

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	57	59	60	60
Total Lumens, 4' rail length (1219mm)	787	812	828	828
Lumens per foot (305mm)	197	203	207	207
Input Power (W), 4' rail length (1219mm)	13.8	13.8	13.8	13.8
Watts per foot (305mm)	3.5	3.5	3.5	3.5
CRI	82	82	82	82

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] L121911520 (SOURCE REPORT FOR REFERENCE)

[TESTLAB] REPORT BASED ON DATA FROM NVLAP ACCREDITED LAB

[ISSUE DATE] 12/23/2019

[MANUFAC] Vode Lighting

[LUMCAT] 107-WG-48-Z-LO-35-BB-AL

[LUMINAIRE] WingRail LED, 48", 3500K, 80 CRI, zipper board, black baffle,

[MORE] low output, clear anodized finish

[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	828
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	60
Total Luminaire Watts	13.82
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.80
Spacing Criterion (90-270)	1.06
Spacing Criterion (Diagonal)	1.14
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.11 ft
Luminous Width (90-270)	3.84 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	17193	11208	5362
55	16664	9262	3679
65	14615	7345	2574
75	11755	5782	1841
85	8153	4773	952

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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	411.475	411.475	411.475	411.475	411.475	411.475	411.475	411.475	411.475	411.475
5	449.622	449.471	449.082	448.305	447.284	446.020	444.268	442.470	440.284	437.999
10	485.112	484.868	483.795	482.241	479.811	476.795	473.396	469.307	464.592	459.488
15	510.876	510.243	508.399	506.160	501.978	497.408	491.817	485.257	478.059	470.525
20	528.769	527.649	525.173	521.136	515.353	508.544	500.523	491.283	481.029	470.328
25	537.909	536.500	532.997	527.458	519.436	510.000	499.160	486.666	472.955	458.954
30	538.495	536.889	531.831	524.395	513.793	501.253	487.154	470.867	453.560	435.858
35	529.546	527.069	520.991	511.171	497.652	481.997	464.302	444.123	423.562	402.021
40	509.611	506.601	499.015	486.910	471.157	450.979	429.542	406.638	383.160	360.209
45	477.526	474.510	464.934	450.979	432.552	410.240	386.222	360.406	335.025	311.303
50	432.407	429.055	419.183	403.964	383.740	359.919	334.979	308.920	283.492	259.620
55	375.428	372.169	362.349	347.037	326.859	303.763	279.844	255.101	230.886	208.667
60	310.474	307.069	298.079	284.171	265.843	245.033	223.839	202.200	181.929	162.916
65	242.602	239.737	232.197	220.145	205.071	187.955	171.622	153.874	137.054	121.933
70	178.524	176.384	170.601	161.803	150.522	137.930	124.897	111.870	98.838	87.464
75	119.503	118.192	114.446	108.709	101.274	92.957	84.257	75.504	66.561	58.777
80	69.136	68.452	66.509	63.545	59.560	55.083	50.176	45.118	39.817	35.154
85	27.910	27.759	27.277	26.547	25.427	24.064	22.411	20.567	18.380	16.339
90	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	411.475	411.475	411.475	411.475	411.475	411.475	411.475	411.475	411.475	411.475
5	435.278	432.506	429.542	426.184	422.977	419.624	415.779	412.281	408.685	405.084
10	454.094	448.305	441.595	435.035	428.034	420.935	413.592	405.768	397.793	390.160
15	462.063	453.218	443.543	433.527	423.464	412.914	402.218	390.792	378.978	367.697
20	459.145	446.849	434.205	420.981	408.245	394.632	381.066	367.163	351.996	337.409
25	444.321	428.713	413.105	397.016	381.605	365.557	349.804	333.860	316.262	299.535
30	417.675	398.959	380.631	362.401	345.187	327.636	310.671	293.509	274.984	256.946
35	381.309	360.354	340.327	320.926	303.085	285.244	267.542	250.287	232.052	214.014
40	337.363	315.479	295.011	275.419	257.387	239.737	222.621	206.138	190.292	172.840
45	287.964	266.429	245.862	226.803	209.740	194.520	178.333	163.548	148.915	133.261
50	236.623	216.207	195.495	180.519	165.254	151.252	137.785	125.437	112.793	100.102
55	188.494	169.772	153.242	138.516	125.384	113.280	102.387	92.568	82.894	73.318
60	145.516	128.598	114.689	102.730	92.469	82.795	74.675	67.239	60.042	53.238
65	108.077	95.143	83.868	74.095	66.120	59.119	53.093	47.693	42.734	38.019
70	77.256	67.970	59.705	52.316	46.238	41.134	36.853	32.915	29.365	26.204
75	51.777	45.408	39.869	34.910	30.630	26.790	23.629	21.054	18.717	16.774
80	30.920	26.935	23.484	20.468	17.841	15.364	13.079	11.380	9.918	8.851
85	14.291	12.348	10.649	9.094	7.778	6.513	5.301	4.083	3.260	2.964
90	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>100</u>	<u>105</u>	<u>110</u>	<u>115</u>	<u>120</u>	<u>125</u>	<u>130</u>	<u>135</u>	<u>140</u>	<u>145</u>
0	411.475	411.475	411.475	411.475	411.475	411.475	411.475	411.475	411.475	411.475
5	401.343	397.793	393.953	390.450	386.901	383.740	380.677	377.615	374.941	372.412
10	382.185	374.065	365.899	357.976	349.804	342.368	335.223	328.025	321.755	316.019
15	355.836	343.343	330.844	318.548	306.049	294.234	283.052	271.481	261.760	252.665
20	322.242	306.246	289.959	274.062	257.334	241.877	227.238	212.750	200.402	189.219
25	282.129	263.366	244.400	225.927	206.724	189.515	173.420	157.911	145.075	133.945
30	238.177	218.150	198.024	178.669	159.077	141.967	126.701	112.503	101.320	91.936
35	193.308	175.607	155.527	136.810	118.627	103.362	90.480	78.909	70.105	62.913

