777	301.777	301.777	301.777	301.777	301.777	301.777
40.0	290.502	290.502	290.502	290.502	290.502	290.502	290.502	290.502	290.502	290.502
42.5	279.293	279.293	279.293	279.293	279.293	279.293	279.293	279.293	279.293	279.293
45.0	268.215	268.215	268.215	268.215	268.215	268.215	268.215	268.215	268.215	268.215
47.5	256.316	256.316	256.316	256.316	256.316	256.316	256.316	256.316	256.316	256.316
50.0	243.114	243.114	243.114	243.114	243.114	243.114	243.114	243.114	243.114	243.114
52.5	229.611	229.611	229.611	229.611	229.611	229.611	229.611	229.611	229.611	229.611
55.0	215.720	215.720	215.720	215.720	215.720	215.720	215.720	215.720	215.720	215.720
57.5	204.500	204.500	204.500	204.500	204.500	204.500	204.500	204.500	204.500	204.500
60.0	196.126	196.126	196.126	196.126	196.126	196.126	196.126	196.126	196.126	196.126
62.5	192.104	192.104	192.104	192.104	192.104	192.104	192.104	192.104	192.104	192.104
65.0	191.896	191.896	191.896	191.896	191.896	191.896	191.896	191.896	191.896	191.896
67.5	188.966	188.966	188.966	188.966	188.966	188.966	188.966	188.966	188.966	188.966
70.0	184.101	184.101	184.101	184.101	184.101	184.101	184.101	184.101	184.101	184.101
72.5	172.230	172.230	172.230	172.230	172.230	172.230	172.230	172.230	172.230	172.230
75.0	156.243	156.243	156.243	156.243	156.243	156.243	156.243	156.243	156.243	156.243
77.5	140.278	140.278	140.278	140.278	140.278	140.278	140.278	140.278	140.278	140.278
80.0	124.324	124.324	124.324	124.324	124.324	124.324	124.324	124.324	124.324	124.324
82.5	110.084	110.084	110.084	110.084	110.084	110.084	110.084	110.084	110.084	110.084
85.0	96.474	96.474	96.474	96.474	96.474	96.474	96.474	96.474	96.474	96.474
87.5	84.220	84.220	84.220	84.220	84.220	84.220	84.220	84.220	84.220	84.220
90.0	72.354	72.354	72.354	72.354	72.354	72.354	72.354	72.354	72.354	72.354
92.5	68.048	68.048	68.048	68.048	68.048	68.048	68.048	68.048	68.048	68.048
95.0	65.325	65.325	65.325	65.325	65.325	65.325	65.325	65.325	65.325	65.325
97.5	64.938	64.938	64.938	64.938	64.938	64.938	64.938	64.938	64.938	64.938
100.0	64.882	64.882	64.882	64.882	64.882	64.882	64.882	64.882	64.882	64.882
102.5	63.199	63.199	63.199	63.199	63.199	63.199	63.199	63.199	63.199	63.199
105.0	61.382	61.382	61.382	61.382	61.382	61.382	61.382	61.382	61.382	61.382
107.5	58.031	58.031	58.031	58.031	58.031	58.031	58.031	58.031	58.031	58.031
110.0	54.550	54.550	54.550	54.550	54.550	54.550	54.550	54.550	54.550	54.550
112.5	47.213	47.213	47.213	47.213	47.213	47.213	47.213	47.213	47.213	47.213
115.0	39.717	39.717	39.717	39.717	39.717	39.717	39.717	39.717	39.717	39.717
117.5	30.097	30.097	30.097	30.097	30.097	30.097	30.097	30.097	30.097	30.097
120.0	21.029	21.029	21.029	21.029	21.029	21.029	21.029	21.029	21.029	21.029
122.5	15.970	15.970	15.970	15.970	15.970	15.970	15.970	15.970	15.970	15.970
125.0	11.308	11.308	11.308	11.308	11.308	11.308	11.308	11.308	11.308	11.308

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CANDELA TABULATION - (Cont.)

