

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00667 ~ OR1514GV-27L35K-EX-TF1.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00667

[TESTLAB] Spectrum Photometric Lab VLS-245-981

[MANUFAC] Spectrum Lighting

[ISSUE DATE] 4/20/2018

[UPDATE] 4/26/2018

[LUMCAT] OR1514GV-27L-35K-EX-TF1-MWI

[LUMINAIRE] Nom. 15" diam x 13.8" H, Open reflector 95% down / 5% uplight

[OTHER] Regressed, 4" diam. low profile frosted glass diffuser

[OTHER] Reflector: Matte White interior finish

[OTHER] Beam Angle: 63 degrees

[OTHER] 95% Downlight; 5% Uplight

[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+

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1684
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	94
Total Luminaire Watts	18
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.90
Spacing Criterion (90-270)	0.92
Spacing Criterion (Diagonal)	0.94
Basic Luminous Shape	Circular w/ Sides
Luminous Length (0-180)	1.21 ft (Diameter)
Luminous Width (90-270)	1.21 ft (Diameter)
Luminous Height	0.13 ft

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00667 ~ OR1514GV-27L35K-EX-TF1.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1953	1978	2023
55	2030	2021	1977
65	2473	2463	2353
75	2502	2582	2433
85	2486	2723	2522

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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	1250.693	1250.693	1250.693	1250.693	1250.693	1250.693	1250.693	1250.693	1250.693	1250.693
2.5	1236.335	1244.298	1243.435	1254.715	1259.930	1245.523	1259.331	1241.134	1248.867	1234.434
5.0	1187.090	1192.339	1195.994	1206.906	1212.346	1204.961	1205.698	1200.350	1197.576	1188.872
7.5	1125.618	1139.204	1141.621	1158.276	1164.629	1146.204	1152.043	1142.123	1145.083	1131.515
10.0	1068.757	1083.058	1087.279	1104.071	1108.310	1090.090	1097.250	1087.338	1089.517	1077.707
12.5	1013.557	1029.097	1032.943	1050.439	1052.165	1035.733	1042.533	1034.737	1035.432	1025.176
15.0	966.067	980.514	984.164	1000.445	1004.733	983.701	990.543	983.663	985.126	974.307
17.5	921.242	933.877	936.186	951.151	957.367	933.186	938.795	933.555	936.403	924.023
20.0	881.279	892.013	892.374	906.276	912.311	888.889	895.541	888.904	891.563	880.747
22.5	842.928	852.121	849.119	862.343	867.447	848.518	852.419	847.593	848.986	839.884
25.0	806.576	816.887	812.247	823.980	829.239	808.104	812.881	806.161	811.754	800.744
27.5	770.885	774.042	776.223	782.164	790.142	767.663	771.639	764.656	764.568	762.172
30.0	686.885	713.875	698.627	721.173	727.181	684.219	689.355	676.882	693.930	669.411
32.5	587.598	623.220	615.920	645.927	660.066	574.587	603.852	561.789	595.833	559.161
35.0	450.892	463.376	468.630	491.870	502.258	446.894	448.578	433.687	435.418	427.394
37.5	302.619	329.266	314.036	349.599	348.036	308.566	298.291	298.161	303.938	288.842
40.0	232.741	251.446	246.803	268.719	270.978	229.638	238.900	222.959	235.753	222.772
42.5	186.529	191.298	189.387	197.118	196.688	185.598	181.893	181.559	182.484	178.582
45.0	166.583	168.425	168.726	172.372	172.559	161.646	164.887	160.181	161.747	159.623
47.5	154.219	152.419	151.840	151.310	149.757	149.098	148.746	149.817	147.251	148.099
50.0	149.801	150.858	148.911	148.290	147.682	143.967	146.031	145.461	145.882	144.524
52.5	147.622	148.755	147.282	145.414	145.610	142.905	143.372	144.297	144.613	143.235
55.0	147.436	145.552	146.801	143.199	143.584	142.590	141.497	143.285	143.553	143.236
57.5	147.798	144.468	146.426	141.898	141.741	142.683	139.802	142.352	143.562	143.590
60.0	148.300	147.601	147.154	144.714	142.396	141.782	140.402	141.816	145.731	144.105
62.5	148.839	147.896	147.975	146.275	142.498	140.355	140.557	141.482	145.041	144.663
65.0	142.867	142.648	142.264	142.335	135.931	133.667	135.357	136.637	138.766	138.202
67.5	135.233	135.853	136.042	136.900	129.089	124.293	129.645	129.564	130.977	129.908
70.0	123.349	126.137	125.213	125.243	118.948	113.628	118.393	118.997	120.287	117.685
72.5	110.409	116.759	114.045	114.240	108.919	102.306	107.192	106.738	108.900	104.484
75.0	102.952	108.004	106.256	105.888	100.094	93.381	96.549	95.975	96.202	92.406
77.5	96.792	98.348	98.684	96.609	91.039	85.634	85.875	85.922	83.966	80.606
80.0	83.566	87.055	86.024	83.674	79.635	74.700	74.899	74.549	72.571	70.075
82.5	68.714	75.329	73.062	71.079	68.392	62.256	64.109	62.572	61.687	59.843
85.0	57.866	62.847	63.393	59.763	58.711	53.296	54.972	54.456	51.714	52.204
87.5	47.914	53.438	53.904	50.223	49.642	45.982	46.614	48.075	44.814	45.146
90.0	44.955	49.330	50.512	47.194	45.998	42.644	45.143	45.719	43.297	43.790
92.5	43.477	45.719	47.401	44.466	42.536	41.117	43.528	45.136	41.778	43.704
95.0	40.742	42.950	44.311	42.814	40.611	38.667	40.744	42.417	40.256	40.289
97.5	37.741	40.234	41.223	40.689	38.532	35.810	37.838	38.794	37.941	36.170
100.0	33.899	37.607	37.429	36.950	35.206	31.927	34.006	34.887	34.307	32.527
102.5	29.888	34.439	33.610	33.310	31.786	27.595	30.263	30.860	30.700	28.979
105.0	26.410	30.405	29.200	30.007	27.662	24.496	27.184	24.724	27.133	25.659
107.5	23.032	24.682	24.774	26.782	23.414	21.917	24.033	17.728	21.243	22.385
110.0	14.587	16.294	22.481	23.812	18.272	20.089	20.386	10.664	11.686	14.133
112.5	5.193	9.406	20.240	20.882	13.572	18.572	16.600	3.574	4.951	4.949
115.0	2.750	4.812	16.252	18.079	11.935	15.292	11.906	1.414	2.664	2.577
117.5	1.535	1.881	12.229	15.189	10.286	11.300	7.503	1.179	1.215	1.441
120.0	1.540	1.486	8.462	12.029	8.568	9.077	4.971	1.108	1.045	1.233
122.5	1.747	1.326	4.698	9.029	6.947	7.543	2.721	1.097	1.066	1.189
125.0	1.636	1.513	3.191	6.503	5.932	5.347	2.166	0.988	1.368	1.158

