

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00667 ~ OR1514GV-15L35K-EX-TF1.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00667_M-15L

[TESTLAB] Spectrum Photometric Lab VLS-245-981

[MANUFAC] Spectrum Lighting

[ISSUEDATE] 4/20/2018

[UPDATE] 4/26/2018

[LUMCAT] OR1514GV-15L-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, scaled from 27L

[_CRI]85+

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	965
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	96
Total Luminaire Watts	10
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-15L35K-EX-TF1.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1119	1134	1159
55	1163	1158	1133
65	1417	1411	1348
75	1434	1480	1394
85	1424	1561	1445

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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	716.647	716.647	716.647	716.647	716.647	716.647	716.647	716.647	716.647	716.647
2.5	708.420	712.983	712.488	718.952	721.940	713.685	721.597	711.170	715.601	707.331
5.0	680.203	683.210	685.305	691.557	694.674	690.443	690.865	687.801	686.211	681.224
7.5	644.979	652.764	654.149	663.692	667.332	656.775	660.121	654.436	656.133	648.358
10.0	612.398	620.592	623.011	632.633	635.062	624.622	628.724	623.045	624.293	617.526
12.5	580.768	589.673	591.876	601.902	602.891	593.475	597.371	592.904	593.303	587.426
15.0	553.556	561.835	563.926	573.255	575.712	563.661	567.581	563.639	564.477	558.278
17.5	527.872	535.112	536.435	545.010	548.571	534.716	537.930	534.927	536.559	529.465
20.0	504.973	511.123	511.330	519.296	522.754	509.333	513.145	509.342	510.866	504.668
22.5	482.998	488.265	486.545	494.123	497.047	486.201	488.436	485.671	486.469	481.254
25.0	462.168	468.076	465.418	472.141	475.154	463.044	465.781	461.930	465.135	458.826
27.5	441.717	443.526	444.776	448.180	452.751	439.871	442.149	438.148	438.097	436.725
30.0	393.585	409.050	400.313	413.232	416.675	392.057	395.000	387.853	397.622	383.573
32.5	336.694	357.105	352.922	370.116	378.218	329.238	346.007	321.905	341.412	320.399
35.0	258.361	265.514	268.525	281.842	287.794	256.070	257.035	248.503	249.495	244.897
37.5	173.401	188.669	179.943	200.320	199.425	176.808	170.921	170.846	174.156	165.506
40.0	133.361	144.079	141.418	153.976	155.270	131.583	136.890	127.756	135.086	127.648
42.5	106.881	109.614	108.519	112.949	112.702	106.348	104.225	104.033	104.563	102.327
45.0	95.452	96.508	96.680	98.769	98.876	92.623	94.480	91.784	92.681	91.464
47.5	88.367	87.336	87.004	86.701	85.811	85.433	85.231	85.845	84.375	84.861
50.0	85.836	86.442	85.326	84.970	84.622	82.493	83.676	83.349	83.590	82.812
52.5	84.587	85.237	84.393	83.322	83.435	81.885	82.152	82.682	82.863	82.074
55.0	84.481	83.401	84.117	82.053	82.274	81.704	81.078	82.102	82.256	82.074
57.5	84.688	82.780	83.902	81.308	81.218	81.757	80.107	81.568	82.261	82.277
60.0	84.976	84.575	84.319	82.921	81.593	81.241	80.450	81.261	83.504	82.572
62.5	85.285	84.744	84.790	83.816	81.651	80.423	80.539	81.069	83.108	82.892
65.0	81.863	81.737	81.517	81.558	77.888	76.591	77.560	78.293	79.513	79.190
67.5	77.489	77.844	77.952	78.444	73.968	71.220	74.287	74.240	75.050	74.437
70.0	70.679	72.277	71.747	71.764	68.157	65.109	67.839	68.185	68.924	67.434
72.5	63.264	66.903	65.348	65.460	62.411	58.621	61.421	61.161	62.400	59.869
75.0	58.991	61.886	60.885	60.674	57.354	53.507	55.323	54.994	55.124	52.949
77.5	55.462	56.353	56.546	55.357	52.165	49.068	49.206	49.233	48.113	46.187
80.0	47.883	49.883	49.292	47.945	45.631	42.803	42.917	42.717	41.583	40.153
82.5	39.373	43.164	41.865	40.728	39.189	35.673	36.734	35.854	35.347	34.290
85.0	33.157	36.011	36.324	34.244	33.641	30.539	31.499	31.203	29.632	29.913
87.5	27.455	30.620	30.887	28.778	28.445	26.348	26.710	27.547	25.678	25.869
90.0	25.759	28.266	28.943	27.042	26.357	24.435	25.867	26.197	24.809	25.092
92.5	24.912	26.197	27.161	25.479	24.373	23.560	24.942	25.863	23.939	25.042
95.0	23.345	24.610	25.390	24.532	23.270	22.156	23.346	24.305	23.067	23.086
97.5	21.626	23.054	23.621	23.315	22.079	20.519	21.681	22.229	21.740	20.725
100.0	19.424	21.549	21.447	21.172	20.173	18.294	19.485	19.990	19.658	18.638
102.5	17.126	19.734	19.259	19.087	18.213	15.812	17.341	17.683	17.591	16.605
105.0	15.133	17.422	16.732	17.194	15.850	14.036	15.576	14.167	15.547	14.703
107.5	13.197	14.143	14.196	15.346	13.416	12.558	13.771	10.158	12.172	12.827
110.0	8.358	9.336	12.882	13.644	10.470	11.511	11.681	6.110	6.696	8.098
112.5	2.976	5.390	11.598	11.965	7.777	10.642	9.512	2.048	2.837	2.836
115.0	1.576	2.757	9.312	10.359	6.839	8.762	6.822	0.810	1.526	1.477
117.5	0.880	1.078	7.007	8.703	5.894	6.475	4.299	0.676	0.696	0.826
120.0	0.882	0.851	4.849	6.893	4.909	5.201	2.848	0.635	0.599	0.707
122.5	1.001	0.760	2.692	5.174	3.981	4.322	1.559	0.629	0.611	0.681
125.0	0.937	0.867	1.828	3.726	3.399	3.064	1.241	0.566	0.784	0.664

