

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00689_2 ~ SB1014GV-15L-35KEX-FJ1-CG1-CP6_RMD-MBI.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] SP-00689_2
[TESTLAB] Spectrum Lighting Photometric Lab, VLS-245-981
[MANUFAC] Spectrum Lighting
[ISSUE DATE] 6/18/2018
[UPDATE] 9/10/2018
[LUMCAT] SB1014GV-15L-30K-EX-FJ1-CG1-CP6/RMD-MBI
[LUMINAIRE] Nom. 14.5" diam x 10" H, Subway Series RLM
[OTHER] 3" x 6.5" Inside Frosted Glass Jar
[OTHER] Reflector: Matte Black 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
[_CRI]85+
[_CCTMULT]27K x 0.971, 30K x 0.985, 40K x 1.03
[_LAMPMULT]

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	369
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	37
Total Luminaire Watts	10
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_2 ~ SB1014GV-15L-35KEX-FJ1-CG1-CP6_RMD-MBI.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	465	465	465
55	1183	1183	1183
65	1029	1029	1029
75	780	780	780
85	747	747	747

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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	163.064	163.064	163.064	163.064	163.064	163.064	163.064	163.064	163.064	163.064
2.5	163.064	163.064	163.064	163.064	163.064	163.064	163.064	163.064	163.064	163.064
5.0	163.064	163.064	163.064	163.064	163.064	163.064	163.064	163.064	163.064	163.064
7.5	145.664	145.664	145.664	145.664	145.664	145.664	145.664	145.664	145.664	145.664
10.0	128.198	128.198	128.198	128.198	128.198	128.198	128.198	128.198	128.198	128.198
12.5	113.926	113.926	113.926	113.926	113.926	113.926	113.926	113.926	113.926	113.926
15.0	99.679	99.679	99.679	99.679	99.679	99.679	99.679	99.679	99.679	99.679
17.5	91.944	91.944	91.944	91.944	91.944	91.944	91.944	91.944	91.944	91.944
20.0	84.282	84.282	84.282	84.282	84.282	84.282	84.282	84.282	84.282	84.282
22.5	79.141	79.141	79.141	79.141	79.141	79.141	79.141	79.141	79.141	79.141
25.0	74.040	74.040	74.040	74.040	74.040	74.040	74.040	74.040	74.040	74.040
27.5	68.908	68.908	68.908	68.908	68.908	68.908	68.908	68.908	68.908	68.908
30.0	63.775	63.775	63.775	63.775	63.775	63.775	63.775	63.775	63.775	63.775
32.5	59.119	59.119	59.119	59.119	59.119	59.119	59.119	59.119	59.119	59.119
35.0	54.475	54.475	54.475	54.475	54.475	54.475	54.475	54.475	54.475	54.475
37.5	50.597	50.597	50.597	50.597	50.597	50.597	50.597	50.597	50.597	50.597
40.0	46.738	46.738	46.738	46.738	46.738	46.738	46.738	46.738	46.738	46.738
42.5	43.944	43.944	43.944	43.944	43.944	43.944	43.944	43.944	43.944	43.944
45.0	41.184	41.184	41.184	41.184	41.184	41.184	41.184	41.184	41.184	41.184
47.5	49.940	49.940	49.940	49.940	49.940	49.940	49.940	49.940	49.940	49.940
50.0	59.096	59.096	59.096	59.096	59.096	59.096	59.096	59.096	59.096	59.096
52.5	74.126	74.126	74.126	74.126	74.126	74.126	74.126	74.126	74.126	74.126
55.0	89.382	89.382	89.382	89.382	89.382	89.382	89.382	89.382	89.382	89.382
57.5	85.102	85.102	85.102	85.102	85.102	85.102	85.102	85.102	85.102	85.102
60.0	79.988	79.988	79.988	79.988	79.988	79.988	79.988	79.988	79.988	79.988
62.5	71.034	71.034	71.034	71.034	71.034	71.034	71.034	71.034	71.034	71.034
65.0	61.900	61.900	61.900	61.900	61.900	61.900	61.900	61.900	61.900	61.900
67.5	53.983	53.983	53.983	53.983	53.983	53.983	53.983	53.983	53.983	53.983
70.0	46.128	46.128	46.128	46.128	46.128	46.128	46.128	46.128	46.128	46.128
72.5	39.787	39.787	39.787	39.787	39.787	39.787	39.787	39.787	39.787	39.787
75.0	33.530	33.530	33.530	33.530	33.530	33.530	33.530	33.530	33.530	33.530
77.5	29.084	29.084	29.084	29.084	29.084	29.084	29.084	29.084	29.084	29.084
80.0	24.744	24.744	24.744	24.744	24.744	24.744	24.744	24.744	24.744	24.744
82.5	21.463	21.463	21.463	21.463	21.463	21.463	21.463	21.463	21.463	21.463
85.0	18.247	18.247	18.247	18.247	18.247	18.247	18.247	18.247	18.247	18.247
87.5	16.458	16.458	16.458	16.458	16.458	16.458	16.458	16.458	16.458	16.458
90.0	14.765	14.765	14.765	14.765	14.765	14.765	14.765	14.765	14.765	14.765
92.5	13.458	13.458	13.458	13.458	13.458	13.458	13.458	13.458	13.458	13.458
95.0	12.179	12.179	12.179	12.179	12.179	12.179	12.179	12.179	12.179	12.179
97.5	11.255	11.255	11.255	11.255	11.255	11.255	11.255	11.255	11.255	11.255
100.0	10.358	10.358	10.358	10.358	10.358	10.358	10.358	10.358	10.358	10.358
102.5	9.543	9.543	9.543	9.543	9.543	9.543	9.543	9.543	9.543	9.543
105.0	8.733	8.733	8.733	8.733	8.733	8.733	8.733	8.733	8.733	8.733
107.5	7.935	7.935	7.935	7.935	7.935	7.935	7.935	7.935	7.935	7.935
110.0	7.136	7.136	7.136	7.136	7.136	7.136	7.136	7.136	7.136	7.136
112.5	5.492	5.492	5.492	5.492	5.492	5.492	5.492	5.492	5.492	5.492
115.0	3.770	3.770	3.770	3.770	3.770	3.770	3.770	3.770	3.770	3.770
117.5	3.152	3.152	3.152	3.152	3.152	3.152	3.152	3.152	3.152	3.152
120.0	2.635	2.635	2.635	2.635	2.635	2.635	2.635	2.635	2.635	2.635
122.5	2.154	2.154	2.154	2.154	2.154	2.154	2.154	2.154	2.154	2.154
125.0	1.675	1.675	1.675	1.675	1.675	1.675	1.675	1.675	1.675	1.675

