

**IES Report**

**WingRail® | 107 | Black Baffle with EdgeSoft™ | 90 CRI | SO**

107-WG-XX-4-48-XX-XX-XX-XX-X-X-Z-SO-359-BB-X-XX-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	49	51	52	53
Total Lumens, 4' rail length (1219mm)	1175	1212	1236	1261
Lumens per foot (305mm)	294	303	309	315
Input Power (W), 4' rail length (1219mm)	24.1	24.1	24.1	24.1
Watts per foot (305mm)	6.1	6.1	6.1	6.1
CRI	96	96	96	96

Due to the large number of options in Vode's product offering, most Vode IES reports are factored™ reports prepared from source reports. Source reports are the IES test reports prepared for Vode by an NVLAP accredited photometric test laboratory. Factored reports are based on data from the Vode source reports.

If the data above is in black, it is directly from a Vode source report. If it is in grey, it is factored from Vode source reports. Reference details on Vode source reports can be found on the [IES File Finder](#) page on [vode.com](#).



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_107\_WG\_SO\_359\_BB.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] L071704219 (SOURCE REPORT FOR REFERENCE)  
[TESTLAB] REPORT BASED ON DATA PRODUCED BY NVLAP ACCREDITED LAB  
[ISSUEDATE] 11/1/2017  
[MANUFAC] Vode Lighting  
[LUMCAT] 107-WG-48-Z-SO-359-BB  
[LUMINAIRE] WingRail LED, 48", 3500K, 90 CRI, zipper board,  
[MORE] black baffle, standard output  
[TEST PROCEDURE] IESNA:LM-79-08

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1236
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	51
Total Luminaire Watts	24.12
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.62
Spacing Criterion (90-270)	1.04
Spacing Criterion (Diagonal)	1.06
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.13 ft
Luminous Width (90-270)	3.83 ft
Luminous Height	0.00 ft

**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	20982	14128	7575
55	17784	10561	4739
65	12640	7162	3041
75	6712	4266	2039
85	35	528	1003

CANDELA TABULATION

	<u>0</u>	<u>5</u>	<u>10</u>	<u>15</u>	<u>20</u>	<u>25</u>	<u>30</u>	<u>35</u>	<u>40</u>	<u>45</u>
0.0	732.921	732.921	732.921	732.921	732.921	732.921	732.921	732.921	732.921	732.921
5.0	809.237	801.343	799.558	798.803	798.252	794.274	791.326	787.685	783.982	779.790
10.0	843.550	835.788	833.462	831.606	829.617	823.783	818.774	812.940	806.147	799.211
15.0	861.665	856.790	853.842	850.955	847.385	839.633	831.739	822.548	812.532	802.230
20.0	867.979	867.428	862.757	858.922	851.027	840.664	829.199	817.265	804.637	790.429
25.0	861.798	864.889	858.646	852.669	843.826	830.096	814.378	795.641	776.016	756.534
30.0	843.826	849.446	840.113	832.983	819.529	801.271	780.208	756.187	732.238	706.228
35.0	811.288	818.152	807.248	795.784	775.537	752.066	725.026	698.955	667.590	637.531
37.5	791.938	792.010	780.484	767.509	748.568	723.588	694.426	660.389	626.413	595.262
40.0	761.879	763.531	751.312	737.378	714.734	686.460	655.166	621.955	586.888	555.727
42.5	726.056	729.076	715.693	699.771	673.149	642.886	610.286	579.890	541.936	510.918
45.0	686.939	685.981	672.119	654.962	630.605	601.157	567.875	533.562	493.833	462.539
47.5	638.632	638.765	626.280	607.951	578.585	550.239	517.099	482.440	448.882	417.384
50.0	586.204	584.970	572.546	553.258	528.554	500.483	467.894	431.582	397.616	367.078
52.5	530.482	527.524	518.119	499.596	474.137	447.301	416.007	385.468	352.808	323.779
55.0	472.280	469.608	460.071	443.047	417.241	391.782	366.731	338.120	307.030	280.469
57.5	413.406	410.040	400.840	384.989	365.639	342.026	317.465	288.844	262.222	237.925
60.0	355.205	351.155	344.638	331.459	312.997	292.342	270.596	248.013	224.471	203.133
62.5	300.033	295.708	290.017	277.593	262.630	244.994	228.460	209.447	186.864	168.677
65.0	247.330	243.964	240.669	231.336	217.617	203.541	187.894	171.839	156.193	140.138
67.5	199.012	196.615	194.147	185.426	175.338	164.638	152.419	138.414	125.654	113.710
70.0	154.816	153.041	150.562	144.799	138.006	129.224	120.238	109.120	98.818	89.281
72.5	115.566	114.883	112.139	108.701	103.836	97.655	91.066	84.140	76.857	69.523
75.0	80.427	80.090	78.305	76.796	73.634	70.064	65.810	60.670	56.069	51.122
77.5	49.827	49.827	49.133	48.317	47.491	45.706	43.442	40.902	37.954	34.996
80.0	24.296	24.225	24.572	24.633	25.051	25.112	24.776	24.154	23.123	21.757
85.0	0.143	0.143	0.143	0.275	0.347	0.275	0.408	0.683	1.377	2.132
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Angles      Horizontal Angles

