

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00645 ~ OR1917GV-27L35K-EX-TF2.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00645\_1\_M-27L

[TESTLAB] Spectrum Lighting Photometric Lab VLS-245-981

[MANUFAC] Spectrum Lighting

[ISSUEDATE] 6/28/2018

[UPDATE] 7/5/2018

[LUMCAT] OR1917GV-27L-35K-EX-TF2

[LUMINAIRE] Nom. 19" diam x 17" H, RLM Classics luminaire

[OTHER] Light distribution: 95% down / 5% uplight

[OTHER] Regressed, 6" diam. low profile frosted glass diffuser

[OTHER] Reflector: Matte White interior finish

[OTHER] Open aperture reflector

[OTHER] Beam Angle: 68 degrees

[OTHER] 95% Downlight; 5% Uplight

[LAMP] N/A, Gen3

[LAMPCAT] N/A

[OTHER] Total Luminaire Watts is approximate

[OTHER] This report generated by Spectrum Lighting, scaled from 45L

[\_CCTMULT]27K x 0.971, 30K x 0.985, 40K x 1.03

[\_LAMPMULT]45L x 1.0, 37L x 0.792, 27L x 0.54, 15L x 0.31

[\_CRI]85+

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1636
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	91
Total Luminaire Watts	18
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.94
Spacing Criterion (90-270)	0.92
Spacing Criterion (Diagonal)	0.98
Basic Luminous Shape	Circular w/ Sides
Luminous Length (0-180)	1.56 ft (Diameter)
Luminous Width (90-270)	1.56 ft (Diameter)
Luminous Height	0.13 ft

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00645 ~ OR1917GV-27L35K-EX-TF2.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1098	1074	1082
55	1165	1185	1267
65	1858	1831	2067
75	1810	1730	1950
85	1537	1452	1602