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CANDELA TABULATION - (Cont.)

127.5	1.419	1.419	1.419	1.419	1.419	1.419	1.419	1.419	1.419	1.419
130.0	1.186	1.186	1.186	1.186	1.186	1.186	1.186	1.186	1.186	1.186
132.5	1.069	1.069	1.069	1.069	1.069	1.069	1.069	1.069	1.069	1.069
135.0	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.964
137.5	0.936	0.936	0.936	0.936	0.936	0.936	0.936	0.936	0.936	0.936
140.0	0.917	0.917	0.917	0.917	0.917	0.917	0.917	0.917	0.917	0.917
142.5	0.896	0.896	0.896	0.896	0.896	0.896	0.896	0.896	0.896	0.896
145.0	0.875	0.875	0.875	0.875	0.875	0.875	0.875	0.875	0.875	0.875
147.5	0.891	0.891	0.891	0.891	0.891	0.891	0.891	0.891	0.891	0.891
150.0	0.912	0.912	0.912	0.912	0.912	0.912	0.912	0.912	0.912	0.912
152.5	0.905	0.905	0.905	0.905	0.905	0.905	0.905	0.905	0.905	0.905
155.0	0.896	0.896	0.896	0.896	0.896	0.896	0.896	0.896	0.896	0.896
157.5	0.914	0.914	0.914	0.914	0.914	0.914	0.914	0.914	0.914	0.914
160.0	0.934	0.934	0.934	0.934	0.934	0.934	0.934	0.934	0.934	0.934
162.5	0.929	0.929	0.929	0.929	0.929	0.929	0.929	0.929	0.929	0.929
165.0	0.920	0.920	0.920	0.920	0.920	0.920	0.920	0.920	0.920	0.920
167.5	0.918	0.918	0.918	0.918	0.918	0.918	0.918	0.918	0.918	0.918
170.0	0.917	0.917	0.917	0.917	0.917	0.917	0.917	0.917	0.917	0.917
172.5	0.892	0.892	0.892	0.892	0.892	0.892	0.892	0.892	0.892	0.892
175.0	0.864	0.864	0.864	0.864	0.864	0.864	0.864	0.864	0.864	0.864
177.5	0.900	0.900	0.900	0.900	0.900	0.900	0.900	0.900	0.900	0.900
180.0	0.899	0.899	0.899	0.899	0.899	0.899	0.899	0.899	0.899	0.899