	<u>50</u>	<u>55</u>	<u>60</u>	<u>65</u>	<u>70</u>	<u>75</u>	<u>80</u>	<u>85</u>	<u>90</u>	<u>95</u>
0.0	732.921	732.921	732.921	732.921	732.921	732.921	732.921	732.921	732.921	732.921
5.0	775.812	768.947	760.512	752.546	747.201	743.488	739.918	730.310	722.905	715.907
10.0	792.142	783.911	770.732	758.248	749.945	739.643	732.238	717.346	705.330	692.498
15.0	792.010	779.657	763.868	748.221	734.777	719.957	708.421	691.193	673.771	655.309
20.0	775.465	755.983	736.012	716.040	699.434	681.452	666.835	645.833	621.608	599.240
25.0	735.114	713.980	689.959	667.243	646.384	623.812	606.166	582.634	557.858	531.991
30.0	680.146	655.238	625.525	599.719	575.423	551.616	532.950	508.582	482.368	455.195
35.0	608.093	578.381	550.310	523.270	497.260	472.964	453.064	429.532	401.258	374.350
37.5	564.998	536.928	508.654	481.613	455.675	431.317	413.059	390.895	365.364	335.305
40.0	524.780	493.139	465.416	438.039	413.131	389.660	369.485	347.657	322.198	296.942
42.5	479.349	447.851	421.433	394.669	370.097	347.106	327.553	307.581	285.549	259.753
45.0	431.929	402.971	377.308	350.747	327.349	304.286	287.201	268.597	248.013	224.614
47.5	387.875	355.480	330.908	306.071	284.182	265.924	248.217	231.754	210.130	189.751
50.0	339.079	312.936	289.190	266.608	244.443	228.939	211.640	197.299	181.172	161.680
52.5	297.493	270.861	248.972	228.796	209.926	193.178	178.500	165.934	151.317	135.538
55.0	256.387	231.611	211.783	194.412	177.878	162.374	149.879	139.383	125.858	112.679
57.5	216.373	196.687	178.775	163.608	147.818	136.772	126.205	116.872	105.958	93.809
60.0	183.569	165.393	149.950	135.946	123.940	113.373	104.315	96.278	87.292	77.275
62.5	152.215	137.659	124.899	113.506	102.867	93.677	86.404	79.611	72.746	64.576
65.0	125.521	113.373	102.663	93.259	84.548	77.612	70.819	65.331	59.497	53.530
67.5	102.459	92.443	83.314	75.827	68.768	62.934	57.783	53.326	49.072	43.789
70.0	80.702	72.950	66.361	60.670	55.519	51.061	46.808	43.299	39.739	36.230

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**CANDELA TABULATION - (Cont.)**

