

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00689_1 ~ SB1014GV-15L-35KEX-FJ1-CG1-CP6_RMD-MWI.IES
DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] SP-00689_1
 [TESTLAB] Spectrum Lighting Photometric Lab, VLS-245-981
 [MANUFAC] Spectrum Lighting
 [ISSUEDATE] 6/18/2018
 [UPDATE] 9/10/2018
 [LUMCAT] SB1014GV-15L-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
 [_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	418
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	42
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_1 ~ SB1014GV-15L-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	631	631	631
55	1249	1249	1249
65	1109	1109	1109
75	814	814	814
85	750	750	750

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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	197.340	197.340	197.340	197.340	197.340	197.340	197.340	197.340	197.340	197.340
2.5	197.323	197.323	197.323	197.323	197.323	197.323	197.323	197.323	197.323	197.323
5.0	182.790	182.790	182.790	182.790	182.790	182.790	182.790	182.790	182.790	182.790
7.5	168.247	168.247	168.247	168.247	168.247	168.247	168.247	168.247	168.247	168.247
10.0	150.584	150.584	150.584	150.584	150.584	150.584	150.584	150.584	150.584	150.584
12.5	132.952	132.952	132.952	132.952	132.952	132.952	132.952	132.952	132.952	132.952
15.0	121.986	121.986	121.986	121.986	121.986	121.986	121.986	121.986	121.986	121.986
17.5	111.048	111.048	111.048	111.048	111.048	111.048	111.048	111.048	111.048	111.048
20.0	104.314	104.314	104.314	104.314	104.314	104.314	104.314	104.314	104.314	104.314
22.5	97.583	97.583	97.583	97.583	97.583	97.583	97.583	97.583	97.583	97.583
25.0	91.282	91.282	91.282	91.282	91.282	91.282	91.282	91.282	91.282	91.282
27.5	84.985	84.985	84.985	84.985	84.985	84.985	84.985	84.985	84.985	84.985
30.0	79.161	79.161	79.161	79.161	79.161	79.161	79.161	79.161	79.161	79.161
32.5	73.353	73.353	73.353	73.353	73.353	73.353	73.353	73.353	73.353	73.353
35.0	68.839	68.839	68.839	68.839	68.839	68.839	68.839	68.839	68.839	68.839
37.5	64.337	64.337	64.337	64.337	64.337	64.337	64.337	64.337	64.337	64.337
40.0	60.506	60.506	60.506	60.506	60.506	60.506	60.506	60.506	60.506	60.506
42.5	56.727	56.727	56.727	56.727	56.727	56.727	56.727	56.727	56.727	56.727
45.0	55.916	55.916	55.916	55.916	55.916	55.916	55.916	55.916	55.916	55.916
47.5	55.469	55.469	55.469	55.469	55.469	55.469	55.469	55.469	55.469	55.469
50.0	73.392	73.392	73.392	73.392	73.392	73.392	73.392	73.392	73.392	73.392
52.5	91.001	91.001	91.001	91.001	91.001	91.001	91.001	91.001	91.001	91.001
55.0	94.378	94.378	94.378	94.378	94.378	94.378	94.378	94.378	94.378	94.378
57.5	97.429	97.429	97.429	97.429	97.429	97.429	97.429	97.429	97.429	97.429
60.0	86.922	86.922	86.922	86.922	86.922	86.922	86.922	86.922	86.922	86.922
62.5	76.436	76.436	76.436	76.436	76.436	76.436	76.436	76.436	76.436	76.436
65.0	66.760	66.760	66.760	66.760	66.760	66.760	66.760	66.760	66.760	66.760
67.5	57.123	57.123	57.123	57.123	57.123	57.123	57.123	57.123	57.123	57.123
70.0	48.931	48.931	48.931	48.931	48.931	48.931	48.931	48.931	48.931	48.931
72.5	40.809	40.809	40.809	40.809	40.809	40.809	40.809	40.809	40.809	40.809
75.0	34.987	34.987	34.987	34.987	34.987	34.987	34.987	34.987	34.987	34.987
77.5	29.228	29.228	29.228	29.228	29.228	29.228	29.228	29.228	29.228	29.228
80.0	25.369	25.369	25.369	25.369	25.369	25.369	25.369	25.369	25.369	25.369
82.5	21.531	21.531	21.531	21.531	21.531	21.531	21.531	21.531	21.531	21.531
85.0	18.330	18.330	18.330	18.330	18.330	18.330	18.330	18.330	18.330	18.330
87.5	15.193	15.193	15.193	15.193	15.193	15.193	15.193	15.193	15.193	15.193
90.0	13.769	13.769	13.769	13.769	13.769	13.769	13.769	13.769	13.769	13.769
92.5	12.370	12.370	12.370	12.370	12.370	12.370	12.370	12.370	12.370	12.370
95.0	11.590	11.590	11.590	11.590	11.590	11.590	11.590	11.590	11.590	11.590
97.5	10.821	10.821	10.821	10.821	10.821	10.821	10.821	10.821	10.821	10.821
100.0	10.307	10.307	10.307	10.307	10.307	10.307	10.307	10.307	10.307	10.307
102.5	9.784	9.784	9.784	9.784	9.784	9.784	9.784	9.784	9.784	9.784
105.0	9.055	9.055	9.055	9.055	9.055	9.055	9.055	9.055	9.055	9.055
107.5	8.310	8.310	8.310	8.310	8.310	8.310	8.310	8.310	8.310	8.310
110.0	7.231	7.231	7.231	7.231	7.231	7.231	7.231	7.231	7.231	7.231
112.5	6.141	6.141	6.141	6.141	6.141	6.141	6.141	6.141	6.141	6.141
115.0	4.837	4.837	4.837	4.837	4.837	4.837	4.837	4.837	4.837	4.837
117.5	3.565	3.565	3.565	3.565	3.565	3.565	3.565	3.565	3.565	3.565
120.0	2.966	2.966	2.966	2.966	2.966	2.966	2.966	2.966	2.966	2.966
122.5	2.377	2.377	2.377	2.377	2.377	2.377	2.377	2.377	2.377	2.377
125.0	1.977	1.977	1.977	1.977	1.977	1.977	1.977	1.977	1.977	1.977

