

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : SP-00427\_3 ~ TT1010GV-15L35K-EX-FJ1-MB.IES**
**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] SP-00427\_3\_M-15L  
 [TESTLAB] Spectrum Lighting Photometric Lab, VLS-245-981  
 [MANUFAC] Spectrum Lighting  
 [ISSUEDATE] 7/9/2018  
 [UPDATE] 7/25/2018  
 [LUMCAT] TT1010GV-15L-35K-EX-FJ1-MB  
 [LUMINAIRE] Nom. 10" diam shade x 10" H decorative Tech Tier luminaire  
 [OTHER] 3" x 6.5" Frosted Glass Jar  
 [OTHER] Remote driver in canopy  
 [LAMP] N/A, Gen3  
 [LAMPCAT] N/A  
 [OTHER] Total Luminaire Watts is approximate  
 [OTHER] This report generated by Spectrum Lighting, scaled from 27L  
 [\_CCTMULT]27K x 0.971, 30K x 0.985, 40K x 1.03  
 [\_LAMPMULT]27L x 1.75  
 [\_CRI]85+

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	371
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	37
Total Luminaire Watts	10
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	0.78
Spacing Criterion (90-270)	0.76
Spacing Criterion (Diagonal)	0.80
Basic Luminous Shape	Circular w/ Sides
Luminous Length (0-180)	0.86 ft (Diameter)
Luminous Width (90-270)	0.86 ft (Diameter)
Luminous Height	0.33 ft

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00427\_3 ~ TT1010GV-15L35K-EX-FJ1-MB.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	712	696	642
55	545	574	501
65	461	478	422
75	919	966	789
85	1219	1324	1088

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : SP-00427\_3 ~ TT1010GV-15L35K-EX-FJ1-MB.IES**