<b>72.5</b>	62.383	56.549	51.612	47.216	43.574	40.147	36.853	33.966	31.365	28.825
<b>75.0</b>	46.665	42.544	38.495	35.547	32.732	30.335	28.274	26.357	24.429	22.369
<b>77.5</b>	32.181	29.509	27.244	25.184	23.674	22.165	20.522	19.288	18.115	16.881
<b>80.0</b>	20.247	18.870	17.564	16.534	15.575	14.821	13.933	13.178	12.495	11.873
<b>85.0</b>	2.887	3.091	3.427	3.703	3.978	3.978	4.121	4.121	4.049	4.253
<b>90.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**Vert. Horizontal Angles**  
**Angles**

	<b>100</b>	<b>105</b>	<b>110</b>	<b>115</b>	<b>120</b>	<b>125</b>	<b>130</b>	<b>135</b>	<b>140</b>	<b>145</b>
<b>0.0</b>	732.921	732.921	732.921	732.921	732.921	732.921	732.921	732.921	732.921	732.921
<b>5.0</b>	711.440	701.556	692.498	685.430	680.564	676.790	671.639	665.672	660.317	654.136
<b>10.0</b>	680.901	665.734	649.128	635.684	622.843	612.275	598.689	584.827	572.546	559.164
<b>15.0</b>	638.489	616.468	593.334	572.200	552.095	531.920	508.786	486.142	465.487	446.066
<b>20.0</b>	579.890	552.228	522.311	493.894	465.355	435.907	408.112	378.604	351.982	325.288
<b>25.0</b>	506.665	474.963	438.722	404.614	370.240	337.090	300.166	269.290	242.107	215.485
<b>30.0</b>	426.850	391.231	352.186	314.650	277.868	243.209	208.488	180.826	157.570	138.149
<b>35.0</b>	347.381	311.977	268.668	231.479	197.778	167.657	140.678	119.207	101.837	87.363
<b>37.5</b>	305.041	270.382	234.498	198.880	167.239	139.036	112.139	94.228	80.294	70.003
<b>40.0</b>	267.087	234.151	197.370	164.903	136.639	112.139	92.504	77.204	66.229	57.232
<b>42.5</b>	231.958	201.419	167.311	138.149	113.434	92.575	74.664	62.659	53.805	46.869
<b>45.0</b>	198.533	170.952	140.750	115.433	93.809	76.041	61.761	52.020	44.951	39.525
<b>47.5</b>	166.076	143.973	117.626	95.870	77.755	63.138	52.224	44.401	38.709	34.037
<b>50.0</b>	141.372	120.574	97.726	79.744	64.852	53.050	43.513	37.332	33.079	29.855
<b>52.5</b>	117.902	100.052	81.182	66.433	54.142	44.747	37.811	32.599	29.233	26.765
<b>55.0</b>	97.859	83.171	68.901	55.998	46.114	38.709	33.150	29.101	26.418	24.225
<b>57.5</b>	81.529	69.523	58.262	48.450	39.800	33.425	29.029	25.877	23.878	22.307
<b>60.0</b>	67.249	57.650	49.409	40.973	34.588	29.855	26.214	23.746	21.961	20.584
<b>62.5</b>	56.753	49.072	41.453	35.210	30.263	26.418	23.266	21.553	20.247	19.013
<b>65.0</b>	47.420	41.310	35.822	30.539	26.561	23.195	21.134	19.696	18.533	17.707
<b>67.5</b>	38.984	34.384	29.988	26.214	23.195	20.859	19.074	17.707	16.810	16.126
<b>70.0</b>	32.252	28.825	25.459	22.715	20.247	18.187	16.810	15.647	15.025	14.413
<b>72.5</b>	26.010	23.542	21.134	18.809	16.952	15.575	14.545	13.729	13.178	12.760
<b>75.0</b>	20.584	18.666	16.952	15.371	14.066	13.036	12.281	11.526	11.118	10.985
<b>77.5</b>	15.647	14.413	13.311	12.148	11.189	10.231	9.680	9.476	9.262	9.200
<b>80.0</b>	11.118	10.435	9.741	8.986	8.303	7.752	7.415	7.344	7.344	7.273
<b>85.0</b>	4.121	3.978	3.845	3.774	3.641	3.845	3.978	3.978	4.182	4.325
<b>90.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**Vert. Horizontal Angles**  
**Angles**

