

**IES Report**

**WingRail® | 107 | Diffuse | 90 CRI | LO**

107-WG-XX-4-48-XX-XX-XX-XX-X-X-Z-LO-359-D1-X-XX-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	68	70	72	73
Total Lumens, 4' rail length (1219mm)	935	964	984	994
Lumens per foot (305mm)	234	241	246	248
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	94	94	94	94

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\_359\_D1.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] L121911521 (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-359-D1-AL  
[LUMINAIRE] WingRail LED, 48", 3500K, 90 CRI, zipper board, diffuse lens,  
[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	984
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	71
Total Luminaire Watts	13.82
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.26
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.13 ft
Luminous Width (90-270)	3.85 ft
Luminous Height	0.00 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	6981	6955	6913
55	6707	6680	6619
65	6267	6266	6152
75	5462	5548	5313
85	3482	4004	3740

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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>
<b>0</b>	343.615	343.615	343.615	343.615	343.615	343.615	343.615	343.615	343.615	343.615
<b>5</b>	342.715	342.570	342.630	342.610	342.570	342.590	342.590	342.610	342.590	342.630
<b>10</b>	338.355	338.315	338.315	338.400	338.355	338.400	338.400	338.335	338.375	338.335
<b>15</b>	331.020	331.040	330.980	330.960	331.065	330.940	330.895	330.915	330.770	330.790
<b>20</b>	320.585	320.545	320.585	320.605	320.525	320.500	320.355	320.335	320.250	320.230
<b>25</b>	307.385	307.360	307.360	307.300	307.235	307.155	307.050	306.945	306.920	306.795
<b>30</b>	291.500	291.500	291.415	291.375	291.310	291.185	291.120	290.975	290.870	290.700
<b>35</b>	272.975	273.015	272.950	272.930	272.825	272.765	272.640	272.535	272.365	272.240
<b>40</b>	252.480	252.540	252.415	252.330	252.225	252.120	251.995	251.915	251.725	251.705
<b>45</b>	229.760	229.760	229.700	229.635	229.575	229.425	229.320	229.215	229.030	228.880
<b>50</b>	205.325	205.265	205.180	205.140	205.055	204.990	204.885	204.740	204.550	204.385
<b>55</b>	179.050	179.070	179.005	178.965	178.900	178.860	178.795	178.690	178.565	178.335
<b>60</b>	151.720	151.680	151.745	151.700	151.700	151.700	151.615	151.595	151.470	151.345
<b>65</b>	123.265	123.265	123.220	123.285	123.345	123.410	123.450	123.450	123.430	123.245
<b>70</b>	94.385	94.345	94.385	94.430	94.535	94.700	94.805	94.870	94.910	94.890
<b>75</b>	65.800	65.780	65.845	65.970	66.075	66.180	66.390	66.555	66.705	66.830
<b>80</b>	38.725	38.750	38.855	38.955	39.165	39.355	39.565	39.815	40.045	40.320
<b>85</b>	14.125	14.165	14.270	14.420	14.630	14.900	15.195	15.550	15.865	16.240
<b>90</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>
<b>0</b>	343.615	343.615	343.615	343.615	343.615	343.615	343.615	343.615	343.615
<b>5</b>	342.630	342.545	342.545	342.545	342.610	342.610	342.590	342.610	342.590
<b>10</b>	338.295	338.230	338.295	338.210	338.270	338.250	338.145	338.210	338.315
<b>15</b>	330.730	330.705	330.645	330.600	330.560	330.560	330.560	330.540	330.435
<b>20</b>	320.145	320.060	320.000	319.980	319.955	319.915	319.830	319.830	319.790
<b>25</b>	306.670	306.565	306.525	306.480	306.420	306.315	306.315	306.230	306.210
<b>30</b>	290.620	290.390	290.325	290.240	290.180	290.030	289.990	290.030	289.950
<b>35</b>	272.010	271.885	271.760	271.630	271.465	271.380	271.320	271.235	271.255
<b>40</b>	251.430	251.240	251.010	250.825	250.675	250.570	250.510	250.570	250.425
<b>45</b>	228.670	228.400	228.150	227.960	227.790	227.645	227.500	227.435	227.500
<b>50</b>	204.195	203.860	203.590	203.355	203.210	203.000	202.855	202.815	202.770
<b>55</b>	178.190	177.895	177.560	177.310	177.015	176.825	176.720	176.700	176.700
<b>60</b>	151.135	150.885	150.570	150.255	149.880	149.625	149.480	149.310	149.250
<b>65</b>	123.115	122.845	122.530	122.155	121.755	121.335	121.145	121.020	121.000
<b>70</b>	94.825	94.595	94.260	93.840	93.315	92.835	92.435	92.270	92.205
<b>75</b>	66.935	66.870	66.765	66.325	65.720	65.005	64.420	64.085	64.000
<b>80</b>	40.530	40.695	40.800	40.800	40.465	39.605	38.705	37.995	37.805
<b>85</b>	16.660	17.060	17.435	17.770	17.960	17.875	17.185	15.740	15.170
<b>90</b>	0.000	0.000	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	125.90	N.A.	12.80
0-30	267.28	N.A.	27.20
0-40	437.54	N.A.	44.50
0-60	773.08	N.A.	78.60
0-80	964.55	N.A.	98.00
0-90	984.03	N.A.	100.00
10-90	951.47	N.A.	96.70
20-40	311.64	N.A.	31.70
20-50	488.03	N.A.	49.60
40-70	456.93	N.A.	46.40
60-80	191.47	N.A.	19.50
70-80	70.08	N.A.	7.10
80-90	19.47	N.A.	2.00
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	984.03	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	32.56
10-20	93.34
20-30	141.38
30-40	170.26
40-50	176.39
50-60	159.15
60-70	121.39
70-80	70.08
80-90	19.47
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