**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>
<b>0.0</b>	215.305	215.305	215.305	215.305	215.305	215.305	215.305	215.305	215.305	215.305
<b>2.5</b>	215.515	215.261	215.416	215.290	213.236	215.290	215.416	215.261	215.515	214.756
<b>5.0</b>	209.408	209.598	209.740	209.430	208.124	209.430	209.740	209.598	209.408	208.720
<b>7.5</b>	203.038	203.440	203.842	203.189	201.441	203.189	203.842	203.440	203.038	202.381
<b>10.0</b>	193.445	194.479	193.768	193.042	191.487	193.042	193.768	194.479	193.445	192.912
<b>12.5</b>	183.420	184.716	183.325	182.664	179.837	182.664	183.325	184.716	183.420	183.170
<b>15.0</b>	170.451	171.801	169.680	167.361	165.347	167.361	169.680	171.801	170.451	168.608
<b>17.5</b>	156.945	158.109	155.830	152.162	150.449	152.162	155.830	158.109	156.945	154.009
<b>20.0</b>	140.880	142.067	140.830	138.037	134.995	138.037	140.830	142.067	140.880	139.081
<b>22.5</b>	124.823	126.145	125.453	123.538	119.531	123.538	125.453	126.145	124.823	123.948
<b>25.0</b>	108.793	110.503	108.586	106.764	104.057	106.764	108.586	110.503	108.793	107.673
<b>27.5</b>	93.282	95.126	92.493	90.644	89.299	90.644	92.493	95.126	93.282	91.771
<b>30.0</b>	79.126	80.240	78.672	77.335	75.191	77.335	78.672	80.240	79.126	77.319
<b>32.5</b>	66.445	67.013	66.027	64.929	63.569	64.929	66.027	67.013	66.445	64.238
<b>35.0</b>	56.828	56.281	56.106	55.392	53.792	55.392	56.106	56.281	56.828	55.269
<b>37.5</b>	49.206	48.707	48.244	47.316	46.908	47.316	48.244	48.707	49.206	47.852
<b>40.0</b>	44.869	44.958	44.162	42.806	41.749	42.806	44.162	44.958	44.869	44.008
<b>42.5</b>	41.858	42.298	41.146	39.444	38.685	39.444	41.146	42.298	41.858	40.665
<b>45.0</b>	40.626	40.721	39.694	38.333	36.626	38.333	39.694	40.721	40.626	38.237
<b>47.5</b>	38.366	38.640	37.764	36.616	34.324	36.616	37.764	38.640	38.366	35.688
<b>50.0</b>	34.973	36.147	35.250	33.954	31.930	33.954	35.250	36.147	34.973	32.958
<b>52.5</b>	31.790	33.300	32.763	31.220	29.238	31.220	32.763	33.300	31.790	30.147
<b>55.0</b>	28.794	30.221	30.301	28.396	26.462	28.396	30.301	30.221	28.794	27.240
<b>57.5</b>	26.274	27.384	27.651	25.936	24.517	25.936	27.651	27.384	26.274	24.495
<b>60.0</b>	24.103	24.677	24.852	23.856	22.746	23.856	24.852	24.677	24.103	21.910
<b>62.5</b>	22.667	23.134	23.253	22.362	21.268	22.362	23.253	23.134	22.667	20.834
<b>65.0</b>	21.670	22.086	22.448	21.364	19.832	21.364	22.448	22.086	21.670	20.984
<b>67.5</b>	24.407	24.745	24.993	22.731	21.403	22.731	24.993	24.745	24.407	22.782
<b>70.0</b>	28.904	28.612	29.305	25.728	23.205	25.728	29.305	28.612	28.904	25.657
<b>72.5</b>	32.812	33.028	33.788	29.507	27.280	29.507	33.788	33.028	32.812	28.876
<b>75.0</b>	36.501	37.580	38.342	33.729	31.341	33.729	38.342	37.580	36.501	32.275
<b>77.5</b>	38.451	40.159	40.842	36.159	32.703	36.159	40.842	40.159	38.451	34.408
<b>80.0</b>	39.904	42.395	42.667	37.793	33.966	37.793	42.667	42.395	39.904	36.006
<b>82.5</b>	39.209	42.029	42.283	37.654	34.103	37.654	42.283	42.029	39.209	35.428
<b>85.0</b>	38.076	41.390	41.368	36.898	33.987	36.898	41.368	41.390	38.076	34.148
<b>87.5</b>	35.653	39.196	39.068	34.867	32.117	34.867	39.068	39.196	35.653	32.313
<b>90.0</b>	33.048	36.920	36.537	32.499	30.304	32.499	36.537	36.920	33.048	30.341
<b>92.5</b>	30.586	34.150	33.729	30.028	28.763	30.028	33.729	34.150	30.586	28.029
<b>95.0</b>	28.136	31.415	30.892	27.538	26.997	27.538	30.892	31.415	28.136	25.658
<b>97.5</b>	26.432	29.232	28.940	25.525	24.481	25.525	28.940	29.232	26.432	23.762
<b>100.0</b>	24.699	26.963	27.021	23.572	22.078	23.572	27.021	26.963	24.699	21.916
<b>102.5</b>	21.399	23.925	23.770	20.898	19.972	20.898	23.770	23.925	21.399	19.673
<b>105.0</b>	18.105	20.890	20.540	18.181	17.446	18.181	20.540	20.890	18.105	17.408
<b>107.5</b>	14.884	17.871	17.669	13.961	14.063	13.961	17.669	17.871	14.884	14.530
<b>110.0</b>	11.594	14.912	14.836	9.756	10.340	9.756	14.836	14.912	11.594	11.703
<b>112.5</b>	7.838	12.181	12.323	6.069	6.068	6.069	12.323	12.181	7.838	9.724
<b>115.0</b>	4.518	9.723	9.798	2.630	3.079	2.630	9.798	9.723	4.518	7.804
<b>117.5</b>	3.205	8.075	7.212	1.624	1.813	1.624	7.212	8.075	3.205	6.408
<b>120.0</b>	2.158	6.586	4.833	0.747	1.116	0.747	4.833	6.586	2.158	5.077
<b>122.5</b>	1.994	5.461	3.249	0.623	1.036	0.623	3.249	5.461	1.994	4.099
<b>125.0</b>	1.819	4.389	1.889	0.544	0.910	0.544	1.889	4.389	1.819	3.198