	<b>150</b>	<b>155</b>	<b>160</b>	<b>165</b>	<b>170</b>	<b>175</b>	<b>180</b>
<b>0.0</b>	732.921	732.921	732.921	732.921	732.921	732.921	732.921
<b>5.0</b>	648.649	645.150	641.998	639.112	636.368	634.175	630.533
<b>10.0</b>	548.179	539.264	531.369	525.188	519.496	516.344	510.439
<b>15.0</b>	428.359	413.335	400.503	389.314	381.837	377.237	370.719
<b>20.0</b>	301.889	284.315	269.841	258.927	250.900	245.341	240.740
<b>25.0</b>	196.064	180.142	167.994	158.324	152.215	148.573	145.350
<b>30.0</b>	123.389	111.659	102.938	96.013	92.024	89.699	88.250
<b>35.0</b>	76.724	69.584	64.505	60.802	58.609	57.161	55.998
<b>37.5</b>	62.312	56.620	52.775	49.480	47.828	46.940	46.257
<b>40.0</b>	50.714	46.594	43.574	41.453	40.351	39.464	38.842
<b>42.5</b>	42.412	39.117	37.057	35.272	34.384	33.905	33.487
<b>45.0</b>	36.373	33.905	32.048	30.814	29.917	29.713	29.376
<b>47.5</b>	31.498	29.509	28.274	27.387	26.765	26.561	26.357
<b>50.0</b>	27.866	26.418	25.459	24.704	24.358	24.154	24.021

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**CANDELA TABULATION - (Cont.)**

<b>52.5</b>	25.112	24.092	23.266	22.787	22.440	22.236	22.093
<b>55.0</b>	22.919	22.093	21.553	21.206	21.002	20.930	20.859
<b>57.5</b>	21.206	20.726	20.176	19.900	19.625	19.625	19.492
<b>60.0</b>	19.829	19.288	18.941	18.809	18.595	18.595	18.391
<b>62.5</b>	18.462	18.054	17.779	17.636	17.564	17.564	17.564
<b>65.0</b>	17.024	16.810	16.606	16.473	16.473	16.473	16.473
<b>67.5</b>	15.647	15.514	15.371	15.371	15.239	15.300	15.371
<b>70.0</b>	14.209	14.066	13.862	13.862	14.005	13.933	13.862
<b>72.5</b>	12.628	12.424	12.495	12.495	12.628	12.556	12.628
<b>75.0</b>	10.914	10.843	10.914	10.914	11.118	11.047	11.118
<b>77.5</b>	9.058	9.200	9.333	9.404	9.476	9.476	9.476
<b>80.0</b>	7.477	7.477	7.691	7.752	7.823	7.966	7.966
<b>85.0</b>	4.325	4.529	4.672	4.804	4.876	4.876	4.937
<b>90.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	248.53	N.A.	20.10
0-30	489.15	N.A.	39.60
0-40	738.58	N.A.	59.70
0-60	1106.91	N.A.	89.50
0-80	1230.69	N.A.	99.50
0-90	1236.34	N.A.	100.00
10-90	1168.45	N.A.	94.50
20-40	490.05	N.A.	39.60
20-50	705.62	N.A.	57.10
40-70	456.07	N.A.	36.90
60-80	123.78	N.A.	10.00
70-80	36.04	N.A.	2.90
80-90	5.65	N.A.	0.50
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	1236.34	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	67.89
10-20	180.63
20-30	240.63
30-40	249.43
40-50	215.57
50-60	152.76
60-70	87.74
70-80	36.04
80-90	5.65
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