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CANDELA TABULATION - (Cont.)

127.5	0.844	0.868	0.979	2.458	2.819	1.661	0.939	0.483	0.849	0.647
130.0	0.807	0.718	0.873	1.701	2.247	0.970	0.734	0.561	0.755	0.703
132.5	0.780	0.662	0.771	1.105	1.698	0.544	0.563	0.697	0.694	0.770
135.0	0.874	0.740	0.836	0.969	1.283	0.513	0.585	0.728	0.679	0.796
137.5	0.987	0.793	0.901	0.891	0.902	0.623	0.607	0.724	0.743	0.816
140.0	0.959	0.811	0.855	0.972	0.707	0.617	0.627	0.730	0.916	0.766
142.5	0.912	0.845	0.808	1.031	0.554	0.571	0.655	0.741	0.941	0.706
145.0	0.771	0.898	0.744	1.029	0.624	0.634	0.716	0.627	0.762	0.662
147.5	0.618	0.860	0.682	1.022	0.693	0.735	0.749	0.473	0.641	0.619
150.0	0.666	0.698	0.708	1.001	0.751	0.797	0.636	0.491	0.599	0.677
152.5	0.740	0.683	0.733	0.952	0.807	0.847	0.551	0.562	0.583	0.749
155.0	0.810	0.854	0.766	0.835	0.852	0.851	0.596	0.670	0.601	0.782
157.5	0.880	0.946	0.795	0.803	0.888	0.842	0.639	0.789	0.595	0.810
160.0	0.893	0.961	0.795	0.921	0.896	0.696	0.672	0.649	0.568	0.745
162.5	0.906	0.843	0.906	0.906	0.996	0.560	0.689	0.504	0.621	0.688
165.0	0.919	0.701	1.193	0.804	1.186	0.568	0.689	0.501	0.702	0.653
167.5	0.829	0.724	1.081	0.763	0.998	0.552	0.868	0.577	0.764	0.610
170.0	0.753	0.803	0.850	0.773	0.894	0.607	0.873	0.678	0.638	0.602
172.5	0.770	0.792	0.685	0.818	0.861	0.853	0.766	0.713	0.728	0.671
175.0	0.793	0.764	0.752	0.861	0.768	0.928	0.724	0.608	0.975	0.700
177.5	0.889	0.596	0.657	0.867	0.715	0.724	0.758	0.703	0.842	0.626
180.0	0.767	0.767	0.767	0.767	0.767	0.767	0.767	0.767	0.767	0.767