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : SP-00427\_3 ~ TT1010GV-15L35K-EX-FJ1-MB.IES**

**CANDELA TABULATION - (Cont.)**

127.5	1.613	3.409	1.171	0.654	0.744	0.654	1.171	3.409	1.613	2.589
130.0	1.412	2.524	0.674	0.724	0.734	0.724	0.674	2.524	1.412	2.036
132.5	1.222	1.775	0.680	0.665	0.839	0.665	0.680	1.775	1.222	1.649
135.0	1.022	1.237	0.641	0.633	0.817	0.633	0.641	1.237	1.022	1.265
137.5	0.808	0.949	0.521	0.662	0.720	0.662	0.521	0.949	0.808	0.885
140.0	0.733	0.789	0.488	0.696	0.701	0.696	0.488	0.789	0.733	0.652
142.5	0.841	0.752	0.577	0.738	0.717	0.738	0.577	0.752	0.841	0.681
145.0	0.860	0.671	0.598	0.744	0.683	0.744	0.598	0.671	0.860	0.672
147.5	0.782	0.554	0.538	0.695	0.630	0.695	0.538	0.554	0.782	0.606
150.0	0.676	0.548	0.547	0.686	0.687	0.686	0.547	0.548	0.676	0.570
152.5	0.548	0.613	0.622	0.725	0.775	0.725	0.622	0.613	0.548	0.570
155.0	0.575	0.650	0.630	0.736	0.713	0.736	0.630	0.650	0.575	0.592
157.5	0.712	0.673	0.587	0.717	0.621	0.717	0.587	0.673	0.712	0.635
160.0	0.740	0.704	0.637	0.731	0.651	0.731	0.637	0.704	0.740	0.650
162.5	0.721	0.728	0.725	0.763	0.656	0.763	0.725	0.728	0.721	0.649
165.0	0.579	0.673	0.741	0.717	0.555	0.717	0.741	0.673	0.579	0.704
167.5	0.531	0.617	0.704	0.727	0.603	0.727	0.704	0.617	0.531	0.687
170.0	0.576	0.573	0.609	0.780	0.712	0.780	0.609	0.573	0.576	0.595
172.5	0.643	0.585	0.488	0.656	0.817	0.656	0.488	0.585	0.643	0.566
175.0	0.665	0.756	0.533	0.513	0.857	0.513	0.533	0.756	0.665	0.654
177.5	0.647	0.599	0.713	0.674	0.728	0.674	0.713	0.599	0.647	0.621
180.0	0.626	0.626	0.626	0.626	0.626	0.626	0.626	0.626	0.626	0.626

