

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00689_2 ~ SB1014GV-27L-35KEX-FJ1-CG1-CP6_RMD-MBI.IES
DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] SP-00689_2_M-27L
 [TESTLAB] Spectrum Lighting Photometric Lab, VLS-245-981
 [MANUFAC] Spectrum Lighting
 [ISSUE DATE] 6/18/2018
 [UPDATE] 9/10/2018
 [LUMCAT] SB1014GV-27L-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, 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	645
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	36
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_2 ~ SB1014GV-27L-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	813	813	813
55	2070	2070	2070
65	1800	1800	1800
75	1366	1366	1366
85	1306	1306	1306

IES INDOOR REPORT

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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	285.362	285.362	285.362	285.362	285.362	285.362	285.362	285.362	285.362	285.362
2.5	285.362	285.362	285.362	285.362	285.362	285.362	285.362	285.362	285.362	285.362
5.0	285.362	285.362	285.362	285.362	285.362	285.362	285.362	285.362	285.362	285.362
7.5	254.912	254.912	254.912	254.912	254.912	254.912	254.912	254.912	254.912	254.912
10.0	224.346	224.346	224.346	224.346	224.346	224.346	224.346	224.346	224.346	224.346
12.5	199.370	199.370	199.370	199.370	199.370	199.370	199.370	199.370	199.370	199.370
15.0	174.438	174.438	174.438	174.438	174.438	174.438	174.438	174.438	174.438	174.438
17.5	160.902	160.902	160.902	160.902	160.902	160.902	160.902	160.902	160.902	160.902
20.0	147.494	147.494	147.494	147.494	147.494	147.494	147.494	147.494	147.494	147.494
22.5	138.497	138.497	138.497	138.497	138.497	138.497	138.497	138.497	138.497	138.497
25.0	129.570	129.570	129.570	129.570	129.570	129.570	129.570	129.570	129.570	129.570
27.5	120.589	120.589	120.589	120.589	120.589	120.589	120.589	120.589	120.589	120.589
30.0	111.606	111.606	111.606	111.606	111.606	111.606	111.606	111.606	111.606	111.606
32.5	103.458	103.458	103.458	103.458	103.458	103.458	103.458	103.458	103.458	103.458
35.0	95.331	95.331	95.331	95.331	95.331	95.331	95.331	95.331	95.331	95.331
37.5	88.545	88.545	88.545	88.545	88.545	88.545	88.545	88.545	88.545	88.545
40.0	81.791	81.791	81.791	81.791	81.791	81.791	81.791	81.791	81.791	81.791
42.5	76.902	76.902	76.902	76.902	76.902	76.902	76.902	76.902	76.902	76.902
45.0	72.072	72.072	72.072	72.072	72.072	72.072	72.072	72.072	72.072	72.072
47.5	87.395	87.395	87.395	87.395	87.395	87.395	87.395	87.395	87.395	87.395
50.0	103.418	103.418	103.418	103.418	103.418	103.418	103.418	103.418	103.418	103.418
52.5	129.720	129.720	129.720	129.720	129.720	129.720	129.720	129.720	129.720	129.720
55.0	156.418	156.418	156.418	156.418	156.418	156.418	156.418	156.418	156.418	156.418
57.5	148.929	148.929	148.929	148.929	148.929	148.929	148.929	148.929	148.929	148.929
60.0	139.979	139.979	139.979	139.979	139.979	139.979	139.979	139.979	139.979	139.979
62.5	124.309	124.309	124.309	124.309	124.309	124.309	124.309	124.309	124.309	124.309
65.0	108.325	108.325	108.325	108.325	108.325	108.325	108.325	108.325	108.325	108.325
67.5	94.470	94.470	94.470	94.470	94.470	94.470	94.470	94.470	94.470	94.470
70.0	80.724	80.724	80.724	80.724	80.724	80.724	80.724	80.724	80.724	80.724
72.5	69.627	69.627	69.627	69.627	69.627	69.627	69.627	69.627	69.627	69.627
75.0	58.678	58.678	58.678	58.678	58.678	58.678	58.678	58.678	58.678	58.678
77.5	50.897	50.897	50.897	50.897	50.897	50.897	50.897	50.897	50.897	50.897
80.0	43.302	43.302	43.302	43.302	43.302	43.302	43.302	43.302	43.302	43.302
82.5	37.560	37.560	37.560	37.560	37.560	37.560	37.560	37.560	37.560	37.560
85.0	31.932	31.932	31.932	31.932	31.932	31.932	31.932	31.932	31.932	31.932
87.5	28.802	28.802	28.802	28.802	28.802	28.802	28.802	28.802	28.802	28.802
90.0	25.839	25.839	25.839	25.839	25.839	25.839	25.839	25.839	25.839	25.839
92.5	23.552	23.552	23.552	23.552	23.552	23.552	23.552	23.552	23.552	23.552
95.0	21.313	21.313	21.313	21.313	21.313	21.313	21.313	21.313	21.313	21.313
97.5	19.696	19.696	19.696	19.696	19.696	19.696	19.696	19.696	19.696	19.696
100.0	18.127	18.127	18.127	18.127	18.127	18.127	18.127	18.127	18.127	18.127
102.5	16.700	16.700	16.700	16.700	16.700	16.700	16.700	16.700	16.700	16.700
105.0	15.283	15.283	15.283	15.283	15.283	15.283	15.283	15.283	15.283	15.283
107.5	13.886	13.886	13.886	13.886	13.886	13.886	13.886	13.886	13.886	13.886
110.0	12.488	12.488	12.488	12.488	12.488	12.488	12.488	12.488	12.488	12.488
112.5	9.611	9.611	9.611	9.611	9.611	9.611	9.611	9.611	9.611	9.611
115.0	6.598	6.598	6.598	6.598	6.598	6.598	6.598	6.598	6.598	6.598
117.5	5.516	5.516	5.516	5.516	5.516	5.516	5.516	5.516	5.516	5.516
120.0	4.611	4.611	4.611	4.611	4.611	4.611	4.611	4.611	4.611	4.611
122.5	3.769	3.769	3.769	3.769	3.769	3.769	3.769	3.769	3.769	3.769
125.0	2.931	2.931	2.931	2.931	2.931	2.931	2.931	2.931	2.931	2.931

