

**IES Report**

**WingRail® | 107 | Diffuse | 80 CRI | LO**

107-WG-XX-4-48-XX-XX-XX-XX-X-X-Z-LO-35-D1-X-XX-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	79	81	83	83
Total Lumens, 4' rail length (1219mm)	1084	1119	1141	1141
Lumens per foot (305mm)	271	280	285	285
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\_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-35-D1-AL  
[LUMINAIRE] WingRail LED, 48", 3500K, 80 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	1141
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	83
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	8099	8068	8019
55	7780	7749	7678
65	7270	7268	7136
75	6336	6436	6163
85	4039	4644	4338

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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>	398.593	398.593	398.593	398.593	398.593	398.593	398.593	398.593	398.593	398.593
<b>5</b>	397.549	397.381	397.451	397.428	397.381	397.404	397.404	397.428	397.404	397.451
<b>10</b>	392.492	392.445	392.445	392.544	392.492	392.544	392.544	392.469	392.515	392.469
<b>15</b>	383.983	384.006	383.937	383.914	384.035	383.890	383.838	383.861	383.693	383.716
<b>20</b>	371.879	371.832	371.879	371.902	371.809	371.780	371.612	371.589	371.490	371.467
<b>25</b>	356.567	356.538	356.538	356.468	356.393	356.300	356.178	356.056	356.027	355.882
<b>30</b>	338.140	338.140	338.041	337.995	337.920	337.775	337.699	337.531	337.409	337.212
<b>35</b>	316.651	316.697	316.622	316.599	316.477	316.407	316.262	316.141	315.943	315.798
<b>40</b>	292.877	292.946	292.801	292.703	292.581	292.459	292.314	292.221	292.001	291.978
<b>45</b>	266.522	266.522	266.452	266.377	266.307	266.133	266.011	265.889	265.675	265.501
<b>50</b>	238.177	238.107	238.009	237.962	237.864	237.788	237.667	237.498	237.278	237.087
<b>55</b>	207.698	207.721	207.646	207.599	207.524	207.478	207.402	207.280	207.135	206.869
<b>60</b>	175.995	175.949	176.024	175.972	175.972	175.972	175.873	175.850	175.705	175.560
<b>65</b>	142.987	142.987	142.935	143.011	143.080	143.156	143.202	143.202	143.179	142.964
<b>70</b>	109.487	109.440	109.487	109.539	109.661	109.852	109.974	110.049	110.096	110.072
<b>75</b>	76.328	76.305	76.380	76.525	76.647	76.769	77.012	77.204	77.378	77.523
<b>80</b>	44.921	44.950	45.072	45.188	45.431	45.652	45.895	46.185	46.452	46.771
<b>85</b>	16.385	16.431	16.553	16.727	16.971	17.284	17.626	18.038	18.403	18.838
<b>90</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**Vert. 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>	398.593	398.593	398.593	398.593	398.593	398.593	398.593	398.593	398.593
<b>5</b>	397.451	397.352	397.352	397.352	397.428	397.428	397.404	397.428	397.404
<b>10</b>	392.422	392.347	392.422	392.324	392.393	392.370	392.248	392.324	392.445
<b>15</b>	383.647	383.618	383.548	383.496	383.450	383.450	383.450	383.426	383.305
<b>20</b>	371.368	371.270	371.200	371.177	371.148	371.101	371.003	371.003	370.956
<b>25</b>	355.737	355.615	355.569	355.517	355.447	355.325	355.325	355.227	355.204
<b>30</b>	337.119	336.852	336.777	336.678	336.609	336.435	336.388	336.435	336.342
<b>35</b>	315.532	315.387	315.242	315.091	314.899	314.801	314.731	314.633	314.656
<b>40</b>	291.659	291.438	291.172	290.957	290.783	290.661	290.592	290.661	290.493
<b>45</b>	265.257	264.944	264.654	264.434	264.236	264.068	263.900	263.825	263.900
<b>50</b>	236.866	236.478	236.164	235.892	235.724	235.480	235.312	235.265	235.213
<b>55</b>	206.700	206.358	205.970	205.680	205.337	205.117	204.995	204.972	204.972
<b>60</b>	175.317	175.027	174.661	174.296	173.861	173.565	173.397	173.200	173.130
<b>65</b>	142.813	142.500	142.135	141.700	141.236	140.749	140.528	140.383	140.360
<b>70</b>	109.997	109.730	109.342	108.854	108.245	107.689	107.225	107.033	106.958
<b>75</b>	77.645	77.569	77.447	76.937	76.235	75.406	74.727	74.339	74.240
<b>80</b>	47.015	47.206	47.328	47.328	46.939	45.942	44.898	44.074	43.854
<b>85</b>	19.326	19.790	20.225	20.613	20.834	20.735	19.935	18.258	17.597
<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	146.05	N.A.	12.80
0-30	310.05	N.A.	27.20
0-40	507.55	N.A.	44.50
0-60	896.78	N.A.	78.60
0-80	1118.88	N.A.	98.00
0-90	1141.47	N.A.	100.00
10-90	1103.7	N.A.	96.70
20-40	361.50	N.A.	31.70
20-50	566.11	N.A.	49.60
40-70	530.04	N.A.	46.40
60-80	222.10	N.A.	19.50
70-80	81.29	N.A.	7.10
80-90	22.59	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	1141.47	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	37.77
10-20	108.27
20-30	164.00
30-40	197.50
40-50	204.61
50-60	184.62
60-70	140.81
70-80	81.29
80-90	22.59
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

