

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00645_1 ~ OR1917GV-45L35K-EX-TF2-DR19FO90.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] SP-00645_1
[TESTLAB] Spectrum Lighting Photometric Lab VLS-245-981
[MANUFAC] Spectrum Lighting
[ISSUE DATE] 6/18/2018
[UPDATE] 6/18/2018
[LUMCAT] OR1917GV-45L-35K-EX-TF2-DR19FO90
[LUMINAIRE] Nom. 19" diam x 17" H, Open reflector 91% down / 9% uplight
[OTHER] Regressed, 6" diam. low profile frosted glass diffuser
[OTHER] Reflector: Matte White interior finish
[OTHER] 19" Optical Acrylic White Door
[OTHER] Beam Angle: 122.6 degrees
[OTHER] 91% Downlight; 9% 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	2435
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	76
Total Luminaire Watts	32
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.18
Spacing Criterion (90-270)	1.20
Spacing Criterion (Diagonal)	1.32
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_1 ~ OR1917GV-45L35K-EX-TF2-DR19FO90.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2893	2931	2977
55	3062	3137	2907
65	4383	4346	3807
75	4029	3977	3579
85	3231	3251	2915

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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	698.577	698.577	698.577	698.577	698.577	698.577	698.577	698.577	698.577	698.577
2.5	698.123	698.258	698.388	697.868	699.006	696.948	699.197	701.019	699.219	699.596
5.0	691.414	692.883	693.204	693.704	694.347	693.860	696.804	697.277	695.142	695.811
7.5	684.395	687.150	687.529	688.365	689.365	690.588	693.153	693.136	690.593	691.528
10.0	676.359	677.580	678.123	680.701	680.354	683.285	685.753	684.878	684.620	682.878
12.5	666.740	667.730	668.098	671.218	671.137	675.761	677.514	676.212	678.458	673.882
15.0	653.351	656.268	655.304	658.946	659.039	664.741	667.470	665.191	666.379	663.179
17.5	638.844	643.724	641.882	644.827	646.301	653.256	656.324	653.493	654.084	651.545
20.0	622.364	627.197	626.532	628.547	629.089	638.178	643.378	639.297	639.512	636.871
22.5	604.938	609.751	609.660	611.458	611.896	622.880	627.365	623.857	624.451	620.966
25.0	586.228	589.902	589.363	593.643	594.793	606.594	607.488	605.209	606.614	602.098
27.5	566.212	569.532	568.883	574.005	576.675	589.063	588.238	586.298	588.375	582.928
30.0	544.819	548.148	548.096	553.080	555.573	567.583	569.594	566.875	568.644	563.221
32.5	522.256	526.480	526.419	531.189	533.841	545.530	548.741	546.009	548.026	542.201
35.0	498.747	504.394	503.595	508.783	510.745	522.175	526.228	523.022	525.105	519.411
37.5	475.144	481.313	480.302	485.587	487.154	498.761	503.168	499.982	502.193	497.046
40.0	451.482	457.097	456.539	462.081	462.753	475.247	479.792	476.882	479.299	475.134
42.5	427.000	432.487	432.220	437.980	438.313	451.184	455.701	453.264	456.168	452.131
45.0	402.128	407.530	407.473	413.708	413.827	426.394	431.304	429.185	432.686	428.240
47.5	380.211	384.930	385.489	389.501	390.230	402.244	407.801	404.944	409.173	403.781
50.0	359.310	363.925	365.144	365.306	367.506	378.743	384.578	380.591	385.625	378.970
52.5	357.078	359.758	362.703	358.496	351.761	359.891	363.114	358.344	362.437	356.199
55.0	359.426	364.310	368.303	353.418	341.278	344.647	342.024	337.189	339.571	334.405
57.5	375.760	379.061	382.794	367.999	343.083	344.390	339.734	331.562	327.946	326.886
60.0	394.202	397.753	400.153	382.873	351.916	353.241	339.750	331.949	323.996	324.330
62.5	399.611	403.019	402.158	387.981	353.129	358.811	349.289	337.562	326.815	325.168
65.0	404.117	404.661	400.761	390.316	351.000	362.894	358.975	344.590	333.115	326.832
67.5	378.691	382.880	374.972	366.841	330.654	349.725	348.825	334.904	324.498	313.246
70.0	351.822	356.849	345.895	340.408	304.594	330.825	336.678	322.255	310.063	297.323
72.5	305.182	311.772	301.071	298.389	268.283	296.861	302.139	287.722	279.164	265.518
75.0	258.710	264.870	255.381	256.009	229.833	259.437	266.530	251.077	243.768	232.575
77.5	213.397	220.758	211.403	212.394	192.011	217.778	224.404	211.737	206.417	195.874
80.0	170.523	177.184	168.462	171.666	154.269	175.537	183.959	172.680	168.727	159.682
82.5	138.371	145.854	138.828	138.074	126.708	143.938	149.953	141.752	138.765	131.993
85.0	110.736	116.187	111.445	110.257	99.918	113.056	119.657	112.222	109.563	105.677
87.5	96.551	100.886	98.072	93.132	87.063	95.850	99.232	94.845	90.795	89.023
90.0	85.371	87.612	86.678	81.802	75.016	79.672	83.901	79.954	72.952	74.946
92.5	80.652	84.249	83.330	78.579	72.572	77.055	78.814	77.269	71.641	72.079
95.0	75.621	80.113	79.100	74.375	69.793	74.103	74.539	74.367	70.061	68.949
97.5	70.071	73.366	72.407	69.105	65.008	68.967	71.493	70.734	66.101	65.024
100.0	64.468	67.259	66.601	64.657	60.541	64.163	67.453	66.458	62.106	60.854
102.5	58.796	62.679	62.597	60.903	57.298	60.724	62.267	60.638	57.946	56.149
105.0	54.635	57.921	58.319	56.543	53.836	56.992	57.278	55.278	53.993	51.974
107.5	51.953	52.850	53.609	51.794	49.781	52.430	52.470	50.733	50.732	48.670
110.0	49.151	48.666	49.105	47.648	45.203	48.026	48.555	46.306	47.180	45.783
112.5	46.257	45.709	44.850	43.799	39.584	43.952	45.263	42.043	42.925	43.425
115.0	39.719	42.194	39.607	32.288	30.583	37.424	41.364	38.901	38.369	40.678
117.5	31.076	38.090	33.455	17.989	16.452	27.004	37.148	36.948	33.275	37.552
120.0	26.711	34.450	26.656	9.510	7.160	17.859	32.014	34.754	28.688	35.310
122.5	24.211	31.188	19.388	2.494	3.550	10.254	26.514	32.363	24.794	33.736
125.0	22.980	27.376	13.741	1.456	1.660	5.248	22.066	29.237	22.840	30.841