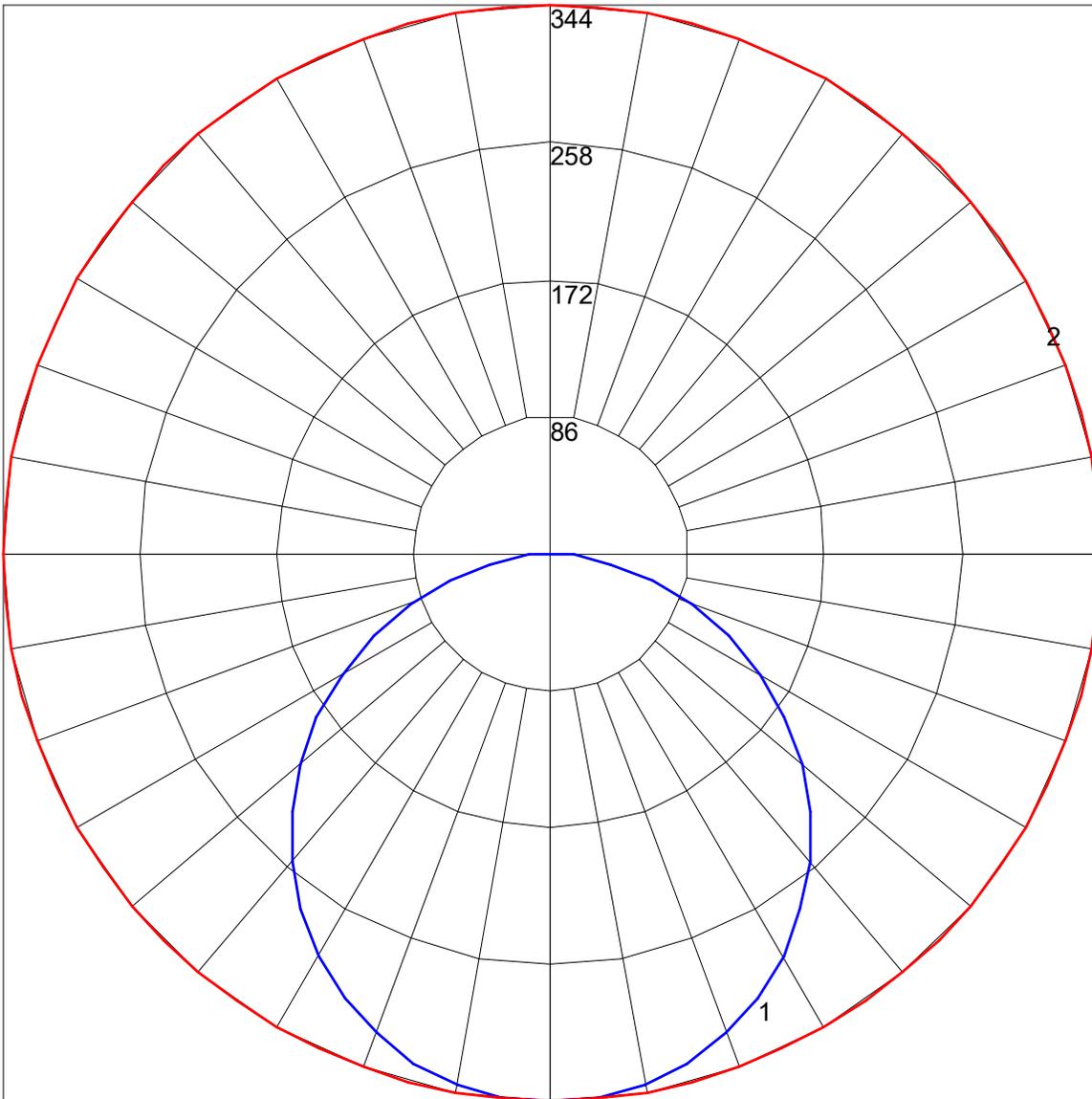
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

Effective Floor Cavity Reflectance 0.20

RC RW	80				70				50			30			10			0
	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	109	104	99	96	106	102	98	94	97	94	91	93	91	88	90	88	86	83
2	99	90	83	78	96	88	82	77	85	80	75	82	77	73	79	75	72	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	62	69	65	61	58
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	73	62	53	47	59	52	46	57	51	46	56	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	30
9	56	43	34	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

POLAR GRAPH



Maximum Candela = 343.615 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)  
# 2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)