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CANDELA TABULATION - (Cont.)

40	154.506	135.888	118.337	101.854	86.490	74.043	63.835	55.425	49.689	43.952
45	117.850	102.196	87.754	74.582	62.913	53.238	45.942	39.869	35.392	31.848
50	87.899	75.458	63.980	54.160	47.403	39.330	33.936	29.754	26.692	24.360
55	64.223	55.425	47.693	40.258	34.226	29.464	25.862	22.997	20.857	19.204
60	47.403	40.594	34.858	29.998	25.816	22.655	20.080	18.038	16.484	15.219
65	33.547	29.220	25.427	22.266	19.447	17.209	15.364	13.758	12.638	11.768
70	23.287	20.422	18.038	15.944	13.955	12.302	10.939	9.872	9.141	8.607
75	14.877	13.270	11.815	10.307	8.851	7.731	6.954	6.421	6.026	5.788
80	7.975	7.146	6.177	5.203	4.472	3.985	3.695	3.503	3.405	3.352
85	2.819	2.332	1.943	1.653	1.554	1.508	1.508	1.462	1.409	1.409
90	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>150</u>	<u>155</u>	<u>160</u>	<u>165</u>	<u>170</u>	<u>175</u>	<u>180</u>
0	411.475	411.475	411.475	411.475	411.475	411.475	411.475
5	370.324	368.428	366.821	365.464	364.681	364.246	363.956
10	310.863	306.437	302.598	299.634	297.494	296.183	295.794
15	244.644	237.742	231.664	227.145	223.787	221.891	221.015
20	179.643	171.425	164.424	159.274	155.678	153.340	152.662
25	124.561	116.876	110.606	105.891	102.631	100.642	100.056
30	84.303	78.132	73.266	69.716	67.338	65.830	65.441
35	57.223	52.896	49.932	47.305	45.652	44.677	44.341
40	40.014	37.045	34.812	33.257	32.236	31.604	31.407
45	29.220	27.324	25.914	24.894	24.261	23.873	23.728
50	22.556	21.245	20.277	19.592	19.157	18.914	18.862
55	17.992	17.162	16.530	16.043	15.706	15.556	15.463
60	14.343	13.711	13.270	12.934	12.737	12.592	12.545
65	11.136	10.747	10.452	10.208	10.115	10.017	10.017
70	8.265	8.021	7.876	7.731	7.679	7.679	7.679
75	5.638	5.545	5.493	5.446	5.446	5.446	5.446
80	3.352	3.352	3.352	3.352	3.352	3.405	3.405
85	1.311	1.166	1.021	0.922	0.829	0.777	0.777
90	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	142.93	N.A.	17.30
0-30	287.13	N.A.	34.70
0-40	443.55	N.A.	53.50
0-60	702.41	N.A.	84.80
0-80	817.62	N.A.	98.70
0-90	828.31	N.A.	100.00
10-90	789.83	N.A.	95.40
20-40	300.63	N.A.	36.30
20-50	445.22	N.A.	53.80
40-70	334.68	N.A.	40.40
60-80	115.21	N.A.	13.90
70-80	39.39	N.A.	4.80
80-90	10.68	N.A.	1.30
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	828.31	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	38.48
10-20	104.45
20-30	144.20
30-40	156.43
40-50	144.59
50-60	114.27
60-70	75.82
70-80	39.39
80-90	10.68
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