Vert.
Angles

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	163.064	163.064	163.064	163.064	163.064	163.064	163.064
2.5	163.064	163.064	163.064	163.064	163.064	163.064	163.064
5.0	163.064	163.064	163.064	163.064	163.064	163.064	163.064
7.5	145.664	145.664	145.664	145.664	145.664	145.664	145.664
10.0	128.198	128.198	128.198	128.198	128.198	128.198	128.198
12.5	113.926	113.926	113.926	113.926	113.926	113.926	113.926
15.0	99.679	99.679	99.679	99.679	99.679	99.679	99.679
17.5	91.944	91.944	91.944	91.944	91.944	91.944	91.944
20.0	84.282	84.282	84.282	84.282	84.282	84.282	84.282
22.5	79.141	79.141	79.141	79.141	79.141	79.141	79.141
25.0	74.040	74.040	74.040	74.040	74.040	74.040	74.040
27.5	68.908	68.908	68.908	68.908	68.908	68.908	68.908
30.0	63.775	63.775	63.775	63.775	63.775	63.775	63.775
32.5	59.119	59.119	59.119	59.119	59.119	59.119	59.119
35.0	54.475	54.475	54.475	54.475	54.475	54.475	54.475
37.5	50.597	50.597	50.597	50.597	50.597	50.597	50.597
40.0	46.738	46.738	46.738	46.738	46.738	46.738	46.738
42.5	43.944	43.944	43.944	43.944	43.944	43.944	43.944
45.0	41.184	41.184	41.184	41.184	41.184	41.184	41.184
47.5	49.940	49.940	49.940	49.940	49.940	49.940	49.940
50.0	59.096	59.096	59.096	59.096	59.096	59.096	59.096
52.5	74.126	74.126	74.126	74.126	74.126	74.126	74.126
55.0	89.382	89.382	89.382	89.382	89.382	89.382	89.382
57.5	85.102	85.102	85.102	85.102	85.102	85.102	85.102
60.0	79.988	79.988	79.988	79.988	79.988	79.988	79.988
62.5	71.034	71.034	71.034	71.034	71.034	71.034	71.034
65.0	61.900	61.900	61.900	61.900	61.900	61.900	61.900

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00689_2 ~ SB1014GV-15L-35KEX-FJ1-CG1-CP6_RMD-MBI.IES****CANDELA TABULATION - (Cont.)**

