

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : SP-00689\_1 ~ SB1014GV-27L-35KEX-FJ1-CG1-CP6\_RMD-MWI.IES**
**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] SP-00689\_1\_M-27L  
 [TESTLAB] Spectrum Lighting Photometric Lab, VLS-245-981  
 [MANUFAC] Spectrum Lighting  
 [ISSUEDATE] 6/18/2018  
 [UPDATE] 9/10/2018  
 [LUMCAT] SB1014GV-27L-35K-EX-FJ1-CG1-CP6/RMD-MWI  
 [LUMINAIRE] Nom. 14.5" diam x 10" H, Subway Series RLM  
 [OTHER] 3" x 6.5" Inside Frosted Glass Jar  
 [OTHER] Reflector: Matte White interior finish  
 [OTHER] Driver remote from LED and heat sink  
 [LAMP] N/A, Gen3  
 [LAMPCAT] N/A  
 [OTHER] Total Luminaire Watts is approximate  
 [OTHER] CCT Multipliers: 27K x 0.971, 30K x 0.985, 40K x 1.03  
 [OTHER] This report generated by Spectrum Lighting, scaled from 15L  
 [\_CRI]85+  
 [\_CCTMULT]27K x 0.971, 30K x 0.985, 40K x 1.03  
 [\_LAMPMULT]15L x 0.573

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	732
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	41
Total Luminaire Watts	18
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.62
Spacing Criterion (90-270)	0.62
Spacing Criterion (Diagonal)	0.84
Basic Luminous Shape	Circular w/ Sides
Luminous Length (0-180)	1.23 ft (Diameter)
Luminous Width (90-270)	1.23 ft (Diameter)
Luminous Height	0.13 ft

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00689\_1 ~ SB1014GV-27L-35KEX-FJ1-CG1-CP6\_RMD-MWI.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1104	1104	1104
55	2186	2186	2186
65	1942	1942	1942
75	1425	1425	1425
85	1312	1312	1312