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CANDELA TABULATION - (Cont.)

127.5	1.473	1.515	1.709	4.290	4.920	2.898	1.639	0.843	1.481	1.130
130.0	1.409	1.253	1.524	2.969	3.921	1.692	1.281	0.979	1.318	1.227
132.5	1.361	1.156	1.345	1.929	2.963	0.950	0.983	1.216	1.211	1.344
135.0	1.526	1.292	1.459	1.691	2.239	0.895	1.021	1.271	1.185	1.390
137.5	1.722	1.384	1.573	1.555	1.574	1.087	1.059	1.263	1.296	1.424
140.0	1.674	1.415	1.492	1.697	1.233	1.077	1.095	1.274	1.599	1.337
142.5	1.592	1.474	1.410	1.800	0.966	0.996	1.143	1.293	1.642	1.232
145.0	1.346	1.567	1.299	1.796	1.089	1.107	1.250	1.095	1.329	1.155
147.5	1.079	1.500	1.191	1.784	1.209	1.283	1.307	0.826	1.119	1.081
150.0	1.163	1.219	1.235	1.747	1.310	1.391	1.110	0.857	1.046	1.182
152.5	1.292	1.192	1.279	1.662	1.408	1.478	0.962	0.981	1.018	1.307
155.0	1.414	1.490	1.337	1.457	1.487	1.485	1.041	1.170	1.048	1.364
157.5	1.536	1.651	1.387	1.401	1.550	1.469	1.115	1.377	1.039	1.414
160.0	1.558	1.677	1.388	1.607	1.563	1.214	1.173	1.133	0.991	1.301
162.5	1.581	1.471	1.582	1.581	1.738	0.977	1.202	0.880	1.084	1.201
165.0	1.603	1.224	2.082	1.403	2.069	0.992	1.203	0.875	1.226	1.139
167.5	1.446	1.263	1.887	1.331	1.741	0.964	1.514	1.007	1.333	1.064
170.0	1.314	1.401	1.483	1.349	1.560	1.059	1.524	1.183	1.114	1.050
172.5	1.344	1.382	1.195	1.428	1.502	1.489	1.337	1.244	1.270	1.171
175.0	1.384	1.334	1.313	1.503	1.341	1.619	1.264	1.061	1.701	1.221
177.5	1.552	1.041	1.146	1.513	1.247	1.263	1.322	1.227	1.469	1.092
180.0	1.338	1.338	1.338	1.338	1.338	1.338	1.338	1.338	1.338	1.338