67.5	53.983	53.983	53.983	53.983	53.983	53.983	53.983
70.0	46.128	46.128	46.128	46.128	46.128	46.128	46.128
72.5	39.787	39.787	39.787	39.787	39.787	39.787	39.787
75.0	33.530	33.530	33.530	33.530	33.530	33.530	33.530
77.5	29.084	29.084	29.084	29.084	29.084	29.084	29.084
80.0	24.744	24.744	24.744	24.744	24.744	24.744	24.744
82.5	21.463	21.463	21.463	21.463	21.463	21.463	21.463
85.0	18.247	18.247	18.247	18.247	18.247	18.247	18.247
87.5	16.458	16.458	16.458	16.458	16.458	16.458	16.458
90.0	14.765	14.765	14.765	14.765	14.765	14.765	14.765
92.5	13.458	13.458	13.458	13.458	13.458	13.458	13.458
95.0	12.179	12.179	12.179	12.179	12.179	12.179	12.179
97.5	11.255	11.255	11.255	11.255	11.255	11.255	11.255
100.0	10.358	10.358	10.358	10.358	10.358	10.358	10.358
102.5	9.543	9.543	9.543	9.543	9.543	9.543	9.543
105.0	8.733	8.733	8.733	8.733	8.733	8.733	8.733
107.5	7.935	7.935	7.935	7.935	7.935	7.935	7.935
110.0	7.136	7.136	7.136	7.136	7.136	7.136	7.136
112.5	5.492	5.492	5.492	5.492	5.492	5.492	5.492
115.0	3.770	3.770	3.770	3.770	3.770	3.770	3.770
117.5	3.152	3.152	3.152	3.152	3.152	3.152	3.152
120.0	2.635	2.635	2.635	2.635	2.635	2.635	2.635
122.5	2.154	2.154	2.154	2.154	2.154	2.154	2.154
125.0	1.675	1.675	1.675	1.675	1.675	1.675	1.675
127.5	1.419	1.419	1.419	1.419	1.419	1.419	1.419
130.0	1.186	1.186	1.186	1.186	1.186	1.186	1.186
132.5	1.069	1.069	1.069	1.069	1.069	1.069	1.069
135.0	0.964	0.964	0.964	0.964	0.964	0.964	0.964
137.5	0.936	0.936	0.936	0.936	0.936	0.936	0.936
140.0	0.917	0.917	0.917	0.917	0.917	0.917	0.917
142.5	0.896	0.896	0.896	0.896	0.896	0.896	0.896
145.0	0.875	0.875	0.875	0.875	0.875	0.875	0.875
147.5	0.891	0.891	0.891	0.891	0.891	0.891	0.891
150.0	0.912	0.912	0.912	0.912	0.912	0.912	0.912
152.5	0.905	0.905	0.905	0.905	0.905	0.905	0.905
155.0	0.896	0.896	0.896	0.896	0.896	0.896	0.896
157.5	0.914	0.914	0.914	0.914	0.914	0.914	0.914
160.0	0.934	0.934	0.934	0.934	0.934	0.934	0.934
162.5	0.929	0.929	0.929	0.929	0.929	0.929	0.929
165.0	0.920	0.920	0.920	0.920	0.920	0.920	0.920
167.5	0.918	0.918	0.918	0.918	0.918	0.918	0.918
170.0	0.917	0.917	0.917	0.917	0.917	0.917	0.917
172.5	0.892	0.892	0.892	0.892	0.892	0.892	0.892
175.0	0.864	0.864	0.864	0.864	0.864	0.864	0.864
177.5	0.900	0.900	0.900	0.900	0.900	0.900	0.900
180.0	0.899	0.899	0.899	0.899	0.899	0.899	0.899

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00689_2 ~ SB1014GV-15L-35KEX-FJ1-CG1-CP6_RMD-MBI.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	42.76	N.A.	11.60
0-30	76.75	N.A.	20.80
0-40	111.01	N.A.	30.10
0-60	219.08	N.A.	59.40
0-80	317.26	N.A.	86.00
0-90	337.96	N.A.	91.60
10-90	323.74	N.A.	87.80
20-40	68.24	N.A.	18.50
20-50	104.77	N.A.	28.40
40-70	169.89	N.A.	46.10
60-80	98.19	N.A.	26.60
70-80	36.37	N.A.	9.90
80-90	20.70	N.A.	5.60
90-110	22.75	N.A.	6.20
90-120	27.07	N.A.	7.30
90-130	28.69	N.A.	7.80
90-150	30.04	N.A.	8.10
90-180	30.80	N.A.	8.40
110-180	8.05	N.A.	2.20
0-180	368.76	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	14.22
10-20	28.55
20-30	33.99
30-40	34.26
40-50	36.52
50-60	71.55
60-70	61.82
70-80	36.37
80-90	20.70
90-100	13.49
100-110	9.26
110-120	4.32
120-130	1.62
130-140	0.78
140-150	0.56
150-160	0.42
160-170	0.26
170-180	0.09