**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	215.305	215.305	215.305	215.305	215.305	215.305	215.305
2.5	215.758	214.864	212.608	214.864	215.758	214.756	215.515
5.0	209.443	208.516	207.113	208.516	209.443	208.720	209.408
7.5	202.758	201.632	200.353	201.632	202.758	202.381	203.038
10.0	192.759	191.954	191.136	191.954	192.759	192.912	193.445
12.5	182.182	181.531	181.403	181.531	182.182	183.170	183.420
15.0	168.262	168.365	168.114	168.365	168.262	168.608	170.451
17.5	154.055	154.592	154.338	154.592	154.055	154.009	156.945
20.0	138.689	139.132	138.708	139.132	138.689	139.081	140.880
22.5	122.946	122.978	122.929	122.978	122.946	123.948	124.823
25.0	106.084	105.293	105.097	105.293	106.084	107.673	108.793
27.5	90.089	88.820	87.359	88.820	90.089	91.771	93.282
30.0	76.129	74.458	74.151	74.458	76.129	77.319	79.126
32.5	63.669	62.361	61.355	62.361	63.669	64.238	66.445
35.0	53.998	53.495	53.576	53.495	53.998	55.269	56.828
37.5	47.162	47.517	46.565	47.517	47.162	47.852	49.206
40.0	44.538	44.892	44.765	44.892	44.538	44.008	44.869
42.5	42.220	42.919	43.079	42.919	42.220	40.665	41.858
45.0	40.281	41.557	41.925	41.557	40.281	38.237	40.626
47.5	37.626	39.156	40.293	39.156	37.626	35.688	38.366
50.0	34.258	35.947	37.035	35.947	34.258	32.958	34.973
52.5	31.085	32.866	33.830	32.866	31.085	30.147	31.790
55.0	28.068	29.864	30.759	29.864	28.068	27.240	28.794
57.5	25.585	27.486	27.913	27.486	25.585	24.495	26.274
60.0	23.459	25.418	25.526	25.418	23.459	21.910	24.103
62.5	22.107	24.451	24.556	24.451	22.107	20.834	22.667
65.0	21.169	23.926	25.923	23.926	21.169	20.984	21.670

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : SP-00427\_3 ~ TT1010GV-15L35K-EX-FJ1-MB.IES**

**CANDELA TABULATION - (Cont.)**

67.5	23.410	27.046	28.351	27.046	23.410	22.782	24.407
70.0	26.984	31.289	32.187	31.289	26.984	25.657	28.904
72.5	30.422	35.215	35.890	35.215	30.422	28.876	32.812
75.0	33.813	39.070	39.450	39.070	33.813	32.275	36.501
77.5	36.156	41.701	41.988	41.701	36.156	34.408	38.451
80.0	38.241	44.140	43.614	44.140	38.241	36.006	39.904
82.5	37.283	43.405	43.644	43.405	37.283	35.428	39.209
85.0	35.803	42.377	42.525	42.377	35.803	34.148	38.076
87.5	33.058	39.255	40.222	39.255	33.058	32.313	35.653
90.0	30.172	36.062	37.227	36.062	30.172	30.341	33.048
92.5	28.020	33.028	34.357	33.028	28.020	28.029	30.586
95.0	25.905	30.058	31.547	30.058	25.905	25.658	28.136
97.5	24.385	27.973	29.349	27.973	24.385	23.762	26.432
100.0	22.789	25.759	27.376	25.759	22.789	21.916	24.699
102.5	19.853	22.583	24.120	22.583	19.853	19.673	21.399
105.0	16.970	19.227	20.499	19.227	16.970	17.408	18.105
107.5	14.545	14.962	15.941	14.962	14.545	14.530	14.884
110.0	12.146	10.724	11.192	10.724	12.146	11.703	11.594
112.5	9.889	6.580	6.922	6.580	9.889	9.724	7.838
115.0	7.689	3.219	2.714	3.219	7.689	7.804	4.518
117.5	5.710	1.990	1.594	1.990	5.710	6.408	3.205
120.0	3.939	1.077	0.711	1.077	3.939	5.077	2.158
122.5	2.776	0.850	0.753	0.850	2.776	4.099	1.994
125.0	1.764	0.690	0.808	0.690	1.764	3.198	1.819
127.5	1.099	0.647	0.698	0.647	1.099	2.589	1.613
130.0	0.645	0.600	0.598	0.600	0.645	2.036	1.412
132.5	0.574	0.547	0.604	0.547	0.574	1.649	1.222
135.0	0.543	0.564	0.628	0.564	0.543	1.265	1.022
137.5	0.567	0.662	0.773	0.662	0.567	0.885	0.808
140.0	0.585	0.670	0.854	0.670	0.585	0.652	0.733
142.5	0.594	0.596	0.652	0.596	0.594	0.681	0.841
145.0	0.580	0.591	0.497	0.591	0.580	0.672	0.860
147.5	0.544	0.638	0.501	0.638	0.544	0.606	0.782
150.0	0.535	0.660	0.540	0.660	0.535	0.570	0.676
152.5	0.548	0.668	0.672	0.668	0.548	0.570	0.548
155.0	0.528	0.589	0.743	0.589	0.528	0.592	0.575
157.5	0.487	0.469	0.694	0.469	0.487	0.635	0.712
160.0	0.603	0.519	0.677	0.519	0.603	0.650	0.740
162.5	0.752	0.600	0.691	0.600	0.752	0.649	0.721
165.0	0.543	0.589	0.753	0.589	0.543	0.704	0.579
167.5	0.505	0.655	0.793	0.655	0.505	0.687	0.531
170.0	0.599	0.697	0.768	0.697	0.599	0.595	0.576
172.5	0.612	0.528	0.672	0.528	0.612	0.566	0.643
175.0	0.515	0.687	0.705	0.687	0.515	0.654	0.665
177.5	0.591	0.673	0.567	0.673	0.591	0.621	0.647
180.0	0.626	0.626	0.626	0.626	0.626	0.626	0.626

