

## IES Report

# WingRail® | 107 | Diffuse | 90 CRI | HO

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

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	73	75	77	77
Total Lumens, 4' rail length (1219mm)	3552	3664	3739	3777
Lumens per foot (305mm)	888	916	935	944
Input Power (W), 4' rail length (1219mm)	49.1	49.1	49.1	49.1
Watts per foot (305mm)	12.3	12.3	12.3	12.3
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\_HO\_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

[ISSUEDATE] 12/23/2019

[MANUFAC] Vode Lighting

[LUMCAT] 107-WG-48-Z-HO-359-D1-AL

[LUMINAIRE] WingRail LED, 48", 3500K, 90 CRI, zipper board, diffuse lens,

[MORE] high 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	3739
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	76
Total Luminaire Watts	49.06
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	26530	26428	26269
55	25487	25386	25153
65	23814	23810	23377
75	20757	21082	20190
85	13232	15214	14211

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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>	1305.737	1305.737	1305.737	1305.737	1305.737	1305.737	1305.737	1305.737	1305.737	1305.737
<b>5</b>	1302.317	1301.766	1301.994	1301.918	1301.766	1301.842	1301.842	1301.918	1301.842	1301.994
<b>10</b>	1285.749	1285.597	1285.597	1285.920	1285.749	1285.920	1285.920	1285.673	1285.825	1285.673
<b>15</b>	1257.876	1257.952	1257.724	1257.648	1258.047	1257.572	1257.401	1257.477	1256.926	1257.002
<b>20</b>	1218.223	1218.071	1218.223	1218.299	1217.995	1217.900	1217.349	1217.273	1216.950	1216.874
<b>25</b>	1168.063	1167.968	1167.968	1167.740	1167.493	1167.189	1166.790	1166.391	1166.296	1165.821
<b>30</b>	1107.700	1107.700	1107.377	1107.225	1106.978	1106.503	1106.256	1105.705	1105.306	1104.660
<b>35</b>	1037.305	1037.457	1037.210	1037.134	1036.735	1036.507	1036.032	1035.633	1034.987	1034.512
<b>40</b>	959.424	959.652	959.177	958.854	958.455	958.056	957.581	957.277	956.555	956.479
<b>45</b>	873.088	873.088	872.860	872.613	872.385	871.815	871.416	871.017	870.314	869.744
<b>50</b>	780.235	780.007	779.684	779.532	779.209	778.962	778.563	778.012	777.290	776.663
<b>55</b>	680.390	680.466	680.219	680.067	679.820	679.668	679.421	679.022	678.547	677.673
<b>60</b>	576.536	576.384	576.631	576.460	576.460	576.460	576.137	576.061	575.586	575.111
<b>65</b>	468.407	468.407	468.236	468.483	468.711	468.958	469.110	469.110	469.034	468.331
<b>70</b>	358.663	358.511	358.663	358.834	359.233	359.860	360.259	360.506	360.658	360.582
<b>75</b>	250.040	249.964	250.211	250.686	251.085	251.484	252.282	252.909	253.479	253.954
<b>80</b>	147.155	147.250	147.649	148.029	148.827	149.549	150.347	151.297	152.171	153.216
<b>85</b>	53.675	53.827	54.226	54.796	55.594	56.620	57.741	59.090	60.287	61.712
<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>	1305.737	1305.737	1305.737	1305.737	1305.737	1305.737	1305.737	1305.737	1305.737
<b>5</b>	1301.994	1301.671	1301.671	1301.671	1301.918	1301.918	1301.842	1301.918	1301.842
<b>10</b>	1285.521	1285.274	1285.521	1285.198	1285.426	1285.350	1284.951	1285.198	1285.597
<b>15</b>	1256.774	1256.679	1256.451	1256.280	1256.128	1256.128	1256.128	1256.052	1255.653
<b>20</b>	1216.551	1216.228	1216.000	1215.924	1215.829	1215.677	1215.354	1215.354	1215.202
<b>25</b>	1165.346	1164.947	1164.795	1164.624	1164.396	1163.997	1163.997	1163.674	1163.598
<b>30</b>	1104.356	1103.482	1103.235	1102.912	1102.684	1102.114	1101.962	1102.114	1101.810
<b>35</b>	1033.638	1033.163	1032.688	1032.194	1031.567	1031.244	1031.016	1030.693	1030.769
<b>40</b>	955.434	954.712	953.838	953.135	952.565	952.166	951.938	952.166	951.615
<b>45</b>	868.946	867.920	866.970	866.248	865.602	865.051	864.500	864.253	864.500
<b>50</b>	775.941	774.668	773.642	772.749	772.198	771.400	770.849	770.697	770.526
<b>55</b>	677.122	676.001	674.728	673.778	672.657	671.935	671.536	671.460	671.460
<b>60</b>	574.313	573.363	572.166	570.969	569.544	568.575	568.024	567.378	567.150
<b>65</b>	467.837	466.811	465.614	464.189	462.669	461.073	460.351	459.876	459.800
<b>70</b>	360.335	359.461	358.188	356.592	354.597	352.773	351.253	350.626	350.379
<b>75</b>	254.353	254.106	253.707	252.035	249.736	247.019	244.796	243.523	243.200
<b>80</b>	154.014	154.641	155.040	155.040	153.767	150.499	147.079	144.381	143.659
<b>85</b>	63.308	64.828	66.253	67.526	68.248	67.925	65.303	59.812	57.646
<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	478.43	N.A.	12.80
0-30	1015.67	N.A.	27.20
0-40	1662.66	N.A.	44.50
0-60	2937.71	N.A.	78.60
0-80	3665.3	N.A.	98.00
0-90	3739.3	N.A.	100.00
10-90	3615.57	N.A.	96.70
20-40	1184.24	N.A.	31.70
20-50	1854.51	N.A.	49.60
40-70	1736.34	N.A.	46.40
60-80	727.58	N.A.	19.50
70-80	266.30	N.A.	7.10
80-90	74.00	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	3739.3	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	123.73
10-20	354.69
20-30	537.24
30-40	647.00
40-50	670.27
50-60	604.78
60-70	461.29
70-80	266.30
80-90	74.00
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

