

**IES Report**

**WingRail® | 107 | Black Baffle with EdgeSoft™ | 80 CRI | LO**

107-WG-XX-4-48-XX-XX-XX-XX-X-X-Z-LO-35-BB-X-XX-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	46	48	48	49
Total Lumens, 4' rail length (1219mm)	681	703	717	731
Lumens per foot (305mm)	170	176	179	183
Input Power (W), 4' rail length (1219mm)	15.0	15.0	15.0	15.0
Watts per foot (305mm)	3.8	3.8	3.8	3.8
CRI	85	85	85	85

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\_LO\_35\_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-LO-35-BB  
[LUMINAIRE] WingRail LED, 48", 3500K, 80 CRI, zipper board,  
[MORE] black baffle, low output  
[TEST PROCEDURE] IESNA:LM-79-08

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	715
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	48
Total Luminaire Watts	14.95
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	12137	8172	4382
55	10287	6109	2741
65	7311	4143	1759
75	3882	2468	1179
85	21	306	580

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>
<b>0.0</b>	423.944	423.944	423.944	423.944	423.944	423.944	423.944	423.944	423.944	423.944
<b>5.0</b>	468.088	463.522	462.489	462.053	461.734	459.433	457.728	455.622	453.480	451.055
<b>10.0</b>	487.936	483.446	482.101	481.027	479.876	476.502	473.605	470.230	466.301	462.289
<b>15.0</b>	498.414	495.594	493.889	492.219	490.154	485.670	481.104	475.788	469.994	464.035
<b>20.0</b>	502.066	501.748	499.046	496.827	492.261	486.266	479.635	472.732	465.427	457.209
<b>25.0</b>	498.491	500.279	496.668	493.210	488.095	480.154	471.062	460.224	448.872	437.603
<b>30.0</b>	488.095	491.346	485.948	481.823	474.041	463.480	451.297	437.402	423.549	408.504
<b>35.0</b>	469.274	473.245	466.938	460.306	448.595	435.019	419.378	404.297	386.155	368.768
<b>37.5</b>	458.082	458.123	451.456	443.951	432.995	418.546	401.678	381.990	362.337	344.318
<b>40.0</b>	440.695	441.650	434.582	426.523	413.425	397.070	378.969	359.758	339.474	321.450
<b>42.5</b>	419.974	421.720	413.979	404.769	389.370	371.865	353.009	335.427	313.473	295.531
<b>45.0</b>	397.347	396.793	388.775	378.851	364.762	347.728	328.477	308.629	285.648	267.547
<b>47.5</b>	369.405	369.482	362.260	351.658	334.672	318.275	299.106	279.058	259.647	241.428
<b>50.0</b>	339.079	338.365	331.179	320.022	305.732	289.495	270.645	249.641	229.994	212.329
<b>52.5</b>	306.847	305.136	299.696	288.982	274.256	258.733	240.631	222.967	204.075	187.284
<b>55.0</b>	273.182	271.636	266.119	256.272	241.345	226.619	212.129	195.579	177.596	162.232
<b>57.5</b>	239.127	237.180	231.858	222.690	211.497	197.839	183.632	167.076	151.677	137.623
<b>60.0</b>	205.462	203.119	199.349	191.726	181.047	169.100	156.521	143.458	129.841	117.498
<b>62.5</b>	173.548	171.047	167.755	160.568	151.913	141.712	132.148	121.151	108.088	97.568
<b>65.0</b>	143.063	141.116	139.210	133.812	125.876	117.734	108.684	99.397	90.347	81.060
<b>67.5</b>	115.115	113.728	112.301	107.256	101.421	95.232	88.164	80.063	72.682	65.773
<b>70.0</b>	89.550	88.524	87.090	83.756	79.827	74.747	69.549	63.118	57.159	51.643
<b>72.5</b>	66.847	66.452	64.865	62.876	60.062	56.487	52.675	48.669	44.456	40.214
<b>75.0</b>	46.521	46.327	45.294	44.421	42.592	40.527	38.067	35.093	32.432	29.571
<b>77.5</b>	28.821	28.821	28.420	27.948	27.470	26.438	25.128	23.659	21.954	20.243
<b>80.0</b>	14.054	14.012	14.213	14.248	14.490	14.526	14.331	13.971	13.375	12.585
<b>85.0</b>	0.083	0.083	0.083	0.159	0.201	0.159	0.236	0.395	0.796	1.233
<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. 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>
<b>0.0</b>	423.944	423.944	423.944	423.944	423.944	423.944	423.944	423.944	423.944	423.944
<b>5.0</b>	448.754	444.783	439.904	435.296	432.204	430.057	427.992	422.434	418.151	414.103
<b>10.0</b>	458.200	453.439	445.816	438.594	433.792	427.833	423.549	414.935	407.985	400.563
<b>15.0</b>	458.123	450.978	441.845	432.794	425.018	416.446	409.773	399.808	389.730	379.051
<b>20.0</b>	448.553	437.284	425.732	414.180	404.575	394.173	385.718	373.570	359.558	346.619
<b>25.0</b>	425.213	412.988	399.094	385.954	373.889	360.832	350.625	337.014	322.683	307.720
<b>30.0</b>	393.418	379.010	361.823	346.896	332.843	319.072	308.275	294.180	279.017	263.299
<b>35.0</b>	351.740	334.554	318.317	302.676	287.631	273.577	262.066	248.455	232.100	216.536
<b>37.5</b>	326.813	310.576	294.221	278.580	263.577	249.487	238.926	226.106	211.338	193.951
<b>40.0</b>	303.549	285.247	269.211	253.375	238.968	225.392	213.722	201.096	186.369	171.761
<b>42.5</b>	277.270	259.051	243.770	228.289	214.076	200.777	189.467	177.914	165.170	150.249
<b>45.0</b>	249.841	233.091	218.247	202.883	189.349	176.009	166.126	155.365	143.458	129.924
<b>47.5</b>	224.359	205.621	191.408	177.041	164.380	153.819	143.576	134.054	121.546	109.758
<b>50.0</b>	196.134	181.012	167.277	154.214	141.393	132.425	122.419	114.124	104.796	93.521
<b>52.5</b>	172.079	156.674	144.013	132.343	121.428	111.740	103.250	95.981	87.526	78.399
<b>55.0</b>	148.302	133.971	122.502	112.454	102.890	93.922	86.695	80.623	72.800	65.177
<b>57.5</b>	125.157	113.770	103.409	94.636	85.503	79.113	73.001	67.602	61.289	54.262
<b>60.0</b>	106.182	95.668	86.736	78.635	71.691	65.578	60.339	55.690	50.492	44.698
<b>62.5</b>	88.046	79.626	72.245	65.655	59.501	54.186	49.979	46.049	42.079	37.353
<b>65.0</b>	72.605	65.578	59.383	53.944	48.905	44.893	40.964	37.789	34.415	30.963
<b>67.5</b>	59.265	53.472	48.191	43.861	39.778	36.403	33.423	30.845	28.385	25.329
<b>70.0</b>	46.681	42.197	38.385	35.093	32.114	29.535	27.075	25.045	22.986	20.957