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CANDELA TABULATION - (Cont.)

127.5	1.585	1.585	1.585	1.585	1.585	1.585	1.585	1.585	1.585	1.585
130.0	1.333	1.333	1.333	1.333	1.333	1.333	1.333	1.333	1.333	1.333
132.5	1.091	1.091	1.091	1.091	1.091	1.091	1.091	1.091	1.091	1.091
135.0	1.043	1.043	1.043	1.043	1.043	1.043	1.043	1.043	1.043	1.043
137.5	0.998	0.998	0.998	0.998	0.998	0.998	0.998	0.998	0.998	0.998
140.0	0.974	0.974	0.974	0.974	0.974	0.974	0.974	0.974	0.974	0.974
142.5	0.953	0.953	0.953	0.953	0.953	0.953	0.953	0.953	0.953	0.953
145.0	0.968	0.968	0.968	0.968	0.968	0.968	0.968	0.968	0.968	0.968
147.5	0.983	0.983	0.983	0.983	0.983	0.983	0.983	0.983	0.983	0.983
150.0	0.959	0.959	0.959	0.959	0.959	0.959	0.959	0.959	0.959	0.959
152.5	0.939	0.939	0.939	0.939	0.939	0.939	0.939	0.939	0.939	0.939
155.0	0.954	0.954	0.954	0.954	0.954	0.954	0.954	0.954	0.954	0.954
157.5	0.968	0.968	0.968	0.968	0.968	0.968	0.968	0.968	0.968	0.968
160.0	0.975	0.975	0.975	0.975	0.975	0.975	0.975	0.975	0.975	0.975
162.5	0.982	0.982	0.982	0.982	0.982	0.982	0.982	0.982	0.982	0.982
165.0	0.983	0.983	0.983	0.983	0.983	0.983	0.983	0.983	0.983	0.983
167.5	0.984	0.984	0.984	0.984	0.984	0.984	0.984	0.984	0.984	0.984
170.0	0.984	0.984	0.984	0.984	0.984	0.984	0.984	0.984	0.984	0.984
172.5	0.984	0.984	0.984	0.984	0.984	0.984	0.984	0.984	0.984	0.984
175.0	0.987	0.987	0.987	0.987	0.987	0.987	0.987	0.987	0.987	0.987
177.5	0.983	0.983	0.983	0.983	0.983	0.983	0.983	0.983	0.983	0.983
180.0	0.943	0.943	0.943	0.943	0.943	0.943	0.943	0.943	0.943	0.943