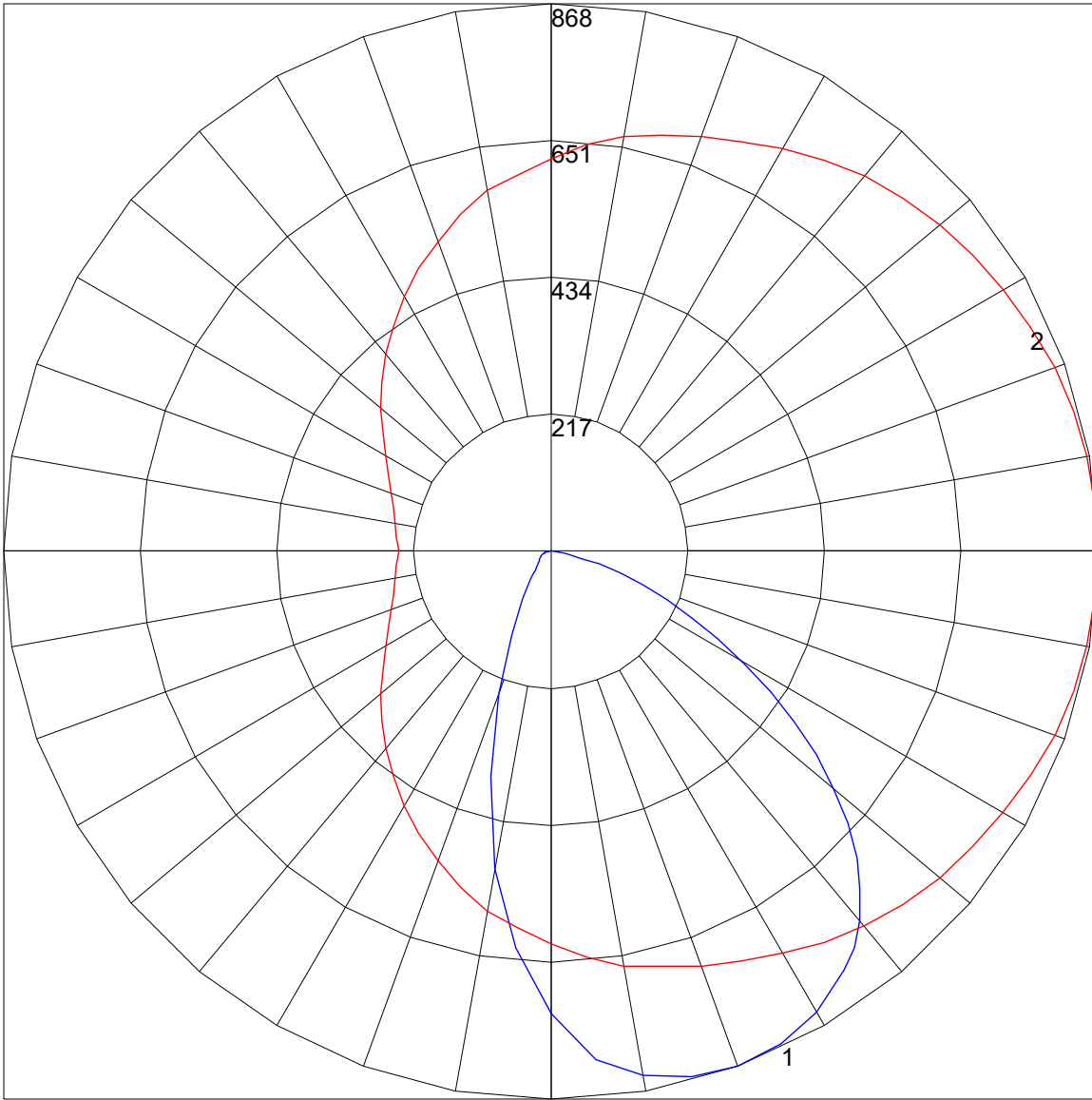
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	107	104	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77
3	95	86	79	73	93	84	78	73	82	76	72	79	74	70	76	73	69	67
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53
6	76	64	56	51	74	63	56	50	62	55	50	60	54	49	58	53	49	47
7	71	59	51	45	69	58	51	45	57	50	45	55	49	45	54	49	44	43
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	40	39
9	62	50	43	38	61	50	42	38	49	42	37	48	42	37	47	41	37	35
10	59	47	39	35	58	46	39	35	45	39	34	44	38	34	44	38	34	33

POLAR GRAPH



Maximum Candela = 867.979 Located At Horizontal Angle = 0, Vertical Angle = 20  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (20) (Through Max. Cd.)