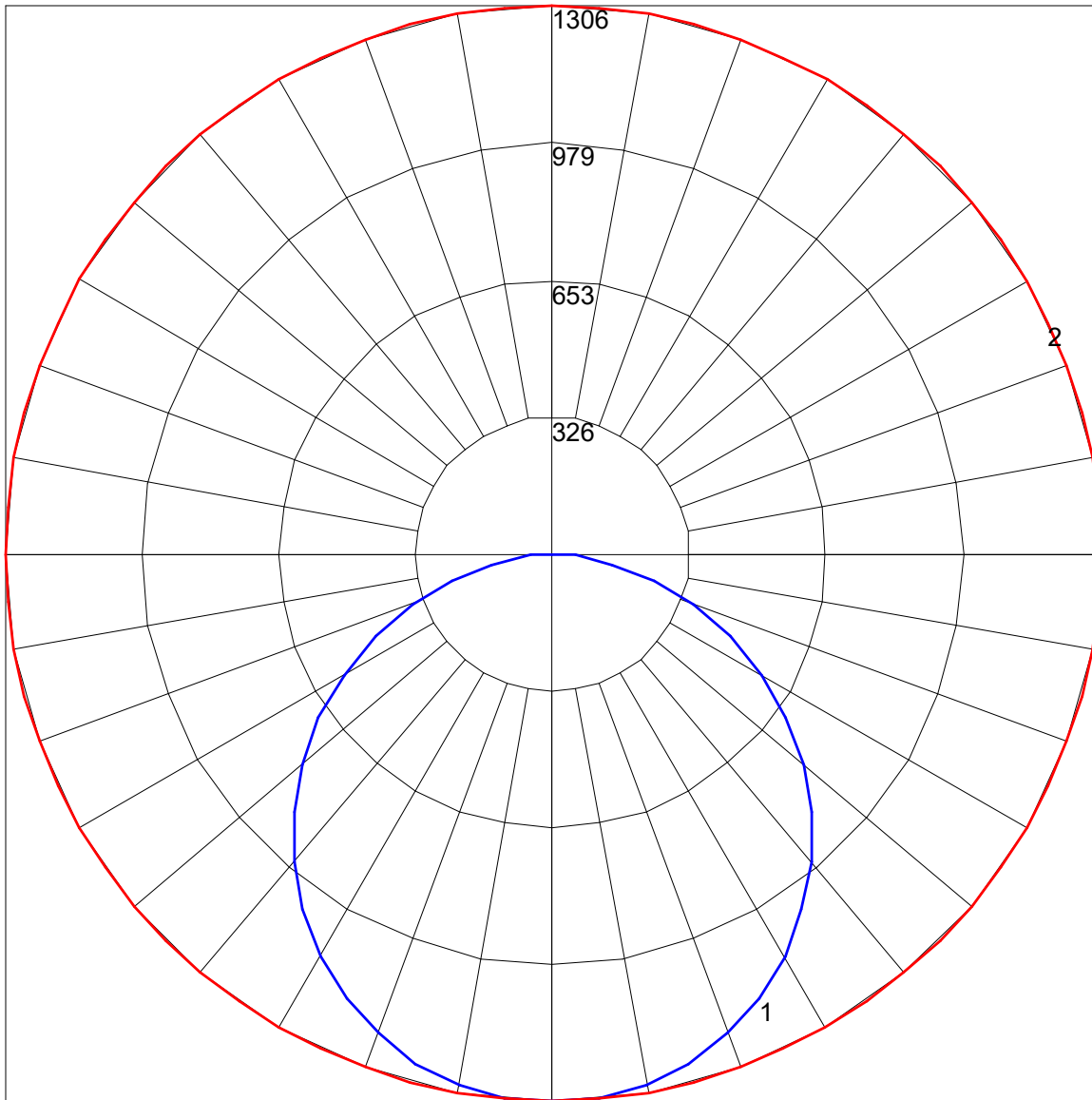
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	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 = 1305.737 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.)