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	716.647	716.647	716.647	716.647	716.647	716.647	716.647
2.5	710.986	704.285	704.644	714.134	714.681	711.844	708.420
5.0	679.575	673.685	670.196	685.014	679.936	681.396	680.203
7.5	648.126	640.220	635.671	653.674	644.852	649.376	644.979
10.0	616.455	608.596	604.885	619.211	612.330	615.044	612.398
12.5	585.234	577.205	574.110	586.625	579.830	582.770	580.768
15.0	556.551	548.313	545.553	556.633	550.275	553.425	553.556
17.5	528.436	519.710	517.063	528.473	520.758	526.428	527.872
20.0	503.329	496.013	493.586	502.765	498.057	502.666	504.973
22.5	478.817	472.883	470.140	478.979	475.386	480.589	482.998
25.0	457.359	450.376	448.408	457.762	455.019	460.830	462.168
27.5	431.581	427.935	425.844	430.431	433.962	434.220	441.717
30.0	384.265	367.361	365.760	395.194	381.356	398.486	393.585
32.5	329.859	302.953	305.112	336.342	328.044	338.828	336.694
35.0	242.029	227.482	225.963	247.917	243.401	247.854	258.361
37.5	164.012	150.955	148.423	179.890	160.392	178.328	173.401
40.0	130.931	122.165	122.574	137.342	130.529	136.397	133.361
42.5	102.032	97.481	97.442	107.682	101.482	107.231	106.881
45.0	91.742	90.037	90.400	93.614	93.270	93.971	95.452
47.5	83.367	83.989	83.692	85.710	85.371	86.377	88.367
50.0	83.083	83.335	83.905	85.028	85.327	85.724	85.836
52.5	82.756	83.092	84.078	84.143	85.246	84.895	84.587
55.0	82.244	83.015	83.430	83.021	84.414	83.854	84.481
57.5	81.894	82.950	82.835	82.958	83.648	83.435	84.688
60.0	82.188	82.873	83.164	84.096	84.114	83.741	84.976
62.5	81.657	82.796	83.253	83.410	84.345	82.447	85.285
65.0	77.974	79.105	79.732	80.724	80.547	79.317	81.863

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CANDELA TABULATION - (Cont.)

