

**IES Report**

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

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

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	84	87	89	89
Total Lumens, 4' rail length (1219mm)	4121	4251	4337	4337
Lumens per foot (305mm)	1030	1063	1084	1084
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	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\_HO\_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-HO-35-D1-AL  
[LUMINAIRE] WingRail LED, 48", 3500K, 80 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	4330
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	88
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	30719	30601	30416
55	29512	29394	29124
65	27574	27570	27068
75	24035	24411	23377
85	15322	17616	16455

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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>	1511.906	1511.906	1511.906	1511.906	1511.906	1511.906	1511.906	1511.906	1511.906	1511.906
<b>5</b>	1507.946	1507.308	1507.572	1507.484	1507.308	1507.396	1507.396	1507.484	1507.396	1507.572
<b>10</b>	1488.762	1488.586	1488.586	1488.960	1488.762	1488.960	1488.960	1488.674	1488.850	1488.674
<b>15</b>	1456.488	1456.576	1456.312	1456.224	1456.686	1456.136	1455.938	1456.026	1455.388	1455.476
<b>20</b>	1410.574	1410.398	1410.574	1410.662	1410.310	1410.200	1409.562	1409.474	1409.100	1409.012
<b>25</b>	1352.494	1352.384	1352.384	1352.120	1351.834	1351.482	1351.020	1350.558	1350.448	1349.898
<b>30</b>	1282.600	1282.600	1282.226	1282.050	1281.764	1281.214	1280.928	1280.290	1279.828	1279.080
<b>35</b>	1201.090	1201.266	1200.980	1200.892	1200.430	1200.166	1199.616	1199.154	1198.406	1197.856
<b>40</b>	1110.912	1111.176	1110.626	1110.252	1109.790	1109.328	1108.778	1108.426	1107.590	1107.502
<b>45</b>	1010.944	1010.944	1010.680	1010.394	1010.130	1009.470	1009.008	1008.546	1007.732	1007.072
<b>50</b>	903.430	903.166	902.792	902.616	902.242	901.956	901.494	900.856	900.020	899.294
<b>55</b>	787.820	787.908	787.622	787.446	787.160	786.984	786.698	786.236	785.686	784.674
<b>60</b>	667.568	667.392	667.678	667.480	667.480	667.480	667.106	667.018	666.468	665.918
<b>65</b>	542.366	542.366	542.168	542.454	542.718	543.004	543.180	543.180	543.092	542.278
<b>70</b>	415.294	415.118	415.294	415.492	415.954	416.680	417.142	417.428	417.604	417.516
<b>75</b>	289.520	289.432	289.718	290.268	290.730	291.192	292.116	292.842	293.502	294.052
<b>80</b>	170.390	170.500	170.962	171.402	172.326	173.162	174.086	175.186	176.198	177.408
<b>85</b>	62.150	62.326	62.788	63.448	64.372	65.560	66.858	68.420	69.806	71.456
<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>	1511.906	1511.906	1511.906	1511.906	1511.906	1511.906	1511.906	1511.906	1511.906
<b>5</b>	1507.572	1507.198	1507.198	1507.198	1507.484	1507.484	1507.396	1507.484	1507.396
<b>10</b>	1488.498	1488.212	1488.498	1488.124	1488.388	1488.300	1487.838	1488.124	1488.586
<b>15</b>	1455.212	1455.102	1454.838	1454.640	1454.464	1454.464	1454.464	1454.376	1453.914
<b>20</b>	1408.638	1408.264	1408.000	1407.912	1407.802	1407.626	1407.252	1407.252	1407.076
<b>25</b>	1349.348	1348.886	1348.710	1348.512	1348.248	1347.786	1347.786	1347.412	1347.324
<b>30</b>	1278.728	1277.716	1277.430	1277.056	1276.792	1276.132	1275.956	1276.132	1275.780
<b>35</b>	1196.844	1196.294	1195.744	1195.172	1194.446	1194.072	1193.808	1193.434	1193.522
<b>40</b>	1106.292	1105.456	1104.444	1103.630	1102.970	1102.508	1102.244	1102.508	1101.870
<b>45</b>	1006.148	1004.960	1003.860	1003.024	1002.276	1001.638	1001.000	1000.714	1001.000
<b>50</b>	898.458	896.984	895.796	894.762	894.124	893.200	892.562	892.386	892.188
<b>55</b>	784.036	782.738	781.264	780.164	778.866	778.030	777.568	777.480	777.480
<b>60</b>	664.994	663.894	662.508	661.122	659.472	658.350	657.712	656.964	656.700
<b>65</b>	541.706	540.518	539.132	537.482	535.722	533.874	533.038	532.488	532.400
<b>70</b>	417.230	416.218	414.744	412.896	410.586	408.474	406.714	405.988	405.702
<b>75</b>	294.514	294.228	293.766	291.830	289.168	286.022	283.448	281.974	281.600
<b>80</b>	178.332	179.058	179.520	179.520	178.046	174.262	170.302	167.178	166.342
<b>85</b>	73.304	75.064	76.714	78.188	79.024	78.650	75.614	69.256	66.748
<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	553.97	N.A.	12.80
0-30	1176.04	N.A.	27.20
0-40	1925.19	N.A.	44.50
0-60	3401.56	N.A.	78.60
0-80	4244.03	N.A.	98.00
0-90	4329.72	N.A.	100.00
10-90	4186.45	N.A.	96.70
20-40	1371.22	N.A.	31.70
20-50	2147.32	N.A.	49.60
40-70	2010.49	N.A.	46.40
60-80	842.47	N.A.	19.50
70-80	308.35	N.A.	7.10
80-90	85.69	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	4329.72	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	143.27
10-20	410.70
20-30	622.07
30-40	749.15
40-50	776.10
50-60	700.27
60-70	534.12
70-80	308.35
80-90	85.69
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