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CANDELA TABULATION - (Cont.)

127.5	22.152	23.214	8.984	1.405	1.319	2.721	17.913	25.641	22.953	27.175
130.0	17.465	17.281	5.612	1.215	1.388	1.396	13.017	20.028	20.520	20.853
132.5	11.959	10.503	2.810	1.014	1.744	0.949	7.987	13.450	16.005	13.380
135.0	8.309	6.826	1.873	1.131	1.617	0.971	4.843	9.210	11.399	8.597
137.5	4.894	4.241	1.492	1.240	1.231	1.253	1.895	5.778	6.736	4.678
140.0	3.224	2.868	1.271	1.126	1.168	1.245	1.628	3.670	4.130	3.035
142.5	1.668	1.794	1.082	1.032	1.232	1.113	1.441	1.889	2.515	1.883
145.0	1.449	1.419	1.071	1.084	1.276	0.975	1.318	1.412	1.829	1.592
147.5	1.233	1.149	1.079	1.098	1.314	0.834	1.209	1.133	1.468	1.410
150.0	1.046	1.141	1.266	0.944	1.340	1.016	1.234	0.985	1.296	1.313
152.5	0.915	1.152	1.459	0.872	1.365	1.263	1.270	0.848	1.171	1.226
155.0	1.118	1.263	1.645	1.061	1.282	1.311	1.365	0.938	1.161	1.506
157.5	1.324	1.356	1.791	1.144	1.188	1.333	1.384	1.025	1.170	1.743
160.0	1.536	1.288	1.686	1.023	1.032	1.164	1.197	1.067	1.022	1.693
162.5	1.419	1.299	1.529	1.128	0.904	1.017	1.194	1.116	0.924	1.684
165.0	0.969	1.441	1.293	1.392	0.841	0.922	1.366	1.177	0.969	1.740
167.5	0.974	1.357	1.124	1.579	1.007	0.931	1.329	1.115	1.020	1.426
170.0	1.207	1.282	1.080	1.434	1.152	1.095	1.137	1.114	1.090	1.396
172.5	1.363	1.165	1.262	1.226	1.119	1.374	0.966	1.159	1.184	1.601
175.0	1.143	0.929	1.622	1.123	1.020	1.354	1.215	1.117	1.255	1.401
177.5	1.263	0.993	1.442	1.345	1.099	1.293	1.117	1.112	1.396	1.185
180.0	1.153	1.153	1.153	1.153	1.153	1.153	1.153	1.153	1.153	1.153