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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>
<b>0.0</b>	1110.257	1110.257	1110.257	1110.257	1110.257	1110.257	1110.257	1110.257	1110.257	1110.257
<b>2.5</b>	1109.587	1112.681	1112.571	1110.947	1107.499	1069.818	1073.934	1083.430	1089.228	1096.022
<b>5.0</b>	1061.448	1072.008	1055.498	1064.304	1054.911	1018.299	1032.579	1022.877	1038.768	1037.377
<b>7.5</b>	1008.769	1008.685	996.755	997.281	997.251	963.011	968.687	963.352	973.873	978.529
<b>10.0</b>	945.286	949.235	933.414	936.844	931.707	904.815	909.930	906.829	916.896	919.292
<b>12.5</b>	887.260	892.320	875.143	880.153	874.235	855.253	860.232	854.325	864.141	866.232
<b>15.0</b>	843.455	846.009	832.255	835.709	830.336	812.984	816.937	815.045	822.984	826.212
<b>17.5</b>	804.822	807.081	794.107	798.804	793.591	781.120	785.701	779.668	788.531	791.375
<b>20.0</b>	780.722	779.003	771.562	771.968	769.670	758.590	758.854	758.268	763.697	768.263
<b>22.5</b>	758.147	758.956	749.826	751.731	748.265	738.995	740.987	737.634	744.787	746.591
<b>25.0</b>	740.296	739.404	731.120	732.521	731.836	722.195	722.342	719.997	725.656	728.479
<b>27.5</b>	718.540	720.252	708.486	714.039	709.845	695.959	701.963	696.517	706.375	703.676
<b>30.0</b>	683.364	680.723	669.742	670.758	676.085	659.903	661.548	646.645	654.724	660.732
<b>32.5</b>	625.951	623.667	611.700	608.540	610.301	574.254	573.233	579.886	579.795	590.943
<b>35.0</b>	485.141	515.823	466.394	495.973	471.922	433.840	470.243	428.529	463.581	442.569
<b>37.5</b>	352.892	361.608	330.440	342.566	345.091	315.317	328.831	289.278	315.818	309.993
<b>40.0</b>	256.672	252.890	243.999	240.370	247.388	222.836	213.522	219.804	221.274	228.531
<b>42.5</b>	173.528	189.572	167.393	182.933	170.562	162.743	173.339	157.573	171.223	161.324
<b>45.0</b>	152.706	151.098	149.250	149.138	150.462	144.183	141.589	144.118	143.360	145.394
<b>47.5</b>	134.698	138.936	133.241	137.602	135.087	133.622	136.108	132.657	135.190	133.011
<b>50.0</b>	131.620	132.041	131.636	132.265	133.579	133.960	133.941	136.622	133.926	134.578
<b>52.5</b>	129.923	131.158	131.064	133.124	135.484	140.551	143.225	141.769	139.169	138.684
<b>55.0</b>	136.710	135.608	139.122	138.754	148.696	156.339	154.058	158.053	148.978	154.037
<b>57.5</b>	144.352	146.613	147.544	149.596	162.408	171.601	170.862	173.864	163.489	168.473