67.5	73.744	75.207	76.065	76.246	76.542	74.552	77.489
70.0	67.432	68.742	70.205	69.809	69.465	67.945	70.679
72.5	61.014	62.153	64.270	63.843	62.513	61.861	63.264
75.0	54.212	55.491	57.364	58.375	57.305	56.351	58.991
77.5	47.426	48.826	50.396	52.298	51.924	50.585	55.462
80.0	40.694	41.364	42.721	45.596	44.284	44.545	47.883
82.5	34.465	33.871	35.395	39.157	36.878	38.739	39.373
85.0	29.976	30.431	32.125	32.984	32.203	33.181	33.157
87.5	26.322	27.117	29.045	29.032	27.812	29.194	27.455
90.0	25.429	26.272	27.950	27.286	26.544	26.815	25.759
92.5	24.255	25.503	26.737	25.645	25.218	24.863	24.912
95.0	22.193	23.301	24.359	24.106	23.291	23.349	23.345
97.5	20.076	21.067	21.942	22.235	21.321	21.482	21.626
100.0	17.780	18.755	19.160	20.048	18.942	19.268	19.424
102.5	15.620	16.443	16.493	18.217	16.647	17.290	17.126
105.0	13.870	14.514	14.826	16.718	15.111	15.536	15.133
107.5	12.164	12.589	12.901	15.116	13.506	11.786	13.197
110.0	10.585	10.791	8.836	13.418	11.307	6.127	8.358
112.5	8.796	8.995	5.174	11.473	9.127	2.755	2.976
115.0	6.401	7.804	4.700	9.308	7.102	1.500	1.576
117.5	4.349	6.612	4.209	7.625	5.091	0.893	0.880
120.0	3.248	5.258	3.603	6.361	3.196	0.866	0.882
122.5	2.220	3.906	2.994	5.050	1.482	0.879	1.001
125.0	1.392	2.788	2.365	3.696	1.094	0.928	0.937
127.5	0.768	1.679	1.736	2.439	0.750	0.901	0.844
130.0	0.685	1.112	1.111	1.264	0.705	0.809	0.807
132.5	0.609	0.560	0.586	0.739	0.678	0.740	0.780
135.0	0.549	0.731	0.690	0.743	0.778	0.689	0.874
137.5	0.536	0.895	0.766	0.712	0.873	0.711	0.987
140.0	0.641	0.840	0.669	0.650	0.945	0.792	0.959
142.5	0.682	0.784	0.598	0.648	0.993	0.862	0.912
145.0	0.572	0.706	0.687	0.693	0.890	0.924	0.771
147.5	0.545	0.627	0.756	0.694	0.815	0.954	0.618
150.0	0.717	0.537	0.711	0.664	0.898	0.960	0.666
152.5	0.785	0.464	0.670	0.696	0.955	0.955	0.740
155.0	0.616	0.697	0.644	0.776	0.868	0.941	0.810
157.5	0.559	0.905	0.623	0.776	0.823	0.972	0.880
160.0	0.686	0.953	0.619	0.731	0.915	1.031	0.893
162.5	0.734	0.940	0.684	0.634	0.843	1.038	0.906
165.0	0.732	0.833	0.817	0.573	0.602	1.012	0.919
167.5	0.737	0.794	0.743	0.658	0.739	0.916	0.829
170.0	0.653	0.770	0.711	0.650	0.858	0.917	0.753
172.5	0.562	0.874	0.735	0.726	0.788	0.903	0.770
175.0	0.629	1.010	0.866	0.737	0.595	0.967	0.793
177.5	0.807	0.634	0.857	0.724	0.945	0.605	0.889
180.0	0.767	0.767	0.767	0.767	0.767	0.767	0.767

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	220.61	N.A.	22.90
0-30	431.30	N.A.	44.70
0-40	589.32	N.A.	61.10
0-60	739.81	N.A.	76.70
0-80	877.72	N.A.	91.00
0-90	914.02	N.A.	94.70
10-90	850.78	N.A.	88.20
20-40	368.71	N.A.	38.20
20-50	444.64	N.A.	46.10
40-70	228.32	N.A.	23.70
60-80	137.90	N.A.	14.30
70-80	60.08	N.A.	6.20
80-90	36.31	N.A.	3.80
90-110	41.67	N.A.	4.30
90-120	47.48	N.A.	4.90
90-130	49.20	N.A.	5.10
90-150	50.28	N.A.	5.20
90-180	50.93	N.A.	5.30
110-180	9.26	N.A.	1.00
0-180	964.95	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	63.25
10-20	157.36
20-30	210.69
30-40	158.02
40-50	75.93
50-60	74.57
60-70	77.82
70-80	60.08
80-90	36.31
90-100	25.56
100-110	16.12
110-120	5.80
120-130	1.72
130-140	0.62
140-150	0.47
150-160	0.35
160-170	0.22
170-180	0.07