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	698.577	698.577	698.577	698.577	698.577	698.577	698.577
2.5	698.055	697.234	698.771	697.920	695.598	696.431	698.123
5.0	694.529	693.764	695.532	693.136	690.458	690.351	691.414
7.5	690.761	689.666	691.260	687.301	684.902	684.035	684.395
10.0	684.002	682.514	682.716	677.303	675.112	675.668	676.359
12.5	676.690	674.845	673.033	666.554	665.053	666.369	666.740
15.0	665.796	662.271	660.060	653.750	651.885	652.487	653.351
17.5	654.188	649.280	646.699	640.233	638.476	637.965	638.844
20.0	639.722	632.891	632.511	625.271	621.654	621.359	622.364
22.5	623.953	616.387	616.650	608.539	604.427	604.126	604.938
25.0	604.583	598.677	598.127	589.071	584.517	585.384	586.228
27.5	585.410	580.695	578.787	569.007	564.430	565.528	566.212
30.0	566.648	560.574	558.426	548.239	543.585	543.692	544.819
32.5	546.386	539.945	536.948	526.479	522.007	521.667	522.256
35.0	523.787	516.916	514.402	503.808	498.303	499.385	498.747
37.5	500.748	493.855	491.115	480.703	474.493	476.821	475.144
40.0	477.186	470.688	467.284	457.289	450.463	453.958	451.482
42.5	453.342	447.134	443.686	432.135	426.306	429.549	427.000
45.0	429.234	422.691	420.222	406.044	401.943	403.882	402.128
47.5	405.194	398.529	397.196	382.797	378.924	380.548	380.211
50.0	381.202	374.850	374.356	360.697	357.564	358.681	359.310
52.5	360.637	356.289	358.526	349.494	346.198	349.225	357.078
55.0	341.961	344.543	344.812	341.451	344.298	345.706	359.426
57.5	340.659	343.919	352.037	352.263	350.595	353.678	375.760
60.0	346.548	354.642	363.635	366.630	363.011	365.635	394.202
62.5	352.879	361.876	373.569	373.749	365.555	368.659	399.611
65.0	359.339	366.301	383.304	380.066	362.515	369.520	404.117