<b>60.0</b>	158.175	158.041	159.567	159.885	177.922	186.029	185.355	184.039	173.546	178.287
<b>62.5</b>	170.600	170.024	170.532	169.534	190.354	194.314	190.060	193.067	178.738	185.588
<b>65.0</b>	171.319	174.658	168.863	171.785	190.621	192.198	191.595	184.871	176.173	178.735
<b>67.5</b>	170.554	168.942	166.326	164.933	187.481	184.014	177.922	176.146	164.609	170.208
<b>70.0</b>	153.694	157.928	148.887	152.917	168.825	164.701	162.998	155.898	149.333	150.693
<b>72.5</b>	136.592	138.856	131.335	133.943	149.280	143.984	141.197	135.624	129.345	131.139
<b>75.0</b>	116.264	119.196	111.106	114.782	125.243	120.473	119.581	114.353	110.073	111.271
<b>77.5</b>	96.138	98.586	90.988	95.353	102.028	98.588	99.118	93.131	91.765	91.710
<b>80.0</b>	79.499	80.033	75.176	77.704	83.604	80.164	79.335	76.573	74.818	74.960
<b>82.5</b>	63.063	65.089	59.382	62.769	66.106	64.106	64.691	60.015	59.851	58.736
<b>85.0</b>	52.668	52.669	49.769	50.748	54.912	53.544	50.968	49.814	48.210	48.845
<b>87.5</b>	42.414	45.050	40.157	43.602	44.595	44.945	45.342	39.688	41.794	39.428
<b>90.0</b>	39.994	39.187	37.513	37.943	41.164	41.338	39.943	37.487	36.655	37.224
<b>92.5</b>	37.572	36.894	34.954	34.936	37.679	37.595	36.913	35.503	33.656	34.937
<b>95.0</b>	34.282	34.207	31.305	31.823	33.677	33.485	33.841	32.217	30.759	30.976
<b>97.5</b>	30.994	30.649	27.622	28.509	29.774	29.646	30.154	28.875	28.051	27.054
<b>100.0</b>	27.498	27.271	24.967	25.392	27.066	26.642	26.507	25.264	25.220	24.688
<b>102.5</b>	23.998	24.325	22.366	22.688	24.334	23.698	23.613	21.635	22.148	22.320
<b>105.0</b>	20.783	21.464	20.111	20.203	21.220	20.956	20.726	19.659	19.559	19.627
<b>107.5</b>	17.579	18.821	17.881	18.210	18.133	18.312	18.055	17.822	17.989	16.934
<b>110.0</b>	14.942	16.110	15.981	16.277	15.643	16.027	15.400	13.848	15.515	14.958
<b>112.5</b>	12.335	13.210	14.111	14.490	13.146	13.784	13.971	9.655	10.966	12.986
<b>115.0</b>	7.753	10.033	12.059	12.791	10.334	11.711	12.542	6.047	6.856	8.048
<b>117.5</b>	3.018	5.984	9.987	11.327	7.541	9.798	9.793	2.517	3.853	3.026
<b>120.0</b>	1.813	2.621	8.105	9.923	6.808	8.621	7.042	1.372	1.485	1.784
<b>122.5</b>	0.941	1.610	6.248	8.699	6.076	7.366	5.300	0.585	0.835	0.708
<b>125.0</b>	0.764	0.834	4.406	7.224	5.589	5.721	3.576	0.585	0.377	0.691

