

**IES Report**

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

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

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	91	93	95	95
Total Lumens, 4' rail length (1219mm)	2169	2237	2283	2283
Lumens per foot (305mm)	542	559	571	571
Input Power (W), 4' rail length (1219mm)	24.1	24.1	24.1	24.1
Watts per foot (305mm)	6.1	6.1	6.1	6.1
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\_SO\_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-SO-35-D1-AL  
[LUMINAIRE] WingRail LED, 48", 3500K, 80 CRI, zipper board, diffuse lens,  
[MORE] standard 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	2283
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	95
Total Luminaire Watts	23.92
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	16197	16135	16038
55	15561	15499	15357
65	14539	14537	14272
75	12673	12871	12326
85	8079	9288	8676

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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>	797.187	797.187	797.187	797.187	797.187	797.187	797.187	797.187	797.187	797.187
<b>5</b>	795.099	794.762	794.902	794.855	794.762	794.809	794.809	794.855	794.809	794.902
<b>10</b>	784.984	784.891	784.891	785.088	784.984	785.088	785.088	784.937	785.030	784.937
<b>15</b>	767.966	768.013	767.874	767.827	768.071	767.781	767.676	767.723	767.386	767.433
<b>20</b>	743.757	743.664	743.757	743.804	743.618	743.560	743.224	743.177	742.980	742.934
<b>25</b>	713.133	713.075	713.075	712.936	712.785	712.600	712.356	712.112	712.054	711.764
<b>30</b>	676.280	676.280	676.083	675.990	675.839	675.549	675.398	675.062	674.818	674.424
<b>35</b>	633.302	633.395	633.244	633.198	632.954	632.815	632.525	632.281	631.887	631.597
<b>40</b>	585.754	585.893	585.603	585.406	585.162	584.918	584.628	584.443	584.002	583.956
<b>45</b>	533.043	533.043	532.904	532.753	532.614	532.266	532.022	531.779	531.350	531.002
<b>50</b>	476.354	476.215	476.018	475.925	475.728	475.577	475.333	474.997	474.556	474.173
<b>55</b>	415.396	415.442	415.292	415.199	415.048	414.955	414.804	414.561	414.271	413.737
<b>60</b>	351.990	351.898	352.048	351.944	351.944	351.944	351.747	351.700	351.410	351.120
<b>65</b>	285.975	285.975	285.870	286.021	286.160	286.311	286.404	286.404	286.358	285.928
<b>70</b>	218.973	218.880	218.973	219.078	219.321	219.704	219.948	220.098	220.191	220.145
<b>75</b>	152.656	152.610	152.760	153.050	153.294	153.538	154.025	154.408	154.756	155.046
<b>80</b>	89.842	89.900	90.144	90.376	90.863	91.304	91.791	92.371	92.904	93.542
<b>85</b>	32.770	32.863	33.106	33.454	33.942	34.568	35.252	36.076	36.807	37.677
<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>	797.187	797.187	797.187	797.187	797.187	797.187	797.187	797.187	797.187
<b>5</b>	794.902	794.704	794.704	794.704	794.855	794.855	794.809	794.855	794.809
<b>10</b>	784.844	784.694	784.844	784.647	784.786	784.740	784.496	784.647	784.891
<b>15</b>	767.294	767.236	767.096	766.992	766.899	766.899	766.899	766.853	766.609
<b>20</b>	742.736	742.539	742.400	742.354	742.296	742.203	742.006	742.006	741.913
<b>25</b>	711.474	711.231	711.138	711.034	710.894	710.651	710.651	710.454	710.407
<b>30</b>	674.238	673.705	673.554	673.357	673.218	672.870	672.777	672.870	672.684
<b>35</b>	631.063	630.773	630.483	630.182	629.799	629.602	629.462	629.265	629.312
<b>40</b>	583.318	582.877	582.343	581.914	581.566	581.322	581.183	581.322	580.986
<b>45</b>	530.514	529.888	529.308	528.867	528.473	528.136	527.800	527.649	527.800
<b>50</b>	473.732	472.955	472.329	471.784	471.447	470.960	470.624	470.531	470.426
<b>55</b>	413.401	412.716	411.939	411.359	410.675	410.234	409.990	409.944	409.944
<b>60</b>	350.633	350.053	349.322	348.592	347.722	347.130	346.794	346.399	346.260
<b>65</b>	285.627	285.000	284.270	283.400	282.472	281.497	281.056	280.766	280.720
<b>70</b>	219.994	219.460	218.683	217.709	216.491	215.377	214.449	214.066	213.916
<b>75</b>	155.289	155.138	154.895	153.874	152.470	150.812	149.454	148.677	148.480
<b>80</b>	94.030	94.412	94.656	94.656	93.879	91.884	89.796	88.148	87.708
<b>85</b>	38.651	39.579	40.449	41.226	41.667	41.470	39.869	36.517	35.194
<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	292.09	N.A.	12.80
0-30	620.09	N.A.	27.20
0-40	1015.1	N.A.	44.50
0-60	1793.55	N.A.	78.60
0-80	2237.76	N.A.	98.00
0-90	2282.94	N.A.	100.00
10-90	2207.4	N.A.	96.70
20-40	723.01	N.A.	31.70
20-50	1132.23	N.A.	49.60
40-70	1060.08	N.A.	46.40
60-80	444.21	N.A.	19.50
70-80	162.58	N.A.	7.10
80-90	45.18	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	2282.94	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	75.54
10-20	216.55
20-30	328.00
30-40	395.01
40-50	409.22
50-60	369.23
60-70	281.63
70-80	162.58
80-90	45.18
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