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67.5	345.579	354.051	368.040	356.791	342.018	348.378	378.691
70.0	327.849	331.584	351.296	331.922	314.082	323.878	351.822
72.5	292.709	297.390	311.999	290.202	274.698	283.945	305.182
75.0	255.600	257.832	272.382	248.480	231.772	242.915	258.710
77.5	216.574	217.872	229.284	206.730	192.843	202.164	213.397
80.0	177.656	177.774	187.443	166.724	154.734	162.106	170.523
82.5	145.152	146.930	152.889	136.035	127.069	133.113	138.371
85.0	113.893	118.239	121.994	108.976	100.663	106.071	110.736
87.5	95.277	101.100	104.899	94.510	89.526	92.700	96.551
90.0	79.196	85.576	91.228	83.518	79.264	80.913	85.371
92.5	76.860	81.399	86.552	81.339	76.253	75.995	80.652
95.0	74.072	77.988	81.509	77.489	73.061	71.090	75.621
97.5	69.669	72.258	75.750	70.519	67.884	66.221	70.071
100.0	65.128	66.593	70.105	64.114	62.906	61.946	64.468
102.5	60.233	61.815	64.632	58.502	59.090	58.961	58.796
105.0	56.070	57.203	59.521	54.861	55.256	55.507	54.635
107.5	53.284	53.730	54.825	53.407	51.360	51.274	51.953
110.0	50.181	49.992	50.453	50.311	47.905	47.640	49.151
112.5	46.612	45.153	46.368	45.818	45.635	44.764	46.257
115.0	42.390	38.091	38.062	37.694	42.302	41.876	39.719
117.5	37.437	24.689	26.846	27.175	36.880	38.976	31.076
120.0	31.048	13.278	16.677	16.809	31.735	35.689	26.711
122.5	23.426	6.124	7.051	6.520	26.999	32.104	24.211
125.0	16.652	1.583	3.149	2.793	21.408	27.959	22.980
127.5	10.450	1.220	1.467	1.478	14.824	23.488	22.152
130.0	6.337	1.014	1.157	1.289	9.492	17.061	17.465
132.5	3.285	1.002	1.227	1.392	5.278	9.789	11.959
135.0	2.094	1.005	1.143	1.599	2.923	6.743	8.309
137.5	1.593	1.024	1.031	1.824	1.836	5.050	4.894
140.0	1.301	1.031	1.123	1.608	1.391	3.644	3.224
142.5	1.066	1.029	1.234	1.355	1.287	2.299	1.668
145.0	1.221	1.008	1.206	1.133	1.391	1.926	1.449
147.5	1.444	0.977	1.179	0.938	1.575	1.674	1.233
150.0	1.331	1.126	1.284	1.244	1.508	1.426	1.046
152.5	1.190	1.352	1.368	1.508	1.372	1.181	0.915
155.0	1.101	1.162	1.261	1.442	1.378	1.155	1.118
157.5	1.015	0.847	1.186	1.374	1.409	1.128	1.324
160.0	0.938	0.983	1.227	1.299	1.216	1.091	1.536
162.5	0.963	1.149	1.117	1.158	1.098	1.016	1.419
165.0	1.171	1.208	0.830	0.942	1.224	0.881	0.969
167.5	1.062	1.068	1.116	1.043	1.293	1.109	0.974
170.0	1.038	0.894	1.284	1.051	1.285	1.181	1.207
172.5	1.135	0.870	1.230	1.044	1.170	1.047	1.363
175.0	1.111	0.769	1.020	1.101	1.109	1.062	1.143
177.5	1.158	1.156	1.207	1.103	1.107	1.239	1.263
180.0	1.153	1.153	1.153	1.153	1.153	1.153	1.153

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Zone	Lumens	%Lamp	%Fixt
0-20	251.85	N.A.	10.30
0-30	526.55	N.A.	21.60
0-40	847.10	N.A.	34.80
0-60	1488.06	N.A.	61.10
0-80	2107.69	N.A.	86.60
0-90	2236.38	N.A.	91.80
10-90	2170.53	N.A.	89.10
20-40	595.25	N.A.	24.40
20-50	917.84	N.A.	37.70
40-70	995.59	N.A.	40.90
60-80	619.64	N.A.	25.40
70-80	265.00	N.A.	10.90
80-90	128.69	N.A.	5.30
90-110	140.27	N.A.	5.80
90-120	177.95	N.A.	7.30
90-130	192.72	N.A.	7.90
90-150	197.48	N.A.	8.10
90-180	198.50	N.A.	8.20
110-180	58.24	N.A.	2.40
0-180	2434.89	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	65.85
10-20	186.00
20-30	274.70
30-40	320.55
40-50	322.59
50-60	318.37
60-70	354.64
70-80	265.00
80-90	128.69
90-100	80.78
100-110	59.49
110-120	37.69
120-130	14.77
130-140	3.85
140-150	0.91
150-160	0.57
160-170	0.33
170-180	0.11