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**CANDELA TABULATION - (Cont.)**

127.5	0.669	0.981	2.566	4.943	5.105	4.066	2.308	0.717	0.498	0.737
130.0	0.645	1.064	1.875	2.897	3.341	2.345	1.058	0.696	0.595	0.674
132.5	0.633	0.873	1.391	1.693	1.540	0.824	0.888	0.643	0.606	0.602
135.0	0.701	0.716	1.013	0.759	1.136	0.685	0.779	0.630	0.612	0.625
137.5	0.781	0.720	0.655	0.884	0.795	0.558	0.740	0.626	0.601	0.658
140.0	0.845	0.720	0.690	0.966	0.932	0.525	0.707	0.689	0.588	0.725
142.5	0.905	0.701	0.813	0.858	1.102	0.504	0.641	0.768	0.566	0.796
145.0	0.902	0.690	0.761	0.780	0.801	0.609	0.572	0.705	0.577	0.733
147.5	0.887	0.718	0.664	0.856	0.461	0.705	0.632	0.600	0.733	0.650
150.0	0.798	0.746	0.661	0.913	0.564	0.694	0.707	0.571	0.835	0.617
152.5	0.691	0.775	0.685	0.862	0.714	0.691	0.681	0.565	0.669	0.591
155.0	0.814	0.795	0.865	0.808	0.637	0.797	0.640	0.629	0.568	0.740
157.5	0.992	0.758	1.090	0.743	0.533	0.884	0.558	0.713	0.761	0.918
160.0	1.088	0.772	0.868	0.707	0.741	0.864	0.502	0.720	0.905	0.735
162.5	1.120	0.899	0.649	0.733	0.912	0.759	0.726	0.699	0.955	0.599
165.0	0.926	0.955	0.721	0.725	0.977	0.532	0.770	0.586	0.925	0.676
167.5	0.804	0.961	0.771	0.723	0.886	0.614	0.611	0.577	0.827	0.842
170.0	0.773	0.908	0.798	0.814	0.821	0.656	0.656	0.610	0.611	0.914
172.5	0.888	0.642	0.798	0.653	0.875	0.677	0.620	0.618	0.619	0.780
175.0	1.055	0.794	0.774	0.857	0.809	0.800	0.712	0.726	0.828	0.840
177.5	0.793	0.791	0.588	0.885	0.681	0.756	0.692	0.744	0.624	0.869
180.0	0.841	0.841	0.841	0.841	0.841	0.841	0.841	0.841	0.841	0.841