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**CANDELA TABULATION - (Cont.)**

<b>72.5</b>	36.084	32.710	29.854	27.311	25.205	23.222	21.317	19.647	18.142	16.673
<b>75.0</b>	26.992	24.609	22.267	20.561	18.933	17.547	16.355	15.246	14.130	12.939
<b>77.5</b>	18.614	17.069	15.759	14.567	13.694	12.821	11.871	11.157	10.478	9.764
<b>80.0</b>	11.711	10.915	10.160	9.564	9.009	8.573	8.059	7.623	7.227	6.868
<b>85.0</b>	1.670	1.788	1.982	2.142	2.301	2.301	2.384	2.384	2.342	2.460
<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**

	<u><b>100</b></u>	<u><b>105</b></u>	<u><b>110</b></u>	<u><b>115</b></u>	<u><b>120</b></u>	<u><b>125</b></u>	<u><b>130</b></u>	<u><b>135</b></u>	<u><b>140</b></u>	<u><b>145</b></u>
<b>0.0</b>	423.944	423.944	423.944	423.944	423.944	423.944	423.944	423.944	423.944	423.944
<b>5.0</b>	411.519	405.802	400.563	396.474	393.660	391.477	388.497	385.046	381.948	378.373
<b>10.0</b>	393.854	385.081	375.476	367.700	360.272	354.159	346.300	338.282	331.179	323.438
<b>15.0</b>	369.322	356.584	343.203	330.978	319.349	307.679	294.298	281.200	269.252	258.019
<b>20.0</b>	335.427	319.426	302.121	285.684	269.176	252.142	236.065	218.996	203.597	188.157
<b>25.0</b>	293.071	274.733	253.771	234.041	214.158	194.983	173.625	155.766	140.042	124.643
<b>30.0</b>	246.903	226.300	203.715	182.003	160.728	140.680	120.596	104.595	91.143	79.910
<b>35.0</b>	200.936	180.457	155.406	133.895	114.401	96.978	81.373	68.953	58.906	50.533
<b>37.5</b>	176.445	156.397	135.641	115.038	96.736	80.423	64.865	54.504	46.445	40.492
<b>40.0</b>	154.491	135.440	114.165	95.385	79.036	64.865	53.507	44.657	38.309	33.105
<b>42.5</b>	134.172	116.507	96.778	79.910	65.614	53.548	43.188	36.244	31.122	27.110
<b>45.0</b>	114.838	98.884	81.414	66.770	54.262	43.984	35.724	30.090	26.001	22.862
<b>47.5</b>	96.064	83.278	68.039	55.454	44.976	36.521	30.208	25.683	22.390	19.688
<b>50.0</b>	81.774	69.744	56.528	46.126	37.512	30.686	25.169	21.594	19.134	17.269
<b>52.5</b>	68.198	57.873	46.958	38.427	31.317	25.883	21.871	18.856	16.909	15.482
<b>55.0</b>	56.605	48.109	39.854	32.391	26.674	22.390	19.175	16.833	15.281	14.012
<b>57.5</b>	47.159	40.214	33.701	28.025	23.022	19.334	16.791	14.968	13.812	12.903
<b>60.0</b>	38.899	33.347	28.580	23.700	20.007	17.269	15.163	13.735	12.703	11.906
<b>62.5</b>	32.828	28.385	23.978	20.367	17.505	15.281	13.458	12.467	11.711	10.998
<b>65.0</b>	27.429	23.895	20.721	17.665	15.364	13.417	12.225	11.393	10.720	10.242
<b>67.5</b>	22.550	19.889	17.346	15.163	13.417	12.065	11.033	10.242	9.723	9.328
<b>70.0</b>	18.656	16.673	14.726	13.139	11.711	10.520	9.723	9.051	8.691	8.337
<b>72.5</b>	15.045	13.617	12.225	10.880	9.806	9.009	8.413	7.941	7.623	7.381
<b>75.0</b>	11.906	10.797	9.806	8.891	8.136	7.540	7.104	6.667	6.431	6.354