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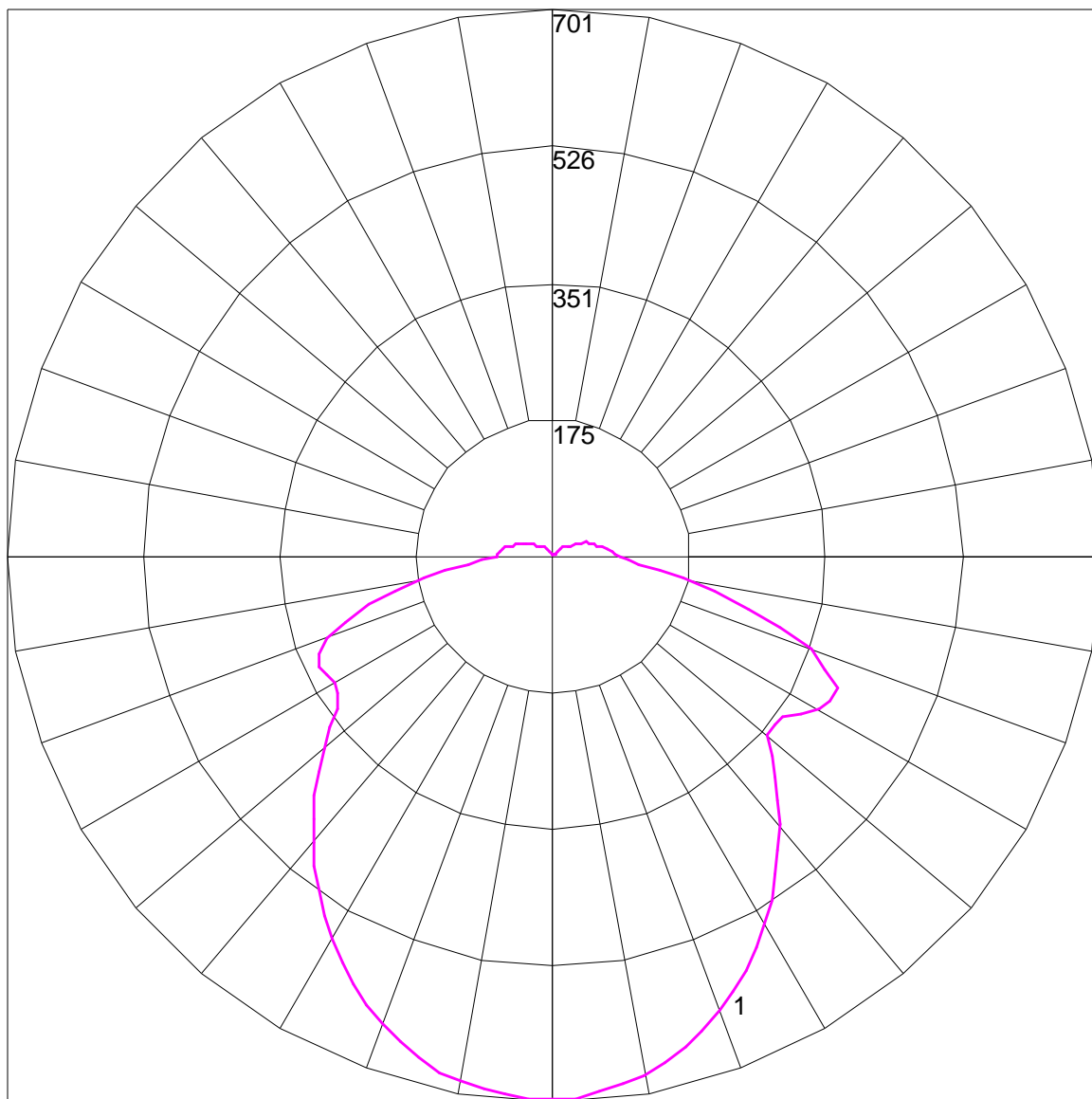
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	113	113	113	113	107	107	107	100	100	100	95	95	95	92
1	104	99	94	89	101	96	91	87	90	86	82	84	81	78	79	77	75	72
2	94	84	77	70	90	82	75	69	77	71	66	72	67	63	68	64	60	58
3	85	73	64	57	82	71	63	56	67	60	54	63	57	52	59	54	50	47
4	77	64	55	48	74	62	54	47	59	51	45	56	49	44	52	47	42	40
5	71	57	48	41	68	56	47	40	53	45	39	50	43	38	47	41	36	34
6	65	51	42	35	63	50	41	35	47	40	34	45	38	33	42	37	32	30
7	61	47	37	31	58	45	37	31	43	35	30	41	34	29	39	33	28	26
8	56	42	34	28	54	41	33	27	39	32	27	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	49	36	28	22	48	35	27	22	34	27	22	32	26	21	31	25	21	19

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00645_1 ~ OR1917GV-45L35K-EX-TF2-DR19FO90.IES

POLAR GRAPH



Maximum Candela = 701.019 Located At Horizontal Angle = 157.5, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (0 - 180)