**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	1110.257	1110.257	1110.257	1110.257	1110.257	1110.257	1110.257
2.5	1107.736	1106.312	1103.879	1082.276	1088.425	1105.522	1109.587
5.0	1059.680	1052.772	1060.629	1052.265	1048.989	1065.765	1061.448
7.5	996.312	997.492	997.130	996.244	997.758	1008.829	1008.769
10.0	939.308	938.353	940.626	942.814	938.204	952.041	945.286
12.5	885.275	884.422	889.695	893.543	888.432	895.318	887.260
15.0	843.147	843.121	847.754	850.139	846.221	851.344	843.455
17.5	807.069	806.963	813.533	816.769	812.334	813.429	804.822
20.0	780.904	784.215	786.924	788.511	785.279	785.801	780.722
22.5	760.120	763.261	767.251	769.579	762.855	763.403	758.147
25.0	741.085	747.450	748.422	750.757	744.463	743.119	740.296
27.5	723.078	726.180	730.420	732.159	719.937	724.020	718.540
30.0	678.956	687.630	686.293	696.799	689.567	683.445	683.364
32.5	618.215	623.643	614.549	625.321	609.798	630.030	625.951
35.0	500.558	472.152	501.926	528.429	480.091	515.479	485.141
37.5	344.362	333.252	343.437	371.796	358.948	361.396	352.892
40.0	243.056	243.792	233.136	244.126	246.990	257.928	256.672
42.5	181.868	167.736	181.089	190.962	175.155	189.813	173.528
45.0	148.247	149.533	147.029	149.216	150.382	152.716	152.706
47.5	136.355	134.310	136.408	139.129	135.261	138.649	134.698
50.0	132.979	133.309	131.111	131.659	132.162	131.729	131.620
52.5	136.731	134.547	133.189	132.185	133.002	130.532	129.923
55.0	146.826	148.377	140.055	134.791	139.131	135.454	136.710
57.5	162.726	161.918	154.191	144.442	147.349	145.655	144.352
60.0	174.119	173.628	165.702	153.114	158.596	156.967	158.175
62.5	181.134	183.325	172.973	158.168	165.084	169.295	170.600
65.0	179.900	178.441	173.931	160.509	164.233	172.417	171.319

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**CANDELA TABULATION - (Cont.)**

67.5	170.161	172.073	164.019	151.621	158.009	166.457	170.554
70.0	155.255	152.216	150.098	141.148	142.823	154.306	153.694
72.5	134.528	132.283	128.569	123.261	126.264	135.577	136.592
75.0	114.515	111.521	107.883	105.510	107.226	116.376	116.264
77.5	95.355	91.065	88.905	88.455	89.198	96.643	96.138
80.0	78.004	74.707	71.715	71.941	73.122	78.735	79.499
82.5	62.947	58.702	58.403	58.673	58.803	63.043	63.063
85.0	51.152	49.787	47.136	46.283	48.167	50.985	52.668
87.5	43.895	41.071	40.801	40.096	39.826	43.684	42.414
90.0	38.354	38.307	35.573	34.377	36.728	38.609	39.994
92.5	35.349	35.532	33.219	32.469	33.589	36.634	37.572
95.0	32.212	32.138	30.799	30.472	30.353	33.815	34.282
97.5	28.864	28.745	28.200	27.545	27.294	29.707	30.994
100.0	25.652	26.070	25.544	24.660	24.713	26.166	27.498
102.5	22.674	23.398	22.710	22.301	22.089	23.546	23.998
105.0	19.979	20.387	19.986	19.941	19.343	20.862	20.783
107.5	17.808	17.370	17.633	17.551	16.884	18.069	17.579
110.0	15.645	15.188	15.223	15.199	15.352	14.981	14.942
112.5	13.496	13.039	12.598	13.893	13.590	11.329	12.335
115.0	11.290	11.532	10.068	12.583	10.998	7.765	7.753
117.5	8.956	10.063	7.943	11.044	8.497	4.379	3.018
120.0	6.929	8.783	6.074	9.506	6.366	1.883	1.813
122.5	5.615	7.518	5.418	8.204	4.377	1.329	0.941
125.0	4.201	5.538	4.694	6.902	3.014	0.908	0.764
127.5	2.532	3.487	3.607	4.628	1.808	0.809	0.669
130.0	1.216	2.192	2.532	2.337	1.404	0.736	0.645
132.5	0.894	0.989	1.540	1.590	1.030	0.728	0.633
135.0	0.670	0.804	0.663	0.893	0.834	0.719	0.701
137.5	0.745	0.760	0.608	0.800	0.686	0.704	0.781
140.0	0.795	0.700	0.558	0.735	0.851	0.704	0.845
142.5	0.762	0.638	0.549	0.800	0.985	0.755	0.905
145.0	0.745	0.598	0.543	0.874	0.883	0.809	0.902
147.5	0.788	0.562	0.563	0.815	0.796	0.867	0.887
150.0	0.818	0.571	0.579	0.745	0.843	0.929	0.798
152.5	0.796	0.589	0.538	0.886	0.893	1.005	0.691
155.0	0.782	0.588	0.509	1.050	0.969	1.043	0.814
157.5	0.802	0.583	0.600	0.914	1.024	0.948	0.992
160.0	0.786	0.553	0.671	0.779	0.976	0.940	1.088
162.5	0.709	0.549	0.683	0.821	0.875	1.074	1.120
165.0	0.685	0.655	0.663	0.856	0.706	0.989	0.926
167.5	0.698	0.687	0.611	0.879	0.848	0.861	0.804
170.0	0.766	0.718	0.482	0.724	0.883	0.866	0.773
172.5	0.703	0.758	0.482	0.867	0.792	0.762	0.888
175.0	0.892	0.521	0.578	0.852	0.743	0.884	1.055
177.5	0.717	0.557	0.689	0.818	0.832	0.919	0.793
180.0	0.841	0.841	0.841	0.841	0.841	0.841	0.841