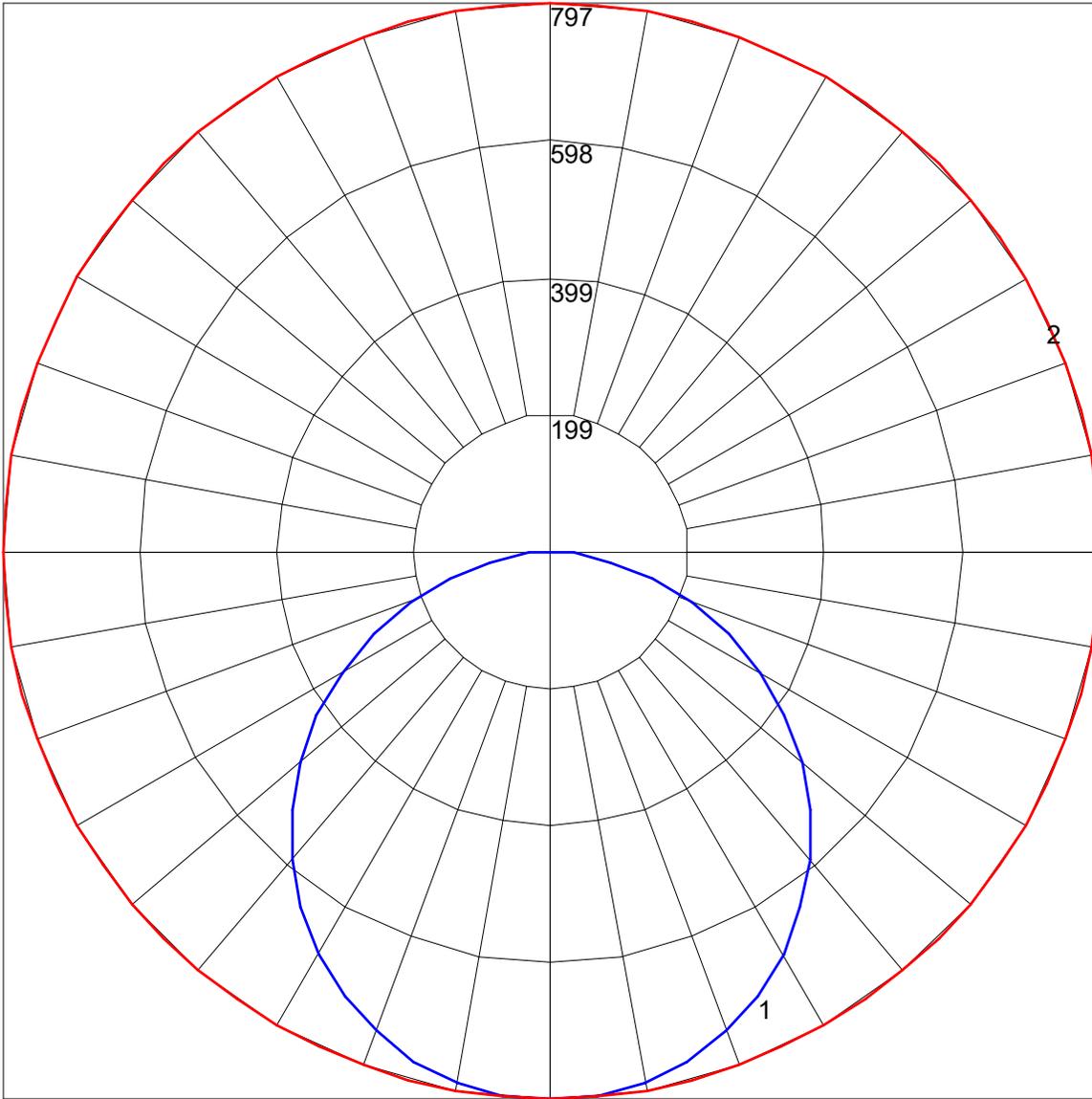
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	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	61	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 = 797.187 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.)