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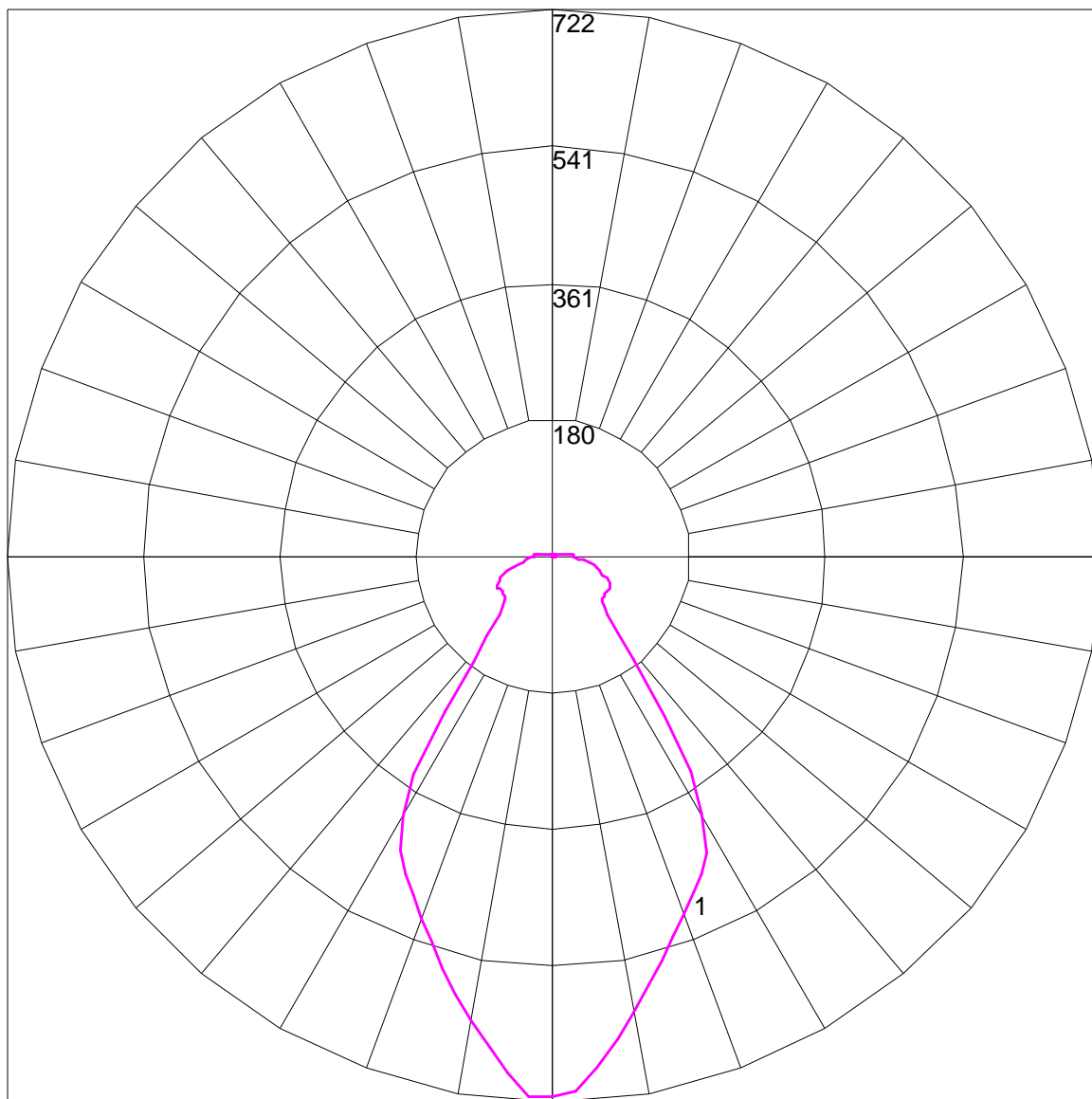
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	114	114	114	114	108	108	108	102	102	102	97	97	97	95
1	108	103	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-15L35K-EX-TF1.IES

POLAR GRAPH



Maximum Candela = 721.94 Located At Horizontal Angle = 90, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (0 - 180)