<b>77.5</b>	9.051	8.337	7.699	7.027	6.472	5.918	5.599	5.481	5.357	5.322
<b>80.0</b>	6.431	6.036	5.634	5.198	4.803	4.484	4.289	4.248	4.248	4.207
<b>85.0</b>	2.384	2.301	2.224	2.183	2.106	2.224	2.301	2.301	2.419	2.502
<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**

	<u><b>150</b></u>	<u><b>155</b></u>	<u><b>160</b></u>	<u><b>165</b></u>	<u><b>170</b></u>	<u><b>175</b></u>	<u><b>180</b></u>
<b>0.0</b>	423.944	423.944	423.944	423.944	423.944	423.944	423.944
<b>5.0</b>	375.199	373.175	371.352	369.682	368.095	366.827	364.720
<b>10.0</b>	317.084	311.927	307.360	303.785	300.493	298.670	295.254
<b>15.0</b>	247.776	239.086	231.663	225.191	220.866	218.206	214.435
<b>20.0</b>	174.622	164.457	156.084	149.771	145.128	141.913	139.252
<b>25.0</b>	113.410	104.200	97.173	91.580	88.046	85.939	84.075
<b>30.0</b>	71.372	64.587	59.543	55.537	53.230	51.885	51.047
<b>35.0</b>	44.380	40.250	37.312	35.170	33.901	33.064	32.391
<b>37.5</b>	36.043	32.751	30.527	28.621	27.665	27.152	26.756
<b>40.0</b>	29.335	26.951	25.205	23.978	23.340	22.827	22.467
<b>42.5</b>	24.532	22.626	21.435	20.402	19.889	19.612	19.370
<b>45.0</b>	21.039	19.612	18.538	17.824	17.305	17.187	16.992
<b>47.5</b>	18.219	17.069	16.355	15.841	15.482	15.364	15.246
<b>50.0</b>	16.119	15.281	14.726	14.290	14.089	13.971	13.894

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**CANDELA TABULATION - (Cont.)**

<b>52.5</b>	14.526	13.936	13.458	13.181	12.980	12.862	12.779
<b>55.0</b>	13.257	12.779	12.467	12.266	12.148	12.107	12.065
<b>57.5</b>	12.266	11.989	11.670	11.511	11.352	11.352	11.275
<b>60.0</b>	11.470	11.157	10.956	10.880	10.756	10.756	10.638
<b>62.5</b>	10.679	10.443	10.284	10.201	10.160	10.160	10.160
<b>65.0</b>	9.847	9.723	9.605	9.528	9.528	9.528	9.528
<b>67.5</b>	9.051	8.974	8.891	8.891	8.815	8.850	8.891
<b>70.0</b>	8.219	8.136	8.018	8.018	8.101	8.059	8.018
<b>72.5</b>	7.304	7.186	7.227	7.227	7.304	7.263	7.304
<b>75.0</b>	6.313	6.272	6.313	6.313	6.431	6.390	6.431
<b>77.5</b>	5.239	5.322	5.398	5.440	5.481	5.481	5.481
<b>80.0</b>	4.325	4.325	4.449	4.484	4.525	4.608	4.608
<b>85.0</b>	2.502	2.620	2.702	2.779	2.820	2.820	2.856
<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	143.76	N.A.	20.10
0-30	282.94	N.A.	39.60
0-40	427.22	N.A.	59.70
0-60	640.27	N.A.	89.50
0-80	711.87	N.A.	99.50
0-90	715.14	N.A.	100.00
10-90	675.87	N.A.	94.50
20-40	283.46	N.A.	39.60
20-50	408.15	N.A.	57.10
40-70	263.81	N.A.	36.90
60-80	71.60	N.A.	10.00
70-80	20.85	N.A.	2.90
80-90	3.27	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	715.14	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	39.27
10-20	104.48
20-30	139.19
30-40	144.28
40-50	124.69
50-60	88.36
60-70	50.75
70-80	20.85
80-90	3.27
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