127.5	8.585	8.585	8.585	8.585	8.585	8.585	8.585	8.585	8.585	8.585
130.0	6.072	6.072	6.072	6.072	6.072	6.072	6.072	6.072	6.072	6.072
132.5	4.314	4.314	4.314	4.314	4.314	4.314	4.314	4.314	4.314	4.314
135.0	2.806	2.806	2.806	2.806	2.806	2.806	2.806	2.806	2.806	2.806
137.5	1.977	1.977	1.977	1.977	1.977	1.977	1.977	1.977	1.977	1.977
140.0	1.325	1.325	1.325	1.325	1.325	1.325	1.325	1.325	1.325	1.325
142.5	1.057	1.057	1.057	1.057	1.057	1.057	1.057	1.057	1.057	1.057
145.0	0.856	0.856	0.856	0.856	0.856	0.856	0.856	0.856	0.856	0.856
147.5	0.770	0.770	0.770	0.770	0.770	0.770	0.770	0.770	0.770	0.770
150.0	0.736	0.736	0.736	0.736	0.736	0.736	0.736	0.736	0.736	0.736
152.5	0.775	0.775	0.775	0.775	0.775	0.775	0.775	0.775	0.775	0.775
155.0	0.807	0.807	0.807	0.807	0.807	0.807	0.807	0.807	0.807	0.807
157.5	0.831	0.831	0.831	0.831	0.831	0.831	0.831	0.831	0.831	0.831
160.0	0.815	0.815	0.815	0.815	0.815	0.815	0.815	0.815	0.815	0.815
162.5	0.774	0.774	0.774	0.774	0.774	0.774	0.774	0.774	0.774	0.774
165.0	0.752	0.752	0.752	0.752	0.752	0.752	0.752	0.752	0.752	0.752
167.5	0.703	0.703	0.703	0.703	0.703	0.703	0.703	0.703	0.703	0.703
170.0	0.641	0.641	0.641	0.641	0.641	0.641	0.641	0.641	0.641	0.641
172.5	0.781	0.781	0.781	0.781	0.781	0.781	0.781	0.781	0.781	0.781
175.0	0.769	0.769	0.769	0.769	0.769	0.769	0.769	0.769	0.769	0.769
177.5	0.786	0.786	0.786	0.786	0.786	0.786	0.786	0.786	0.786	0.786
180.0	0.704	0.704	0.704	0.704	0.704	0.704	0.704	0.704	0.704	0.704

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	658.870	658.870	658.870	658.870	658.870	658.870	658.870
2.5	658.870	658.870	658.870	658.870	658.870	658.870	658.870
5.0	636.553	636.553	636.553	636.553	636.553	636.553	636.553
7.5	612.973	612.973	612.973	612.973	612.973	612.973	612.973
10.0	576.197	576.197	576.197	576.197	576.197	576.197	576.197
12.5	539.379	539.379	539.379	539.379	539.379	539.379	539.379
15.0	502.593	502.593	502.593	502.593	502.593	502.593	502.593
17.5	466.402	466.402	466.402	466.402	466.402	466.402	466.402
20.0	436.061	436.061	436.061	436.061	436.061	436.061	436.061
22.5	406.741	406.741	406.741	406.741	406.741	406.741	406.741
25.0	383.507	383.507	383.507	383.507	383.507	383.507	383.507
27.5	361.316	361.316	361.316	361.316	361.316	361.316	361.316
30.0	343.495	343.495	343.495	343.495	343.495	343.495	343.495
32.5	326.881	326.881	326.881	326.881	326.881	326.881	326.881
35.0	314.112	314.112	314.112	314.112	314.112	314.112	314.112
37.5	301.777	301.777	301.777	301.777	301.777	301.777	301.777
40.0	290.502	290.502	290.502	290.502	290.502	290.502	290.502
42.5	279.293	279.293	279.293	279.293	279.293	279.293	279.293
45.0	268.215	268.215	268.215	268.215	268.215	268.215	268.215
47.5	256.316	256.316	256.316	256.316	256.316	256.316	256.316
50.0	243.114	243.114	243.114	243.114	243.114	243.114	243.114
52.5	229.611	229.611	229.611	229.611	229.611	229.611	229.611
55.0	215.720	215.720	215.720	215.720	215.720	215.720	215.720
57.5	204.500	204.500	204.500	204.500	204.500	204.500	204.500
60.0	196.126	196.126	196.126	196.126	196.126	196.126	196.126
62.5	192.104	192.104	192.104	192.104	192.104	192.104	192.104
65.0	191.896	191.896	191.896	191.896	191.896	191.896	191.896

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CANDELA TABULATION - (Cont.)