**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	1250.693	1250.693	1250.693	1250.693	1250.693	1250.693	1250.693
2.5	1240.814	1229.118	1229.746	1246.307	1247.261	1242.311	1236.335
5.0	1185.995	1175.715	1169.627	1195.487	1186.624	1189.172	1187.090
7.5	1131.110	1117.313	1109.373	1140.793	1125.397	1133.292	1125.618
10.0	1075.838	1062.123	1055.645	1080.648	1068.639	1073.376	1068.757
12.5	1021.351	1007.339	1001.938	1023.779	1011.920	1017.050	1013.557
15.0	971.294	956.916	952.099	971.436	960.340	965.838	966.067
17.5	922.226	906.999	902.378	922.291	908.828	918.722	921.242
20.0	878.410	865.643	861.407	877.425	869.209	877.253	881.279
22.5	835.631	825.275	820.488	835.915	829.644	838.724	842.928
25.0	798.184	785.997	782.562	798.887	794.099	804.241	806.576
27.5	753.195	746.833	743.183	751.188	757.351	757.801	770.885
30.0	670.619	641.118	638.324	689.692	665.542	695.438	686.885
32.5	575.670	528.714	532.482	586.984	572.503	591.323	587.598
35.0	422.389	397.001	394.351	432.665	424.783	432.555	450.892
37.5	286.233	263.446	259.028	313.944	279.917	311.219	302.619
40.0	228.501	213.202	213.917	239.689	227.799	238.041	232.741
42.5	178.067	170.124	170.055	187.926	177.107	187.140	186.529
45.0	160.108	157.132	157.766	163.376	162.774	163.998	166.583
47.5	145.492	146.578	146.059	149.581	148.989	150.745	154.219
50.0	144.997	145.437	146.431	148.391	148.912	149.605	149.801
52.5	144.426	145.012	146.733	146.846	148.771	148.158	147.622
55.0	143.533	144.878	145.602	144.888	147.320	146.342	147.436
57.5	142.921	144.764	144.564	144.779	145.982	145.611	147.798
60.0	143.435	144.630	145.138	146.765	146.795	146.145	148.300
62.5	142.508	144.495	145.293	145.568	147.199	143.886	148.839
65.0	136.081	138.054	139.149	140.879	140.570	138.424	142.867

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PHOTOMETRIC FILENAME : SP-00667 ~ OR1514GV-27L35K-EX-TF1.IES

CANDELA TABULATION - (Cont.)