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	197.340	197.340	197.340	197.340	197.340	197.340	197.340
2.5	197.323	197.323	197.323	197.323	197.323	197.323	197.323
5.0	182.790	182.790	182.790	182.790	182.790	182.790	182.790
7.5	168.247	168.247	168.247	168.247	168.247	168.247	168.247
10.0	150.584	150.584	150.584	150.584	150.584	150.584	150.584
12.5	132.952	132.952	132.952	132.952	132.952	132.952	132.952
15.0	121.986	121.986	121.986	121.986	121.986	121.986	121.986
17.5	111.048	111.048	111.048	111.048	111.048	111.048	111.048
20.0	104.314	104.314	104.314	104.314	104.314	104.314	104.314
22.5	97.583	97.583	97.583	97.583	97.583	97.583	97.583
25.0	91.282	91.282	91.282	91.282	91.282	91.282	91.282
27.5	84.985	84.985	84.985	84.985	84.985	84.985	84.985
30.0	79.161	79.161	79.161	79.161	79.161	79.161	79.161
32.5	73.353	73.353	73.353	73.353	73.353	73.353	73.353
35.0	68.839	68.839	68.839	68.839	68.839	68.839	68.839
37.5	64.337	64.337	64.337	64.337	64.337	64.337	64.337
40.0	60.506	60.506	60.506	60.506	60.506	60.506	60.506
42.5	56.727	56.727	56.727	56.727	56.727	56.727	56.727
45.0	55.916	55.916	55.916	55.916	55.916	55.916	55.916
47.5	55.469	55.469	55.469	55.469	55.469	55.469	55.469
50.0	73.392	73.392	73.392	73.392	73.392	73.392	73.392
52.5	91.001	91.001	91.001	91.001	91.001	91.001	91.001
55.0	94.378	94.378	94.378	94.378	94.378	94.378	94.378
57.5	97.429	97.429	97.429	97.429	97.429	97.429	97.429
60.0	86.922	86.922	86.922	86.922	86.922	86.922	86.922
62.5	76.436	76.436	76.436	76.436	76.436	76.436	76.436
65.0	66.760	66.760	66.760	66.760	66.760	66.760	66.760

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00689_1 ~ SB1014GV-15L-35KEX-FJ1-CG1-CP6_RMD-MWI.IES****CANDELA TABULATION - (Cont.)**