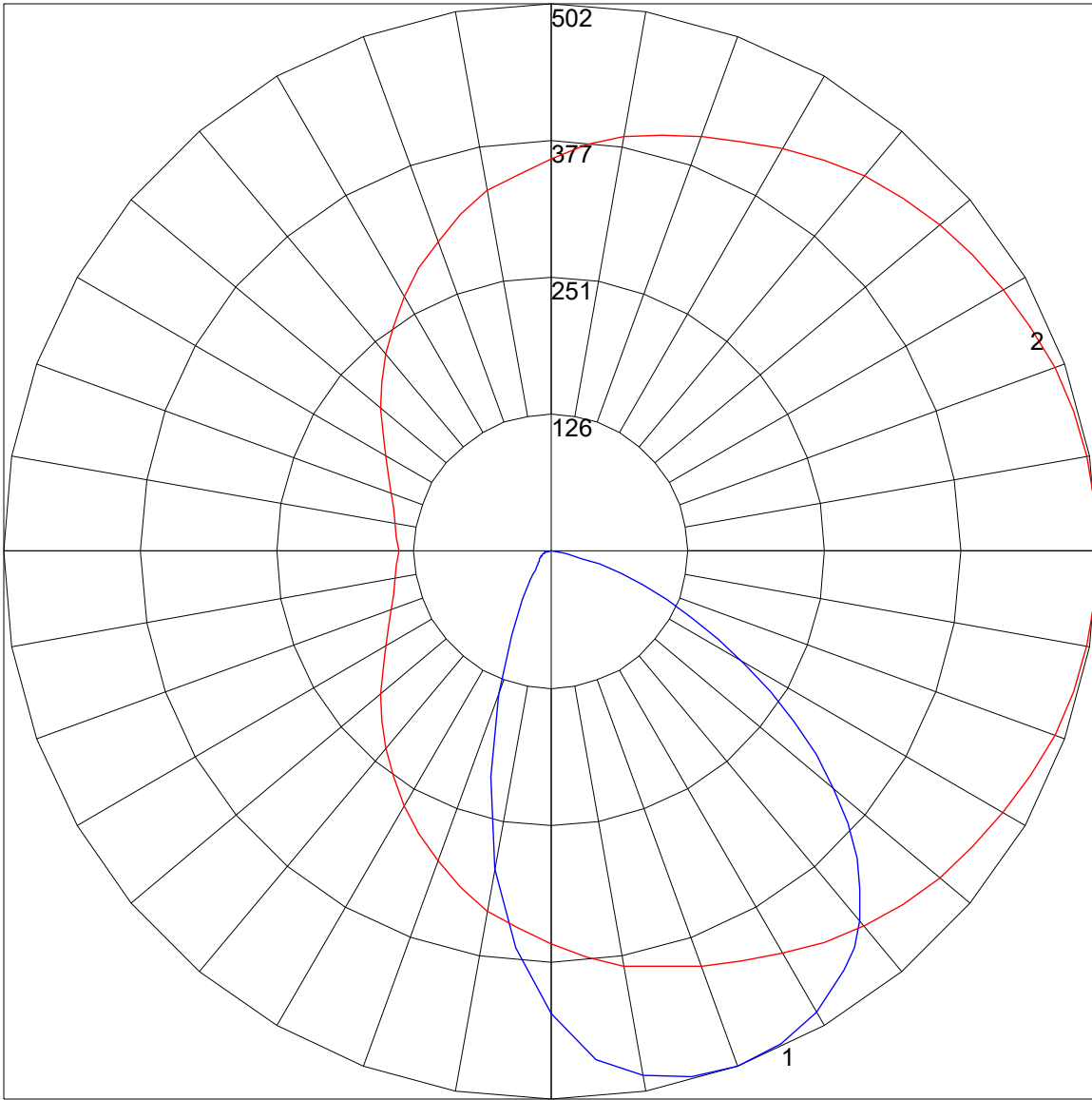
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	77	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 = 502.066 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.)