67.5	188.966	188.966	188.966	188.966	188.966	188.966	188.966
70.0	184.101	184.101	184.101	184.101	184.101	184.101	184.101
72.5	172.230	172.230	172.230	172.230	172.230	172.230	172.230
75.0	156.243	156.243	156.243	156.243	156.243	156.243	156.243
77.5	140.278	140.278	140.278	140.278	140.278	140.278	140.278
80.0	124.324	124.324	124.324	124.324	124.324	124.324	124.324
82.5	110.084	110.084	110.084	110.084	110.084	110.084	110.084
85.0	96.474	96.474	96.474	96.474	96.474	96.474	96.474
87.5	84.220	84.220	84.220	84.220	84.220	84.220	84.220
90.0	72.354	72.354	72.354	72.354	72.354	72.354	72.354
92.5	68.048	68.048	68.048	68.048	68.048	68.048	68.048
95.0	65.325	65.325	65.325	65.325	65.325	65.325	65.325
97.5	64.938	64.938	64.938	64.938	64.938	64.938	64.938
100.0	64.882	64.882	64.882	64.882	64.882	64.882	64.882
102.5	63.199	63.199	63.199	63.199	63.199	63.199	63.199
105.0	61.382	61.382	61.382	61.382	61.382	61.382	61.382
107.5	58.031	58.031	58.031	58.031	58.031	58.031	58.031
110.0	54.550	54.550	54.550	54.550	54.550	54.550	54.550
112.5	47.213	47.213	47.213	47.213	47.213	47.213	47.213
115.0	39.717	39.717	39.717	39.717	39.717	39.717	39.717
117.5	30.097	30.097	30.097	30.097	30.097	30.097	30.097
120.0	21.029	21.029	21.029	21.029	21.029	21.029	21.029
122.5	15.970	15.970	15.970	15.970	15.970	15.970	15.970
125.0	11.308	11.308	11.308	11.308	11.308	11.308	11.308
127.5	8.585	8.585	8.585	8.585	8.585	8.585	8.585
130.0	6.072	6.072	6.072	6.072	6.072	6.072	6.072
132.5	4.314	4.314	4.314	4.314	4.314	4.314	4.314
135.0	2.806	2.806	2.806	2.806	2.806	2.806	2.806
137.5	1.977	1.977	1.977	1.977	1.977	1.977	1.977
140.0	1.325	1.325	1.325	1.325	1.325	1.325	1.325
142.5	1.057	1.057	1.057	1.057	1.057	1.057	1.057
145.0	0.856	0.856	0.856	0.856	0.856	0.856	0.856
147.5	0.770	0.770	0.770	0.770	0.770	0.770	0.770
150.0	0.736	0.736	0.736	0.736	0.736	0.736	0.736
152.5	0.775	0.775	0.775	0.775	0.775	0.775	0.775
155.0	0.807	0.807	0.807	0.807	0.807	0.807	0.807
157.5	0.831	0.831	0.831	0.831	0.831	0.831	0.831
160.0	0.815	0.815	0.815	0.815	0.815	0.815	0.815
162.5	0.774	0.774	0.774	0.774	0.774	0.774	0.774
165.0	0.752	0.752	0.752	0.752	0.752	0.752	0.752
167.5	0.703	0.703	0.703	0.703	0.703	0.703	0.703
170.0	0.641	0.641	0.641	0.641	0.641	0.641	0.641
172.5	0.781	0.781	0.781	0.781	0.781	0.781	0.781
175.0	0.769	0.769	0.769	0.769	0.769	0.769	0.769
177.5	0.786	0.786	0.786	0.786	0.786	0.786	0.786
180.0	0.704	0.704	0.704	0.704	0.704	0.704	0.704

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	199.70	N.A.	12.30
0-30	376.81	N.A.	23.20
0-40	574.02	N.A.	35.30
0-60	975.41	N.A.	60.00
0-80	1329.23	N.A.	81.80
0-90	1435.3	N.A.	88.30
10-90	1376.31	N.A.	84.70
20-40	374.32	N.A.	23.00
20-50	581.12	N.A.	35.70
40-70	590.69	N.A.	36.30
60-80	353.82	N.A.	21.80
70-80	164.52	N.A.	10.10
80-90	106.07	N.A.	6.50
90-110	136.95	N.A.	8.40
90-120	175.58	N.A.	10.80
90-130	186.79	N.A.	11.50
90-150	189.91	N.A.	11.70
90-180	190.56	N.A.	11.70
110-180	53.61	N.A.	3.30
0-180	1625.86	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	58.99
10-20	140.70
20-30	177.11
30-40	197.21
40-50	206.79
50-60	194.59
60-70	189.30
70-80	164.52
80-90	106.07
90-100	72.82
100-110	64.13
110-120	38.63
120-130	11.21
130-140	2.53
140-150	0.59
150-160	0.37
160-170	0.21
170-180	0.07