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CANDELA TABULATION - (Cont.)

127.5	2.483	2.483	2.483	2.483	2.483	2.483	2.483	2.483	2.483	2.483
130.0	2.075	2.075	2.075	2.075	2.075	2.075	2.075	2.075	2.075	2.075
132.5	1.871	1.871	1.871	1.871	1.871	1.871	1.871	1.871	1.871	1.871
135.0	1.687	1.687	1.687	1.687	1.687	1.687	1.687	1.687	1.687	1.687
137.5	1.638	1.638	1.638	1.638	1.638	1.638	1.638	1.638	1.638	1.638
140.0	1.605	1.605	1.605	1.605	1.605	1.605	1.605	1.605	1.605	1.605
142.5	1.568	1.568	1.568	1.568	1.568	1.568	1.568	1.568	1.568	1.568
145.0	1.531	1.531	1.531	1.531	1.531	1.531	1.531	1.531	1.531	1.531
147.5	1.559	1.559	1.559	1.559	1.559	1.559	1.559	1.559	1.559	1.559
150.0	1.596	1.596	1.596	1.596	1.596	1.596	1.596	1.596	1.596	1.596
152.5	1.584	1.584	1.584	1.584	1.584	1.584	1.584	1.584	1.584	1.584
155.0	1.568	1.568	1.568	1.568	1.568	1.568	1.568	1.568	1.568	1.568
157.5	1.599	1.599	1.599	1.599	1.599	1.599	1.599	1.599	1.599	1.599
160.0	1.635	1.635	1.635	1.635	1.635	1.635	1.635	1.635	1.635	1.635
162.5	1.626	1.626	1.626	1.626	1.626	1.626	1.626	1.626	1.626	1.626
165.0	1.610	1.610	1.610	1.610	1.610	1.610	1.610	1.610	1.610	1.610
167.5	1.607	1.607	1.607	1.607	1.607	1.607	1.607	1.607	1.607	1.607
170.0	1.605	1.605	1.605	1.605	1.605	1.605	1.605	1.605	1.605	1.605
172.5	1.561	1.561	1.561	1.561	1.561	1.561	1.561	1.561	1.561	1.561
175.0	1.512	1.512	1.512	1.512	1.512	1.512	1.512	1.512	1.512	1.512
177.5	1.575	1.575	1.575	1.575	1.575	1.575	1.575	1.575	1.575	1.575
180.0	1.573	1.573	1.573	1.573	1.573	1.573	1.573	1.573	1.573	1.573