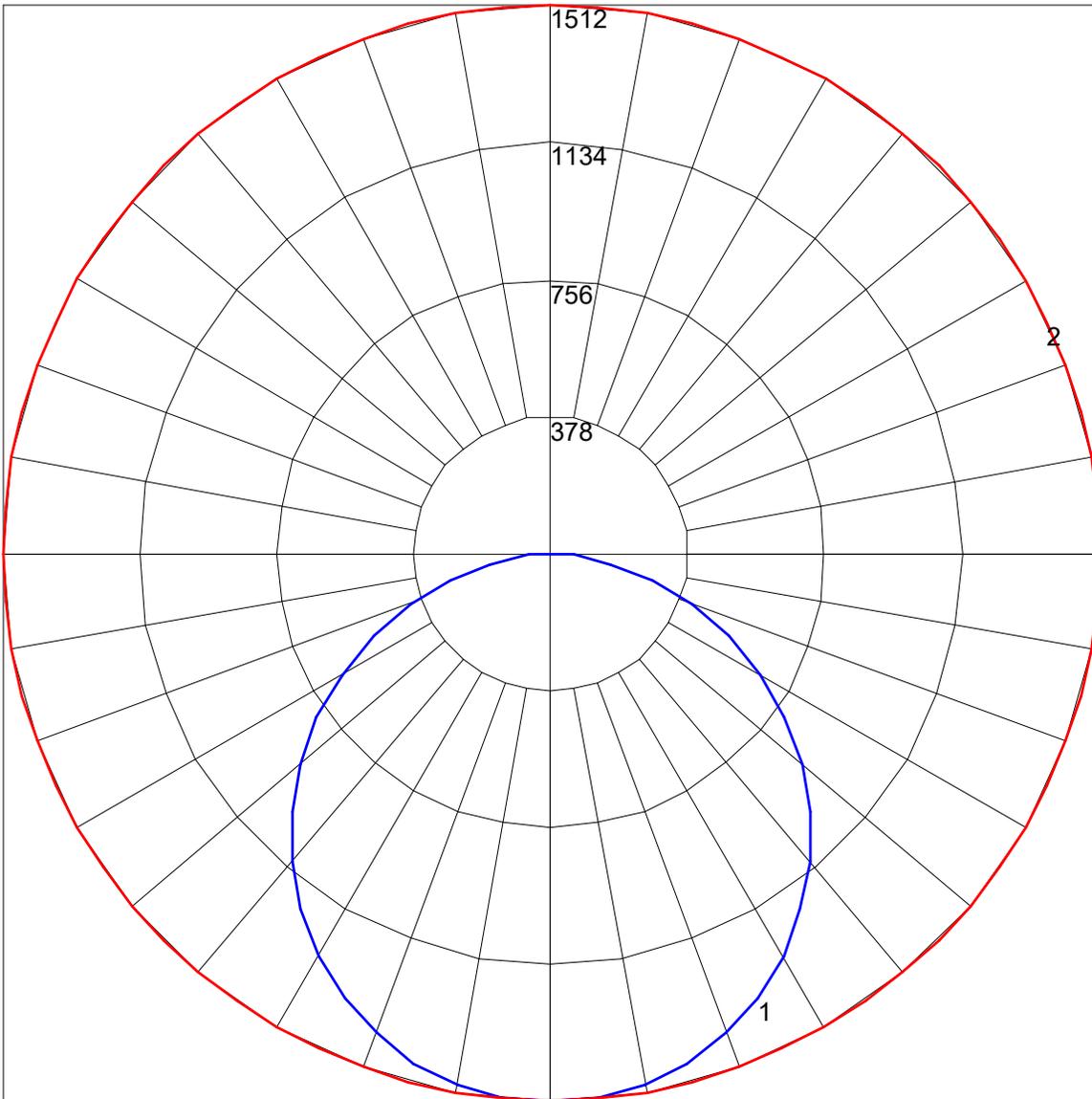
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	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 = 1511.906 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.)