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00427\_3 ~ TT1010GV-15L35K-EX-FJ1-MB.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	66.36	N.A.	17.90
0-30	115.35	N.A.	31.10
0-40	150.80	N.A.	40.70
0-60	207.43	N.A.	55.90
0-80	268.12	N.A.	72.30
0-90	309.32	N.A.	83.40
10-90	289.84	N.A.	78.20
20-40	84.45	N.A.	22.80
20-50	115.02	N.A.	31.00
40-70	80.27	N.A.	21.60
60-80	60.69	N.A.	16.40
70-80	37.05	N.A.	10.00
80-90	41.20	N.A.	11.10
90-110	51.25	N.A.	13.80
90-120	58.01	N.A.	15.60
90-130	59.83	N.A.	16.10
90-150	60.91	N.A.	16.40
90-180	61.45	N.A.	16.60
110-180	10.20	N.A.	2.80
0-180	370.77	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	19.48
10-20	46.88
20-30	49.00
30-40	35.45
40-50	30.57
50-60	26.05
60-70	23.64
70-80	37.05
80-90	41.20
90-100	31.54
100-110	19.71
110-120	6.76
120-130	1.82
130-140	0.67
140-150	0.41
150-160	0.29
160-170	0.19
170-180	0.06

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : SP-00427\_3 ~ TT1010GV-15L35K-EX-FJ1-MB.IES