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	285.362	285.362	285.362	285.362	285.362	285.362	285.362
2.5	285.362	285.362	285.362	285.362	285.362	285.362	285.362
5.0	285.362	285.362	285.362	285.362	285.362	285.362	285.362
7.5	254.912	254.912	254.912	254.912	254.912	254.912	254.912
10.0	224.346	224.346	224.346	224.346	224.346	224.346	224.346
12.5	199.370	199.370	199.370	199.370	199.370	199.370	199.370
15.0	174.438	174.438	174.438	174.438	174.438	174.438	174.438
17.5	160.902	160.902	160.902	160.902	160.902	160.902	160.902
20.0	147.494	147.494	147.494	147.494	147.494	147.494	147.494
22.5	138.497	138.497	138.497	138.497	138.497	138.497	138.497
25.0	129.570	129.570	129.570	129.570	129.570	129.570	129.570
27.5	120.589	120.589	120.589	120.589	120.589	120.589	120.589
30.0	111.606	111.606	111.606	111.606	111.606	111.606	111.606
32.5	103.458	103.458	103.458	103.458	103.458	103.458	103.458
35.0	95.331	95.331	95.331	95.331	95.331	95.331	95.331
37.5	88.545	88.545	88.545	88.545	88.545	88.545	88.545
40.0	81.791	81.791	81.791	81.791	81.791	81.791	81.791
42.5	76.902	76.902	76.902	76.902	76.902	76.902	76.902
45.0	72.072	72.072	72.072	72.072	72.072	72.072	72.072
47.5	87.395	87.395	87.395	87.395	87.395	87.395	87.395
50.0	103.418	103.418	103.418	103.418	103.418	103.418	103.418
52.5	129.720	129.720	129.720	129.720	129.720	129.720	129.720
55.0	156.418	156.418	156.418	156.418	156.418	156.418	156.418
57.5	148.929	148.929	148.929	148.929	148.929	148.929	148.929
60.0	139.979	139.979	139.979	139.979	139.979	139.979	139.979
62.5	124.309	124.309	124.309	124.309	124.309	124.309	124.309
65.0	108.325	108.325	108.325	108.325	108.325	108.325	108.325

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00689_2 ~ SB1014GV-27L-35KEX-FJ1-CG1-CP6_RMD-MBI.IES****CANDELA TABULATION - (Cont.)**