67.5	57.123	57.123	57.123	57.123	57.123	57.123	57.123
70.0	48.931	48.931	48.931	48.931	48.931	48.931	48.931
72.5	40.809	40.809	40.809	40.809	40.809	40.809	40.809
75.0	34.987	34.987	34.987	34.987	34.987	34.987	34.987
77.5	29.228	29.228	29.228	29.228	29.228	29.228	29.228
80.0	25.369	25.369	25.369	25.369	25.369	25.369	25.369
82.5	21.531	21.531	21.531	21.531	21.531	21.531	21.531
85.0	18.330	18.330	18.330	18.330	18.330	18.330	18.330
87.5	15.193	15.193	15.193	15.193	15.193	15.193	15.193
90.0	13.769	13.769	13.769	13.769	13.769	13.769	13.769
92.5	12.370	12.370	12.370	12.370	12.370	12.370	12.370
95.0	11.590	11.590	11.590	11.590	11.590	11.590	11.590
97.5	10.821	10.821	10.821	10.821	10.821	10.821	10.821
100.0	10.307	10.307	10.307	10.307	10.307	10.307	10.307
102.5	9.784	9.784	9.784	9.784	9.784	9.784	9.784
105.0	9.055	9.055	9.055	9.055	9.055	9.055	9.055
107.5	8.310	8.310	8.310	8.310	8.310	8.310	8.310
110.0	7.231	7.231	7.231	7.231	7.231	7.231	7.231
112.5	6.141	6.141	6.141	6.141	6.141	6.141	6.141
115.0	4.837	4.837	4.837	4.837	4.837	4.837	4.837
117.5	3.565	3.565	3.565	3.565	3.565	3.565	3.565
120.0	2.966	2.966	2.966	2.966	2.966	2.966	2.966
122.5	2.377	2.377	2.377	2.377	2.377	2.377	2.377
125.0	1.977	1.977	1.977	1.977	1.977	1.977	1.977
127.5	1.585	1.585	1.585	1.585	1.585	1.585	1.585
130.0	1.333	1.333	1.333	1.333	1.333	1.333	1.333
132.5	1.091	1.091	1.091	1.091	1.091	1.091	1.091
135.0	1.043	1.043	1.043	1.043	1.043	1.043	1.043
137.5	0.998	0.998	0.998	0.998	0.998	0.998	0.998
140.0	0.974	0.974	0.974	0.974	0.974	0.974	0.974
142.5	0.953	0.953	0.953	0.953	0.953	0.953	0.953
145.0	0.968	0.968	0.968	0.968	0.968	0.968	0.968
147.5	0.983	0.983	0.983	0.983	0.983	0.983	0.983
150.0	0.959	0.959	0.959	0.959	0.959	0.959	0.959
152.5	0.939	0.939	0.939	0.939	0.939	0.939	0.939
155.0	0.954	0.954	0.954	0.954	0.954	0.954	0.954
157.5	0.968	0.968	0.968	0.968	0.968	0.968	0.968
160.0	0.975	0.975	0.975	0.975	0.975	0.975	0.975
162.5	0.982	0.982	0.982	0.982	0.982	0.982	0.982
165.0	0.983	0.983	0.983	0.983	0.983	0.983	0.983
167.5	0.984	0.984	0.984	0.984	0.984	0.984	0.984
170.0	0.984	0.984	0.984	0.984	0.984	0.984	0.984
172.5	0.984	0.984	0.984	0.984	0.984	0.984	0.984
175.0	0.987	0.987	0.987	0.987	0.987	0.987	0.987
177.5	0.983	0.983	0.983	0.983	0.983	0.983	0.983
180.0	0.943	0.943	0.943	0.943	0.943	0.943	0.943

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00689_1 ~ SB1014GV-15L-35KEX-FJ1-CG1-CP6_RMD-MWI.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	50.79	N.A.	12.10
0-30	92.75	N.A.	22.20
0-40	135.93	N.A.	32.50
0-60	263.03	N.A.	62.90
0-80	366.87	N.A.	87.70
0-90	387.21	N.A.	92.50
10-90	370.73	N.A.	88.60
20-40	85.14	N.A.	20.30
20-50	130.72	N.A.	31.20
40-70	193.43	N.A.	46.20
60-80	103.84	N.A.	24.80
70-80	37.51	N.A.	9.00
80-90	20.34	N.A.	4.90
90-110	22.29	N.A.	5.30
90-120	27.19	N.A.	6.50
90-130	29.02	N.A.	6.90
90-150	30.46	N.A.	7.30
90-180	31.27	N.A.	7.50
110-180	8.99	N.A.	2.10
0-180	418.48	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	16.47
10-20	34.31
20-30	41.96
30-40	43.18
40-50	45.58
50-60	81.53
60-70	66.32
70-80	37.51
80-90	20.34
90-100	12.77
100-110	9.51
110-120	4.90
120-130	1.83
130-140	0.83
140-150	0.61
150-160	0.44
160-170	0.28
170-180	0.09