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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	345.345	345.345	345.345	345.345	345.345	345.345	345.345	345.345	345.345	345.345
2.5	345.315	345.315	345.315	345.315	345.315	345.315	345.315	345.315	345.315	345.315
5.0	319.882	319.882	319.882	319.882	319.882	319.882	319.882	319.882	319.882	319.882
7.5	294.432	294.432	294.432	294.432	294.432	294.432	294.432	294.432	294.432	294.432
10.0	263.522	263.522	263.522	263.522	263.522	263.522	263.522	263.522	263.522	263.522
12.5	232.666	232.666	232.666	232.666	232.666	232.666	232.666	232.666	232.666	232.666
15.0	213.476	213.476	213.476	213.476	213.476	213.476	213.476	213.476	213.476	213.476
17.5	194.334	194.334	194.334	194.334	194.334	194.334	194.334	194.334	194.334	194.334
20.0	182.549	182.549	182.549	182.549	182.549	182.549	182.549	182.549	182.549	182.549
22.5	170.770	170.770	170.770	170.770	170.770	170.770	170.770	170.770	170.770	170.770
25.0	159.744	159.744	159.744	159.744	159.744	159.744	159.744	159.744	159.744	159.744
27.5	148.724	148.724	148.724	148.724	148.724	148.724	148.724	148.724	148.724	148.724
30.0	138.532	138.532	138.532	138.532	138.532	138.532	138.532	138.532	138.532	138.532
32.5	128.368	128.368	128.368	128.368	128.368	128.368	128.368	128.368	128.368	128.368
35.0	120.468	120.468	120.468	120.468	120.468	120.468	120.468	120.468	120.468	120.468
37.5	112.590	112.590	112.590	112.590	112.590	112.590	112.590	112.590	112.590	112.590
40.0	105.885	105.885	105.885	105.885	105.885	105.885	105.885	105.885	105.885	105.885
42.5	99.272	99.272	99.272	99.272	99.272	99.272	99.272	99.272	99.272	99.272
45.0	97.853	97.853	97.853	97.853	97.853	97.853	97.853	97.853	97.853	97.853
47.5	97.071	97.071	97.071	97.071	97.071	97.071	97.071	97.071	97.071	97.071
50.0	128.436	128.436	128.436	128.436	128.436	128.436	128.436	128.436	128.436	128.436
52.5	159.252	159.252	159.252	159.252	159.252	159.252	159.252	159.252	159.252	159.252
55.0	165.161	165.161	165.161	165.161	165.161	165.161	165.161	165.161	165.161	165.161
57.5	170.501	170.501	170.501	170.501	170.501	170.501	170.501	170.501	170.501	170.501
60.0	152.113	152.113	152.113	152.113	152.113	152.113	152.113	152.113	152.113	152.113
62.5	133.763	133.763	133.763	133.763	133.763	133.763	133.763	133.763	133.763	133.763
65.0	116.830	116.830	116.830	116.830	116.830	116.830	116.830	116.830	116.830	116.830
67.5	99.965	99.965	99.965	99.965	99.965	99.965	99.965	99.965	99.965	99.965
70.0	85.629	85.629	85.629	85.629	85.629	85.629	85.629	85.629	85.629	85.629
72.5	71.416	71.416	71.416	71.416	71.416	71.416	71.416	71.416	71.416	71.416
75.0	61.227	61.227	61.227	61.227	61.227	61.227	61.227	61.227	61.227	61.227
77.5	51.149	51.149	51.149	51.149	51.149	51.149	51.149	51.149	51.149	51.149
80.0	44.396	44.396	44.396	44.396	44.396	44.396	44.396	44.396	44.396	44.396
82.5	37.679	37.679	37.679	37.679	37.679	37.679	37.679	37.679	37.679	37.679
85.0	32.078	32.078	32.078	32.078	32.078	32.078	32.078	32.078	32.078	32.078
87.5	26.588	26.588	26.588	26.588	26.588	26.588	26.588	26.588	26.588	26.588
90.0	24.096	24.096	24.096	24.096	24.096	24.096	24.096	24.096	24.096	24.096
92.5	21.648	21.648	21.648	21.648	21.648	21.648	21.648	21.648	21.648	21.648
95.0	20.282	20.282	20.282	20.282	20.282	20.282	20.282	20.282	20.282	20.282
97.5	18.937	18.937	18.937	18.937	18.937	18.937	18.937	18.937	18.937	18.937
100.0	18.037	18.037	18.037	18.037	18.037	18.037	18.037	18.037	18.037	18.037
102.5	17.122	17.122	17.122	17.122	17.122	17.122	17.122	17.122	17.122	17.122
105.0	15.846	15.846	15.846	15.846	15.846	15.846	15.846	15.846	15.846	15.846
107.5	14.543	14.543	14.543	14.543	14.543	14.543	14.543	14.543	14.543	14.543
110.0	12.654	12.654	12.654	12.654	12.654	12.654	12.654	12.654	12.654	12.654
112.5	10.747	10.747	10.747	10.747	10.747	10.747	10.747	10.747	10.747	10.747
115.0	8.465	8.465	8.465	8.465	8.465	8.465	8.465	8.465	8.465	8.465
117.5	6.239	6.239	6.239	6.239	6.239	6.239	6.239	6.239	6.239	6.239
120.0	5.191	5.191	5.191	5.191	5.191	5.191	5.191	5.191	5.191	5.191
122.5	4.160	4.160	4.160	4.160	4.160	4.160	4.160	4.160	4.160	4.160
125.0	3.460	3.460	3.460	3.460	3.460	3.460	3.460	3.460	3.460	3.460

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## CANDELA TABULATION - (Cont.)

127.5	2.774	2.774	2.774	2.774	2.774	2.774	2.774	2.774	2.774	2.774
130.0	2.333	2.333	2.333	2.333	2.333	2.333	2.333	2.333	2.333	2.333
132.5	1.909	1.909	1.909	1.909	1.909	1.909	1.909	1.909	1.909	1.909
135.0	1.825	1.825	1.825	1.825	1.825	1.825	1.825	1.825	1.825	1.825
137.5	1.746	1.746	1.746	1.746	1.746	1.746	1.746	1.746	1.746	1.746
140.0	1.704	1.704	1.704	1.704	1.704	1.704	1.704	1.704	1.704	1.704
142.5	1.668	1.668	1.668	1.668	1.668	1.668	1.668	1.668	1.668	1.668
145.0	1.694	1.694	1.694	1.694	1.694	1.694	1.694	1.694	1.694	1.694
147.5	1.720	1.720	1.720	1.720	1.720	1.720	1.720	1.720	1.720	1.720
150.0	1.678	1.678	1.678	1.678	1.678	1.678	1.678	1.678	1.678	1.678
152.5	1.643	1.643	1.643	1.643	1.643	1.643	1.643	1.643	1.643	1.643
155.0	1.669	1.669	1.669	1.669	1.669	1.669	1.669	1.669	1.669	1.669
157.5	1.694	1.694	1.694	1.694	1.694	1.694	1.694	1.694	1.694	1.694
160.0	1.706	1.706	1.706	1.706	1.706	1.706	1.706	1.706	1.706	1.706
162.5	1.718	1.718	1.718	1.718	1.718	1.718	1.718	1.718	1.718	1.718
165.0	1.720	1.720	1.720	1.720	1.720	1.720	1.720	1.720	1.720	1.720
167.5	1.722	1.722	1.722	1.722	1.722	1.722	1.722	1.722	1.722	1.722
170.0	1.722	1.722	1.722	1.722	1.722	1.722	1.722	1.722	1.722	1.722
172.5	1.722	1.722	1.722	1.722	1.722	1.722	1.722	1.722	1.722	1.722
175.0	1.727	1.727	1.727	1.727	1.727	1.727	1.727	1.727	1.727	1.727
177.5	1.720	1.720	1.720	1.720	1.720	1.720	1.720	1.720	1.720	1.720
180.0	1.650	1.650	1.650	1.650	1.650	1.650	1.650	1.650	1.650	1.650