67.5	94.470	94.470	94.470	94.470	94.470	94.470	94.470
70.0	80.724	80.724	80.724	80.724	80.724	80.724	80.724
72.5	69.627	69.627	69.627	69.627	69.627	69.627	69.627
75.0	58.678	58.678	58.678	58.678	58.678	58.678	58.678
77.5	50.897	50.897	50.897	50.897	50.897	50.897	50.897
80.0	43.302	43.302	43.302	43.302	43.302	43.302	43.302
82.5	37.560	37.560	37.560	37.560	37.560	37.560	37.560
85.0	31.932	31.932	31.932	31.932	31.932	31.932	31.932
87.5	28.802	28.802	28.802	28.802	28.802	28.802	28.802
90.0	25.839	25.839	25.839	25.839	25.839	25.839	25.839
92.5	23.552	23.552	23.552	23.552	23.552	23.552	23.552
95.0	21.313	21.313	21.313	21.313	21.313	21.313	21.313
97.5	19.696	19.696	19.696	19.696	19.696	19.696	19.696
100.0	18.127	18.127	18.127	18.127	18.127	18.127	18.127
102.5	16.700	16.700	16.700	16.700	16.700	16.700	16.700
105.0	15.283	15.283	15.283	15.283	15.283	15.283	15.283
107.5	13.886	13.886	13.886	13.886	13.886	13.886	13.886
110.0	12.488	12.488	12.488	12.488	12.488	12.488	12.488
112.5	9.611	9.611	9.611	9.611	9.611	9.611	9.611
115.0	6.598	6.598	6.598	6.598	6.598	6.598	6.598
117.5	5.516	5.516	5.516	5.516	5.516	5.516	5.516
120.0	4.611	4.611	4.611	4.611	4.611	4.611	4.611
122.5	3.769	3.769	3.769	3.769	3.769	3.769	3.769
125.0	2.931	2.931	2.931	2.931	2.931	2.931	2.931
127.5	2.483	2.483	2.483	2.483	2.483	2.483	2.483
130.0	2.075	2.075	2.075	2.075	2.075	2.075	2.075
132.5	1.871	1.871	1.871	1.871	1.871	1.871	1.871
135.0	1.687	1.687	1.687	1.687	1.687	1.687	1.687
137.5	1.638	1.638	1.638	1.638	1.638	1.638	1.638
140.0	1.605	1.605	1.605	1.605	1.605	1.605	1.605
142.5	1.568	1.568	1.568	1.568	1.568	1.568	1.568
145.0	1.531	1.531	1.531	1.531	1.531	1.531	1.531
147.5	1.559	1.559	1.559	1.559	1.559	1.559	1.559
150.0	1.596	1.596	1.596	1.596	1.596	1.596	1.596
152.5	1.584	1.584	1.584	1.584	1.584	1.584	1.584
155.0	1.568	1.568	1.568	1.568	1.568	1.568	1.568
157.5	1.599	1.599	1.599	1.599	1.599	1.599	1.599
160.0	1.635	1.635	1.635	1.635	1.635	1.635	1.635
162.5	1.626	1.626	1.626	1.626	1.626	1.626	1.626
165.0	1.610	1.610	1.610	1.610	1.610	1.610	1.610
167.5	1.607	1.607	1.607	1.607	1.607	1.607	1.607
170.0	1.605	1.605	1.605	1.605	1.605	1.605	1.605
172.5	1.561	1.561	1.561	1.561	1.561	1.561	1.561
175.0	1.512	1.512	1.512	1.512	1.512	1.512	1.512
177.5	1.575	1.575	1.575	1.575	1.575	1.575	1.575
180.0	1.573	1.573	1.573	1.573	1.573	1.573	1.573

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00689_2 ~ SB1014GV-27L-35KEX-FJ1-CG1-CP6_RMD-MBI.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	74.84	N.A.	11.60
0-30	134.32	N.A.	20.80
0-40	194.26	N.A.	30.10
0-60	383.38	N.A.	59.40
0-80	555.21	N.A.	86.00
0-90	591.43	N.A.	91.60
10-90	566.55	N.A.	87.80
20-40	119.43	N.A.	18.50
20-50	183.34	N.A.	28.40
40-70	297.30	N.A.	46.10
60-80	171.83	N.A.	26.60
70-80	63.65	N.A.	9.90
80-90	36.22	N.A.	5.60
90-110	39.82	N.A.	6.20
90-120	47.38	N.A.	7.30
90-130	50.21	N.A.	7.80
90-150	52.56	N.A.	8.10
90-180	53.91	N.A.	8.40
110-180	14.09	N.A.	2.20
0-180	645.34	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	24.88
10-20	49.96
20-30	59.48
30-40	59.95
40-50	63.92
50-60	125.20
60-70	108.18
70-80	63.65
80-90	36.22
90-100	23.62
100-110	16.20
110-120	7.56
120-130	2.83
130-140	1.37
140-150	0.98
150-160	0.74
160-170	0.46
170-180	0.15