67.5	128.698	131.251	132.748	133.065	133.582	130.109	135.233
70.0	117.682	119.969	122.521	121.831	121.231	118.577	123.349
72.5	106.481	108.470	112.164	111.418	109.098	107.960	110.409
75.0	94.611	96.843	100.111	101.876	100.008	98.343	102.952
77.5	82.768	85.211	87.952	91.271	90.618	88.281	96.792
80.0	71.019	72.189	74.557	79.575	77.284	77.740	83.566
82.5	60.149	59.112	61.771	68.336	64.360	67.608	68.714
85.0	52.314	53.108	56.065	57.564	56.201	57.908	57.866
87.5	45.938	47.324	50.690	50.667	48.537	50.950	47.914
90.0	44.378	45.850	48.778	47.620	46.324	46.797	44.955
92.5	42.329	44.508	46.661	44.755	44.010	43.391	43.477
95.0	38.732	40.665	42.511	42.069	40.647	40.748	40.742
97.5	35.037	36.767	38.293	38.805	37.209	37.491	37.741
100.0	31.030	32.732	33.438	34.987	33.057	33.627	33.899
102.5	27.260	28.696	28.784	31.792	29.052	30.174	29.888
105.0	24.206	25.329	25.875	29.177	26.371	27.114	26.410
107.5	21.229	21.970	22.514	26.380	23.570	20.569	23.032
110.0	18.473	18.832	15.421	23.417	19.733	10.693	14.587
112.5	15.350	15.698	9.030	20.023	15.929	4.808	5.193
115.0	11.171	13.619	8.202	16.244	12.394	2.618	2.750
117.5	7.590	11.540	7.346	13.307	8.885	1.558	1.535
120.0	5.668	9.176	6.288	11.102	5.578	1.512	1.540
122.5	3.874	6.816	5.225	8.813	2.586	1.534	1.747
125.0	2.430	4.866	4.127	6.450	1.909	1.619	1.636
127.5	1.341	2.931	3.029	4.256	1.309	1.572	1.473
130.0	1.196	1.941	1.939	2.206	1.230	1.412	1.409
132.5	1.063	0.977	1.022	1.289	1.184	1.291	1.361
135.0	0.958	1.275	1.204	1.297	1.357	1.202	1.526
137.5	0.935	1.562	1.337	1.242	1.524	1.240	1.722
140.0	1.118	1.466	1.168	1.134	1.650	1.383	1.674
142.5	1.191	1.369	1.044	1.131	1.733	1.505	1.592
145.0	0.998	1.232	1.199	1.209	1.554	1.612	1.346
147.5	0.951	1.094	1.319	1.212	1.422	1.665	1.079
150.0	1.251	0.938	1.241	1.158	1.568	1.676	1.163
152.5	1.370	0.809	1.169	1.214	1.667	1.667	1.292
155.0	1.075	1.217	1.124	1.355	1.514	1.643	1.414
157.5	0.976	1.580	1.088	1.355	1.437	1.697	1.536
160.0	1.198	1.664	1.081	1.275	1.596	1.799	1.558
162.5	1.281	1.640	1.193	1.106	1.472	1.811	1.581
165.0	1.278	1.453	1.426	1.000	1.050	1.767	1.603
167.5	1.286	1.385	1.296	1.148	1.290	1.599	1.446
170.0	1.140	1.344	1.240	1.135	1.497	1.601	1.314
172.5	0.980	1.525	1.283	1.267	1.375	1.576	1.344
175.0	1.097	1.763	1.512	1.287	1.038	1.688	1.384
177.5	1.408	1.107	1.496	1.264	1.650	1.056	1.552
180.0	1.338	1.338	1.338	1.338	1.338	1.338	1.338

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	385.00	N.A.	22.90
0-30	752.70	N.A.	44.70
0-40	1028.47	N.A.	61.10
0-60	1291.12	N.A.	76.70
0-80	1531.79	N.A.	91.00
0-90	1595.15	N.A.	94.70
10-90	1484.78	N.A.	88.20
20-40	643.47	N.A.	38.20
20-50	775.98	N.A.	46.10
40-70	398.46	N.A.	23.70
60-80	240.66	N.A.	14.30
70-80	104.85	N.A.	6.20
80-90	63.36	N.A.	3.80
90-110	72.72	N.A.	4.30
90-120	82.86	N.A.	4.90
90-130	85.86	N.A.	5.10
90-150	87.76	N.A.	5.20
90-180	88.88	N.A.	5.30
110-180	16.16	N.A.	1.00
0-180	1684.03	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	110.38
10-20	274.63
20-30	367.70
30-40	275.77
40-50	132.51
50-60	130.14
60-70	135.81
70-80	104.85
80-90	63.36
90-100	44.60
100-110	28.12
110-120	10.13
120-130	3.00
130-140	1.08
140-150	0.82
150-160	0.61
160-170	0.39
170-180	0.13