## 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	345.345	345.345	345.345	345.345	345.345	345.345	345.345
2.5	345.315	345.315	345.315	345.315	345.315	345.315	345.315
5.0	319.882	319.882	319.882	319.882	319.882	319.882	319.882
7.5	294.432	294.432	294.432	294.432	294.432	294.432	294.432
10.0	263.522	263.522	263.522	263.522	263.522	263.522	263.522
12.5	232.666	232.666	232.666	232.666	232.666	232.666	232.666
15.0	213.476	213.476	213.476	213.476	213.476	213.476	213.476
17.5	194.334	194.334	194.334	194.334	194.334	194.334	194.334
20.0	182.549	182.549	182.549	182.549	182.549	182.549	182.549
22.5	170.770	170.770	170.770	170.770	170.770	170.770	170.770
25.0	159.744	159.744	159.744	159.744	159.744	159.744	159.744
27.5	148.724	148.724	148.724	148.724	148.724	148.724	148.724
30.0	138.532	138.532	138.532	138.532	138.532	138.532	138.532
32.5	128.368	128.368	128.368	128.368	128.368	128.368	128.368
35.0	120.468	120.468	120.468	120.468	120.468	120.468	120.468
37.5	112.590	112.590	112.590	112.590	112.590	112.590	112.590
40.0	105.885	105.885	105.885	105.885	105.885	105.885	105.885
42.5	99.272	99.272	99.272	99.272	99.272	99.272	99.272
45.0	97.853	97.853	97.853	97.853	97.853	97.853	97.853
47.5	97.071	97.071	97.071	97.071	97.071	97.071	97.071
50.0	128.436	128.436	128.436	128.436	128.436	128.436	128.436
52.5	159.252	159.252	159.252	159.252	159.252	159.252	159.252
55.0	165.161	165.161	165.161	165.161	165.161	165.161	165.161
57.5	170.501	170.501	170.501	170.501	170.501	170.501	170.501
60.0	152.113	152.113	152.113	152.113	152.113	152.113	152.113
62.5	133.763	133.763	133.763	133.763	133.763	133.763	133.763
65.0	116.830	116.830	116.830	116.830	116.830	116.830	116.830

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00689\_1 ~ SB1014GV-27L-35KEX-FJ1-CG1-CP6\_RMD-MWI.IES****CANDELA TABULATION - (Cont.)**