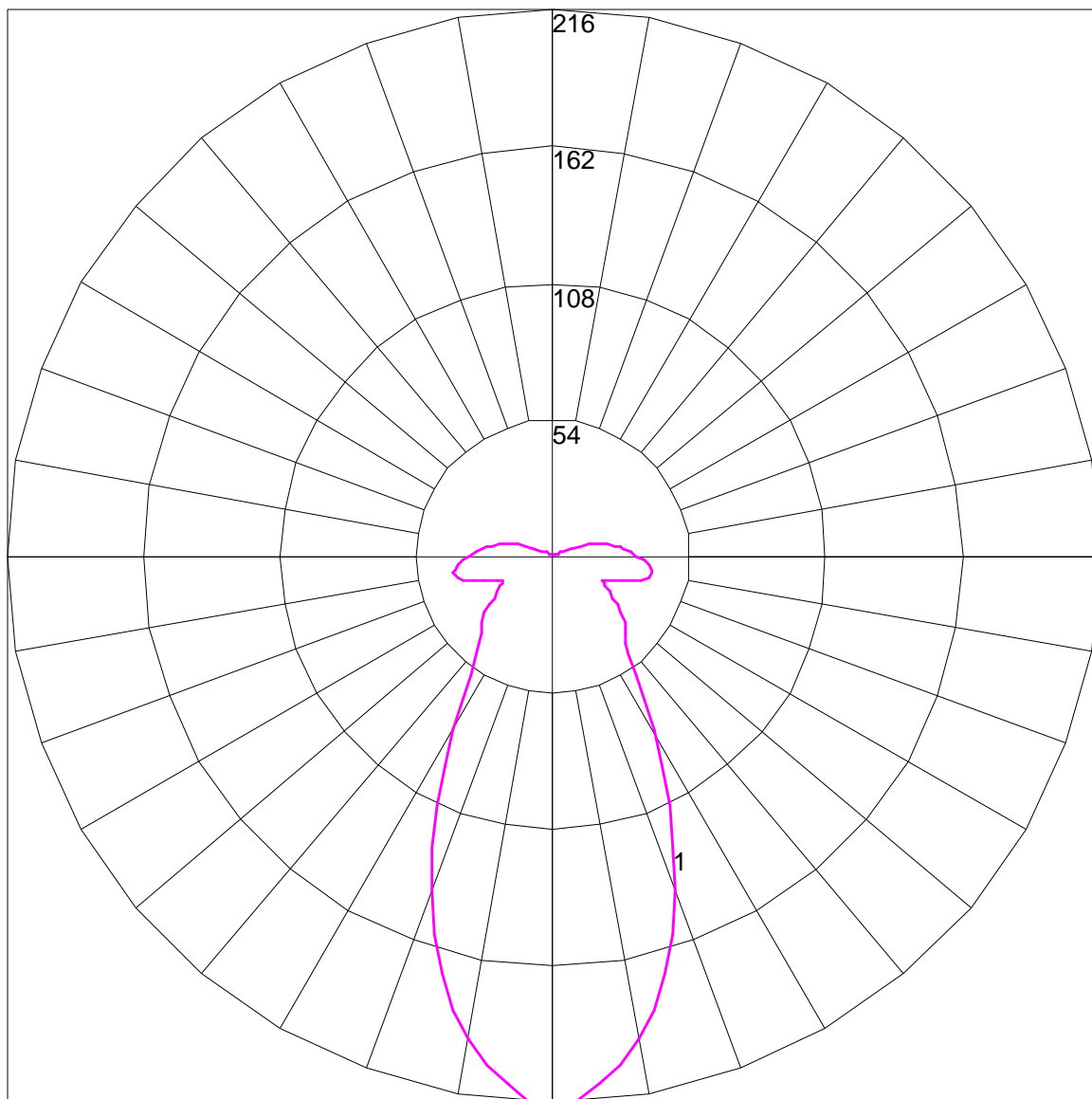
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	115	115	115	115	110	110	110	110	102	102	102	94	94	94	87	87	87	83
1	102	95	90	85	97	91	86	82	84	80	76	77	74	71	71	68	66	63
2	92	83	75	69	88	80	73	67	73	68	63	68	63	59	62	59	55	52
3	85	74	65	58	81	71	63	57	66	59	54	61	55	51	56	52	48	45
4	78	66	58	51	75	64	56	50	59	53	47	55	49	45	51	46	42	40
5	73	60	51	45	70	58	50	44	54	47	42	51	45	40	47	42	38	36
6	68	55	47	40	65	53	45	40	50	43	38	47	41	36	44	39	35	32
7	64	51	42	37	61	49	41	36	46	39	35	43	38	33	41	36	32	30
8	60	47	39	33	57	46	38	33	43	36	32	41	35	31	38	33	29	27
9	56	44	36	31	54	43	35	30	40	34	29	38	32	28	36	31	27	25
10	53	41	33	29	51	40	33	28	38	32	27	36	30	26	34	29	26	24

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : SP-00427\_3 ~ TT1010GV-15L35K-EX-FJ1-MB.IES

POLAR GRAPH



Maximum Candela = 215.758 Located At Horizontal Angle = 225, Vertical Angle = 2.5  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)