IES INDOOR REPORT

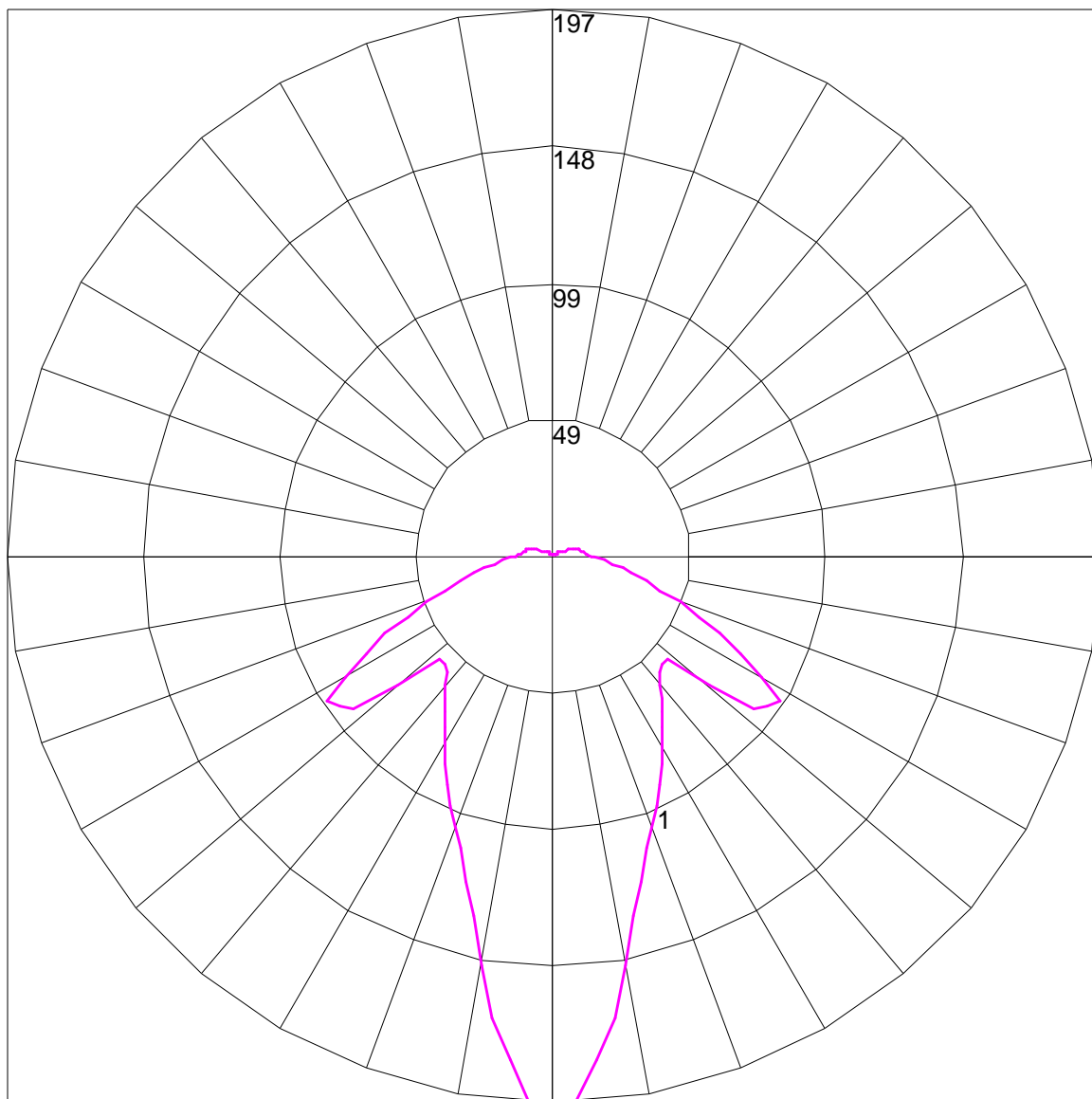
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	88	91	87	83	85	82	79	81	78	76	73
2	94	85	77	71	91	82	75	69	78	72	66	73	68	64	69	65	61	59
3	85	74	64	57	82	71	63	56	67	60	54	63	57	52	60	55	51	48
4	77	64	55	48	74	63	54	47	59	51	45	56	49	44	53	47	42	40
5	71	57	48	40	68	56	47	40	53	45	39	50	43	38	47	41	36	34
6	65	51	42	35	63	50	41	35	47	39	34	45	38	33	43	37	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	23	48	35	27	22	34	27	22	32	26	21	31	25	21	19

POLAR GRAPH



Maximum Candela = 197.34 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180)