67.5	99.965	99.965	99.965	99.965	99.965	99.965	99.965
70.0	85.629	85.629	85.629	85.629	85.629	85.629	85.629
72.5	71.416	71.416	71.416	71.416	71.416	71.416	71.416
75.0	61.227	61.227	61.227	61.227	61.227	61.227	61.227
77.5	51.149	51.149	51.149	51.149	51.149	51.149	51.149
80.0	44.396	44.396	44.396	44.396	44.396	44.396	44.396
82.5	37.679	37.679	37.679	37.679	37.679	37.679	37.679
85.0	32.078	32.078	32.078	32.078	32.078	32.078	32.078
87.5	26.588	26.588	26.588	26.588	26.588	26.588	26.588
90.0	24.096	24.096	24.096	24.096	24.096	24.096	24.096
92.5	21.648	21.648	21.648	21.648	21.648	21.648	21.648
95.0	20.282	20.282	20.282	20.282	20.282	20.282	20.282
97.5	18.937	18.937	18.937	18.937	18.937	18.937	18.937
100.0	18.037	18.037	18.037	18.037	18.037	18.037	18.037
102.5	17.122	17.122	17.122	17.122	17.122	17.122	17.122
105.0	15.846	15.846	15.846	15.846	15.846	15.846	15.846
107.5	14.543	14.543	14.543	14.543	14.543	14.543	14.543
110.0	12.654	12.654	12.654	12.654	12.654	12.654	12.654
112.5	10.747	10.747	10.747	10.747	10.747	10.747	10.747
115.0	8.465	8.465	8.465	8.465	8.465	8.465	8.465
117.5	6.239	6.239	6.239	6.239	6.239	6.239	6.239
120.0	5.191	5.191	5.191	5.191	5.191	5.191	5.191
122.5	4.160	4.160	4.160	4.160	4.160	4.160	4.160
125.0	3.460	3.460	3.460	3.460	3.460	3.460	3.460
127.5	2.774	2.774	2.774	2.774	2.774	2.774	2.774
130.0	2.333	2.333	2.333	2.333	2.333	2.333	2.333
132.5	1.909	1.909	1.909	1.909	1.909	1.909	1.909
135.0	1.825	1.825	1.825	1.825	1.825	1.825	1.825
137.5	1.746	1.746	1.746	1.746	1.746	1.746	1.746
140.0	1.704	1.704	1.704	1.704	1.704	1.704	1.704
142.5	1.668	1.668	1.668	1.668	1.668	1.668	1.668
145.0	1.694	1.694	1.694	1.694	1.694	1.694	1.694
147.5	1.720	1.720	1.720	1.720	1.720	1.720	1.720
150.0	1.678	1.678	1.678	1.678	1.678	1.678	1.678
152.5	1.643	1.643	1.643	1.643	1.643	1.643	1.643
155.0	1.669	1.669	1.669	1.669	1.669	1.669	1.669
157.5	1.694	1.694	1.694	1.694	1.694	1.694	1.694
160.0	1.706	1.706	1.706	1.706	1.706	1.706	1.706
162.5	1.718	1.718	1.718	1.718	1.718	1.718	1.718
165.0	1.720	1.720	1.720	1.720	1.720	1.720	1.720
167.5	1.722	1.722	1.722	1.722	1.722	1.722	1.722
170.0	1.722	1.722	1.722	1.722	1.722	1.722	1.722
172.5	1.722	1.722	1.722	1.722	1.722	1.722	1.722
175.0	1.727	1.727	1.727	1.727	1.727	1.727	1.727
177.5	1.720	1.720	1.720	1.720	1.720	1.720	1.720
180.0	1.650	1.650	1.650	1.650	1.650	1.650	1.650

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Zone	Lumens	%Lamp	%Fixt
0-20	88.88	N.A.	12.10
0-30	162.32	N.A.	22.20
0-40	237.88	N.A.	32.50
0-60	460.31	N.A.	62.90
0-80	642.02	N.A.	87.70
0-90	677.61	N.A.	92.50
10-90	648.79	N.A.	88.60
20-40	149.00	N.A.	20.30
20-50	228.76	N.A.	31.20
40-70	338.50	N.A.	46.20
60-80	181.71	N.A.	24.80
70-80	65.64	N.A.	9.00
80-90	35.59	N.A.	4.90
90-110	39.00	N.A.	5.30
90-120	47.58	N.A.	6.50
90-130	50.78	N.A.	6.90
90-150	53.30	N.A.	7.30
90-180	54.73	N.A.	7.50
110-180	15.73	N.A.	2.10
0-180	732.34	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	28.83
10-20	60.05
20-30	73.44
30-40	75.56
40-50	79.76
50-60	142.67
60-70	116.07
70-80	65.64
80-90	35.59
90-100	22.36
100-110	16.64
110-120	8.58
120-130	3.20
130-140	1.46
140-150	1.06
150-160	0.77
160-170	0.49
170-180	0.16

# IES INDOOR REPORT

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## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