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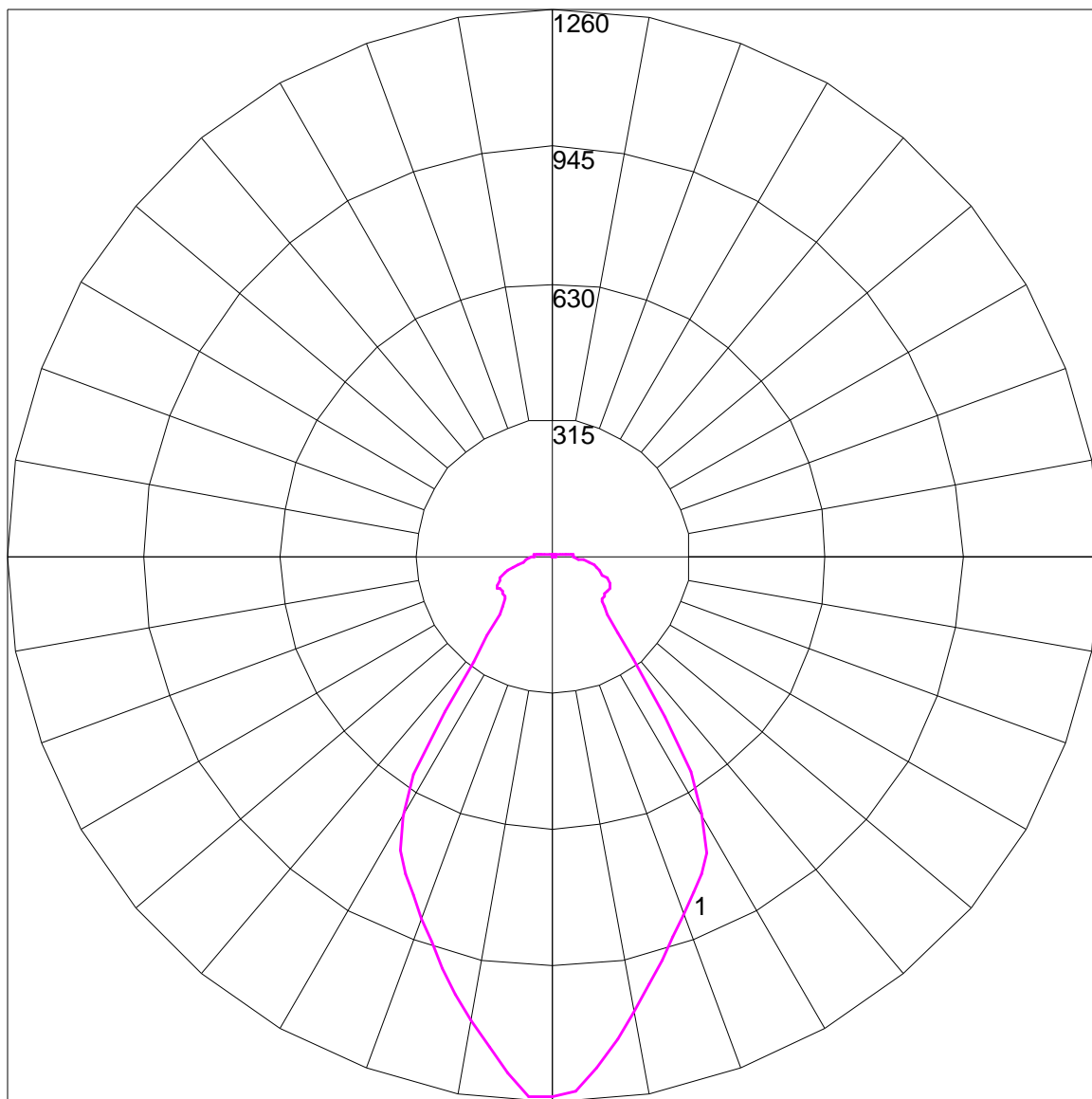
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	114	114	114	114	108	108	108	102	102	102	97	97	97	95
1	108	104	99	96	105	101	97	94	96	93	90	91	88	86	86	84	83	80
2	100	92	86	81	97	90	84	79	86	81	77	82	78	74	78	75	72	70
3	92	83	76	70	90	81	74	69	77	72	67	74	69	65	71	67	64	61
4	86	75	68	62	83	74	67	61	71	65	60	68	63	58	65	61	57	55
5	80	69	61	55	78	68	60	55	65	59	54	63	57	53	60	56	52	50
6	75	64	56	50	73	62	55	50	60	54	49	58	52	48	56	51	47	45
7	71	59	51	46	69	58	51	45	56	49	45	54	48	44	52	47	44	42
8	67	55	47	42	65	54	47	42	52	46	41	51	45	41	49	44	40	38
9	63	51	44	39	61	50	43	39	49	43	38	48	42	38	46	41	37	36
10	60	48	41	36	58	47	41	36	46	40	36	45	39	35	44	39	35	33

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00667 ~ OR1514GV-27L35K-EX-TF1.IES

POLAR GRAPH



Maximum Candela = 1259.93 Located At Horizontal Angle = 90, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (0 - 180)