IES INDOOR REPORT

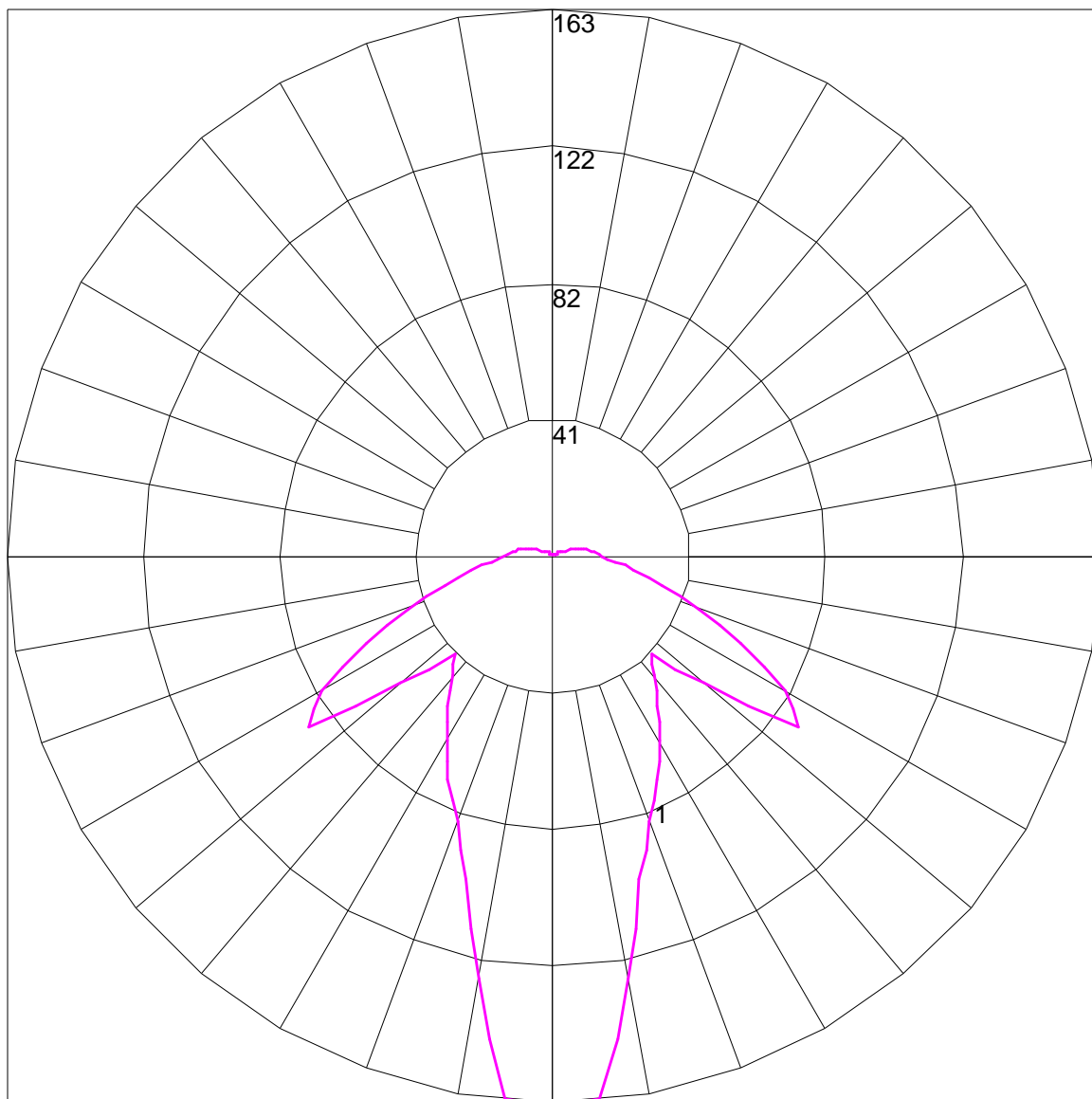
PHOTOMETRIC FILENAME : SP-00689_2 ~ SB1014GV-15L-35KEX-FJ1-CG1-CP6_RMD-MBI.IES

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	113	113	113	113	106	106	106	100	100	100	94	94	94	92
1	104	98	93	88	100	95	90	86	89	85	82	84	81	78	79	76	74	71
2	93	84	76	69	90	81	74	67	76	70	64	71	66	62	67	63	59	56
3	84	72	63	55	81	70	61	54	65	58	52	61	55	50	58	53	48	46
4	76	63	53	46	73	61	52	45	57	50	43	54	47	42	51	45	40	38
5	70	56	46	39	67	54	45	38	51	43	37	48	41	36	45	39	35	32
6	64	50	40	33	62	48	39	33	46	38	32	43	36	31	41	35	30	28
7	59	45	36	29	57	44	35	29	42	34	28	39	32	27	37	31	27	24
8	55	41	32	26	53	40	32	26	38	31	25	36	29	24	34	28	24	22
9	52	38	29	24	50	37	29	23	35	28	23	33	27	22	32	26	22	20
10	49	35	27	21	47	34	26	21	33	26	21	31	25	20	30	24	20	18

POLAR GRAPH



Maximum Candela = 163.064 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180)