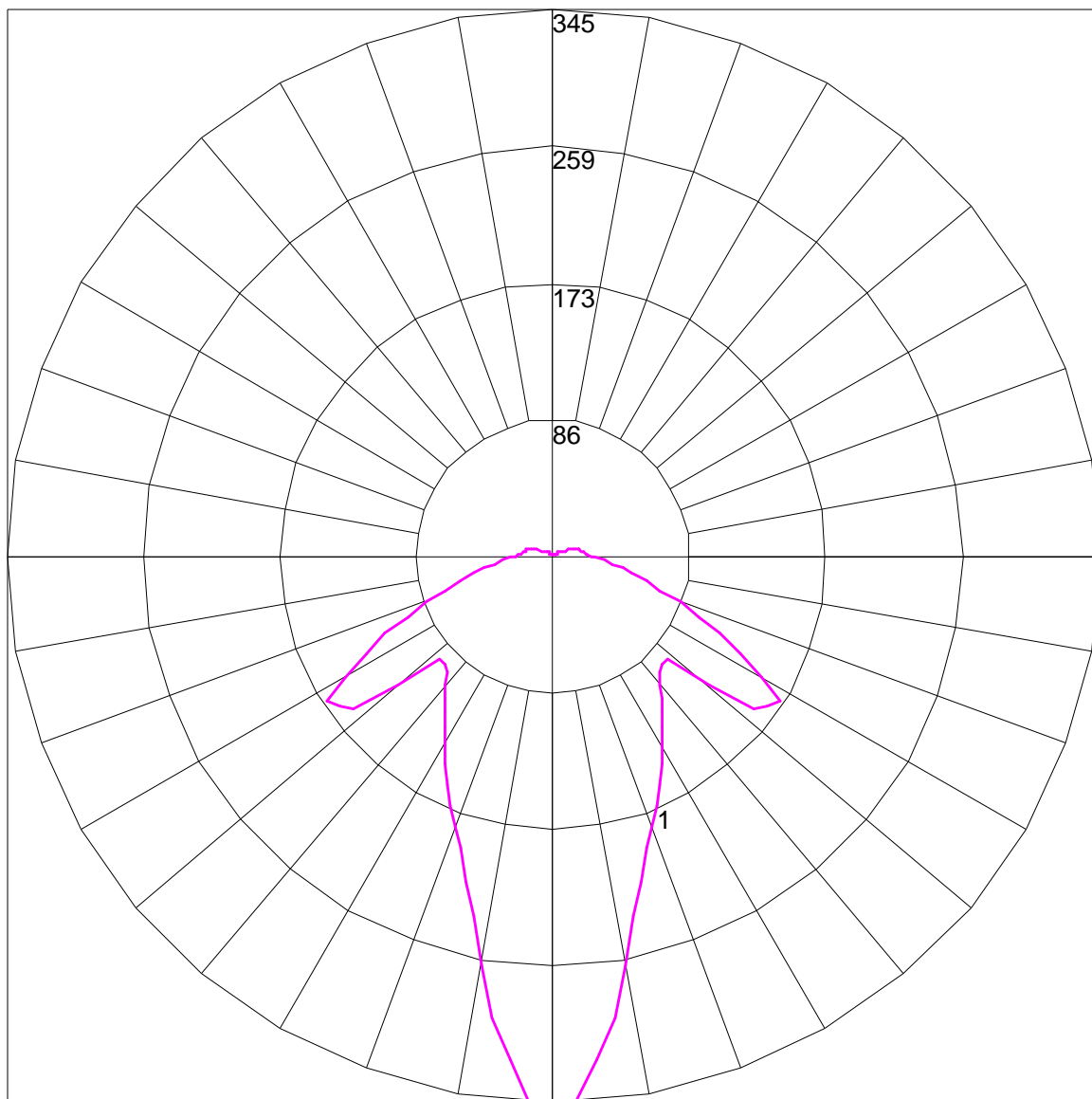
Effective Floor Cavity Reflectance 0.20

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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	95	95	95	93
1	105	99	94	90	101	96	92	87	91	87	83	85	82	79	80	78	76	73
2	94	85	77	71	91	82	75	69	77	72	66	73	68	64	69	65	61	59
3	85	73	64	57	82	71	63	56	67	60	54	63	57	52	60	55	50	48
4	77	64	55	48	74	63	54	47	59	51	45	56	49	44	53	47	42	40
5	71	57	47	40	68	56	47	40	52	45	39	50	43	38	47	41	36	34
6	65	51	42	35	63	50	41	34	47	39	34	45	38	33	42	36	32	29
7	61	46	37	31	58	45	37	30	43	35	30	41	34	29	39	33	28	26
8	56	42	33	27	54	41	33	27	39	32	26	37	31	26	36	30	25	23
9	53	39	30	25	51	38	30	24	36	29	24	35	28	23	33	27	23	21
10	50	36	28	22	48	35	27	22	34	27	22	32	26	21	31	25	21	19

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : SP-00689\_1 ~ SB1014GV-27L-35KEX-FJ1-CG1-CP6\_RMD-MWI.IES

## POLAR GRAPH



Maximum Candela = 345.345 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)