IES INDOOR REPORT

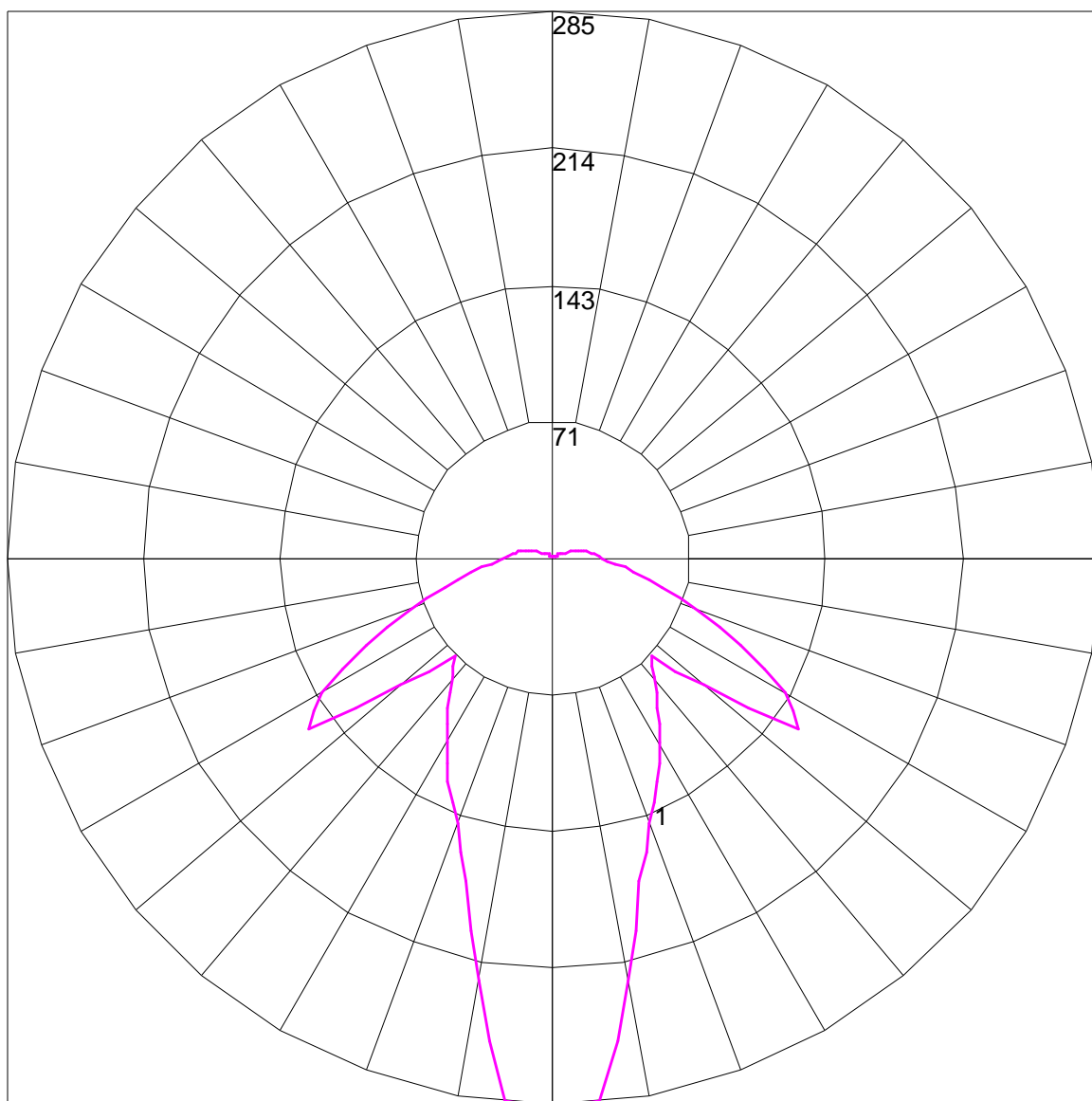
PHOTOMETRIC FILENAME : SP-00689_2 ~ SB1014GV-27L-35KEX-FJ1-CG1-CP6_RMD-MBI.IES

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	107	107	107	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	65	71	66	62	67	63	59	56
3	84	72	63	55	81	70	61	54	66	58	52	62	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	49	40	33	46	38	32	43	36	31	41	35	30	28
7	60	45	36	29	57	44	35	29	42	34	28	39	33	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 = 285.362 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180)