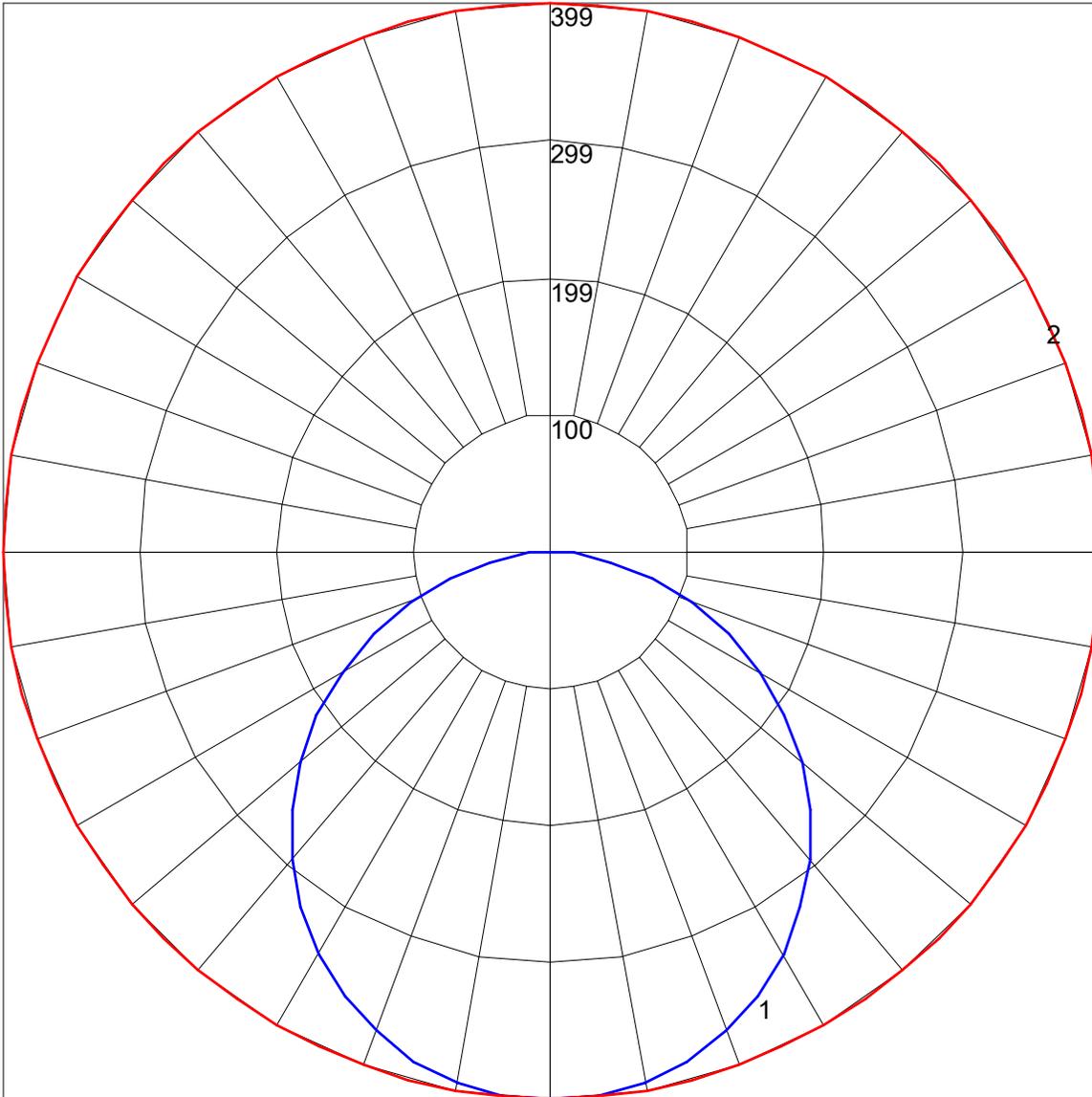
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84	
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	74	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	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27	
10	53	39	32	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24	

POLAR GRAPH



Maximum Candela = 398.593 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.)