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	332.64	N.A.	20.30
0-30	670.25	N.A.	41.00
0-40	959.67	N.A.	58.70
0-60	1215.63	N.A.	74.30
0-80	1506.52	N.A.	92.10
0-90	1564.2	N.A.	95.60
10-90	1467.82	N.A.	89.70
20-40	627.03	N.A.	38.30
20-50	750.75	N.A.	45.90
40-70	425.98	N.A.	26.00
60-80	290.89	N.A.	17.80
70-80	120.86	N.A.	7.40
80-90	57.68	N.A.	3.50
90-110	56.74	N.A.	3.50
90-120	66.96	N.A.	4.10
90-130	70.11	N.A.	4.30
90-150	71.29	N.A.	4.40
90-180	71.93	N.A.	4.40
110-180	15.19	N.A.	0.90
0-180	1636.13	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	96.38
10-20	236.26
20-30	337.61
30-40	289.42
40-50	123.72
50-60	132.24
60-70	170.03
70-80	120.86
80-90	57.68
90-100	35.09
100-110	21.65
110-120	10.22
120-130	3.16
130-140	0.72
140-150	0.46
150-160	0.35
160-170	0.22
170-180	0.07

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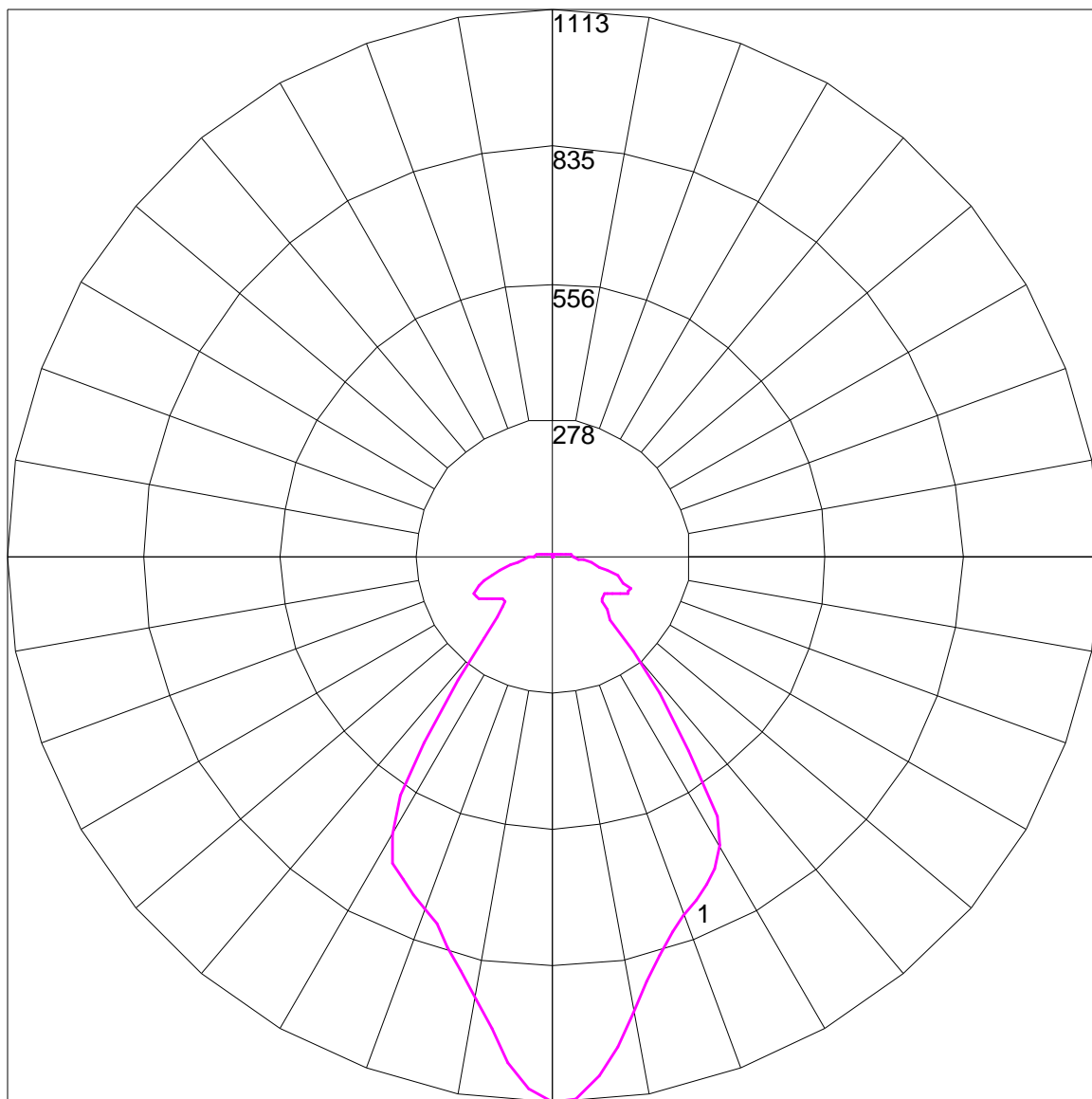
**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	118	118	118	118	115	115	115	115	109	109	109	103	103	103	98	98	98	96
1	108	103	99	95	105	100	97	93	95	92	89	91	88	86	86	84	83	80
2	99	91	85	79	96	89	83	78	85	80	76	81	77	73	77	74	71	69
3	91	82	74	68	89	80	73	67	76	70	65	73	68	64	70	66	62	60
4	85	74	66	60	82	72	65	59	69	63	58	66	61	56	64	59	55	53
5	79	67	59	53	77	66	58	52	63	57	52	61	55	51	59	54	50	48
6	74	62	54	48	72	61	53	47	58	52	47	56	50	46	54	49	45	43
7	69	57	49	43	67	56	48	43	54	47	42	52	46	42	51	45	41	39
8	65	53	45	40	63	52	45	39	50	44	39	49	43	39	47	42	38	36
9	61	49	42	37	60	48	41	36	47	41	36	46	40	36	44	39	35	34
10	58	46	39	34	57	45	38	34	44	38	33	43	37	33	42	37	33	31

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : SP-00645 ~ OR1917GV-27L35K-EX-TF2.IES

POLAR GRAPH



Maximum Candela = 1112.681 Located At Horizontal Angle = 22.5, Vertical Angle = 2.5  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)