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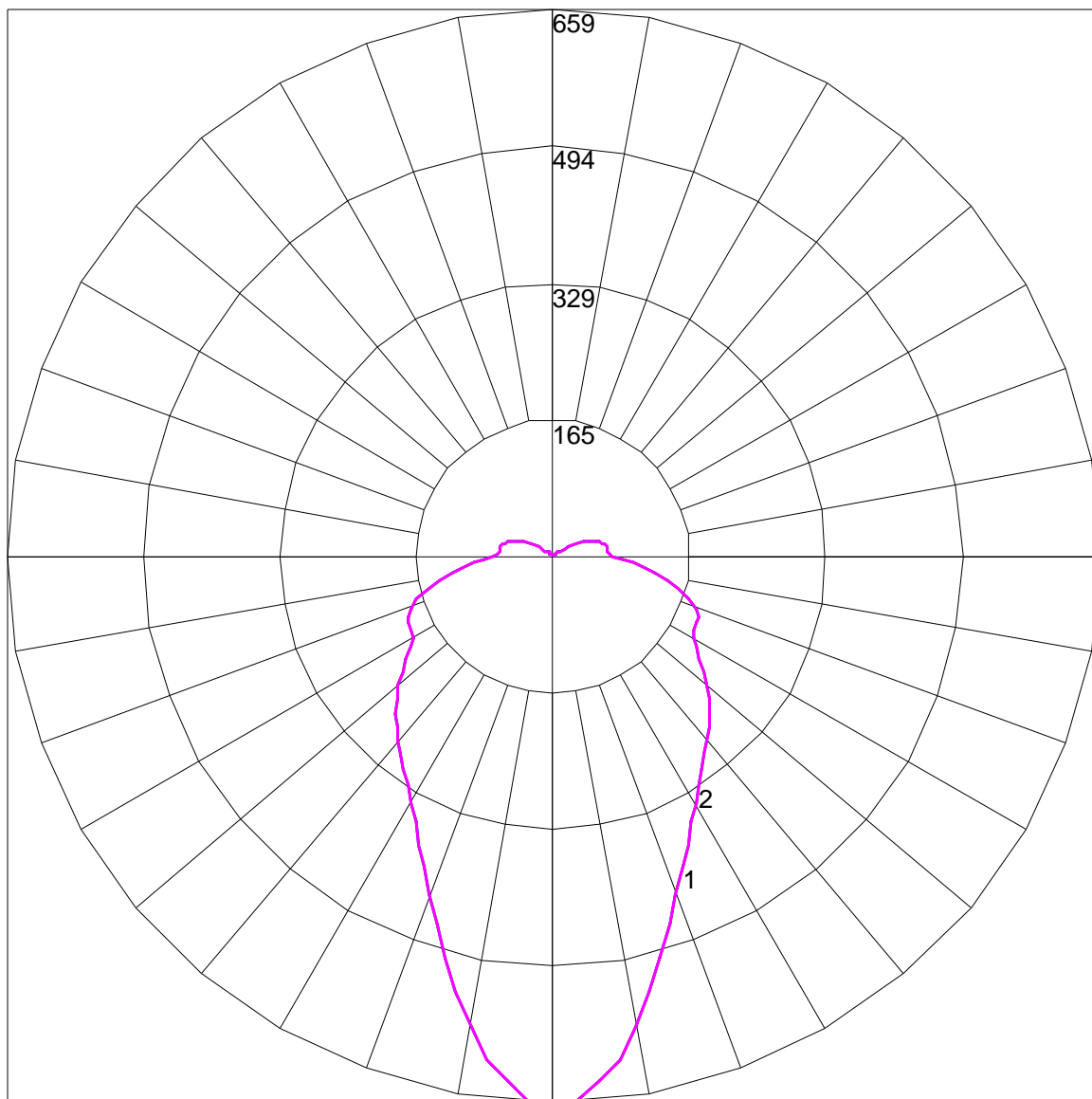
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	74	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-37L35K-EX-FJ2.IES

POLAR GRAPH



Maximum Candela = 658.87 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)