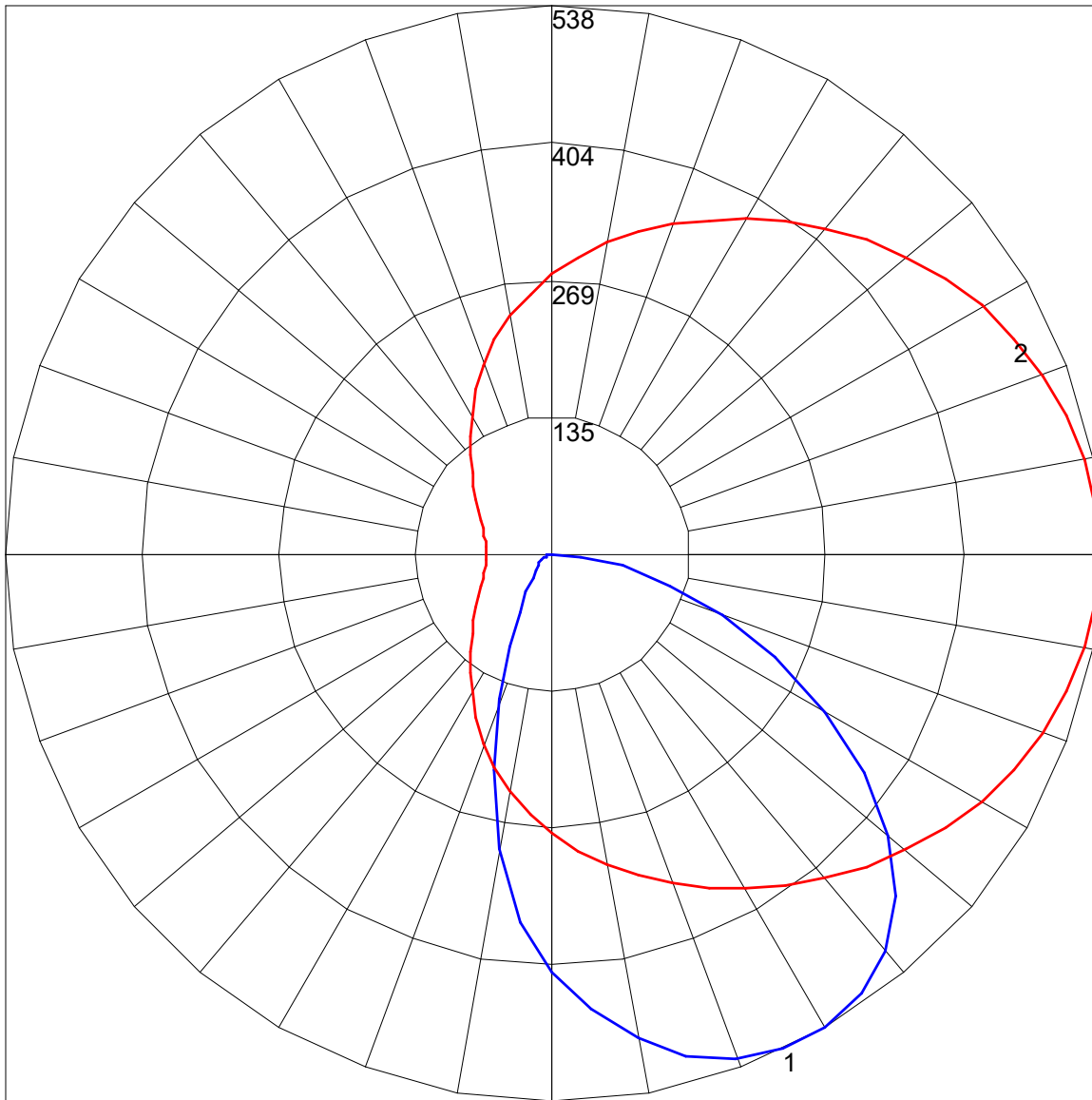
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76	74
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	73	69	66	63
4	86	74	66	60	83	73	66	60	71	64	59	68	63	58	66	61	57	55
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49
6	73	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43
7	68	56	47	42	67	55	47	42	53	46	41	52	46	41	51	45	41	39
8	64	51	43	38	62	50	43	37	49	42	37	48	42	37	47	41	37	35
9	60	47	39	34	59	47	39	34	46	39	34	44	38	34	44	38	34	32
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	41	35	31	29

POLAR GRAPH



Maximum Candela = 538.495 Located At Horizontal Angle = 0, Vertical Angle = 30
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Horizontal Cone Through Vertical Angle (30) (Through Max. Cd.)