

**IES Report**

**WingRail® | 107 | Clear with EdgeSoft™ | 80 CRI | SO**

107-WG-XX-4-48-XX-XX-XX-XX-X-X-Z-SO-35-C1-X-XX-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	112	116	118	121
Total Lumens, 4' rail length (1219mm)	2699	2784	2841	2898
Lumens per foot (305mm)	675	696	710	724
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	85	85	85	85

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\_C1.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] L071704217 (SOURCE REPORT FOR REFERENCE)  
[TESTLAB] REPORT BASED ON DATA PRODUCED BY NVLAP ACCREDITED LAB  
[ISSUEDATE] 11/1/2017  
[MANUFAC] Vode Lighting  
[LUMCAT] 107-WG-48-Z-SO-35-C1  
[LUMINAIRE] WingRail LED, 48", 3500K, 80 CRI, zipper board,  
[MORE] clear lens w/edge softening, standard output  
[TEST PROCEDURE] IESNA:LM-79-08

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2833
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	117
Total Luminaire Watts	24.13
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.66
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.30
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.13 ft
Luminous Width (90-270)	3.83 ft
Luminous Height	0.00 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	35070	31249	21049
55	35458	31415	18707
65	31540	28645	15679
75	25110	23731	12210
85	17253	18130	7603

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>	1102.12	1102.12	1102.12	1102.12	1102.12	1102.12	1102.12	1102.12	1102.12	1102.12
<b>5</b>	1151.68	1151.68	1150.50	1149.32	1148.14	1146.96	1144.60	1142.24	1139.88	1136.34
<b>10</b>	1196.52	1195.34	1194.16	1192.98	1189.44	1187.08	1182.36	1177.64	1171.74	1165.84
<b>15</b>	1226.02	1226.02	1223.66	1221.30	1217.76	1211.86	1205.96	1198.88	1190.62	1182.36
<b>20</b>	1243.72	1242.54	1240.18	1236.64	1231.92	1224.84	1217.76	1208.32	1197.70	1185.90
<b>25</b>	1250.80	1249.62	1246.08	1241.36	1235.46	1227.20	1216.58	1205.96	1191.80	1177.64
<b>30</b>	1246.08	1244.90	1242.54	1236.64	1228.38	1217.76	1207.14	1192.98	1176.46	1158.76
<b>35</b>	1230.74	1229.56	1226.02	1218.94	1209.50	1198.88	1184.72	1168.20	1149.32	1128.08
<b>40</b>	1200.06	1198.88	1195.34	1187.08	1177.64	1163.48	1148.14	1129.26	1108.02	1084.42
<b>45</b>	1148.14	1146.96	1142.24	1133.98	1123.36	1108.02	1091.50	1071.44	1047.84	1023.06
<b>50</b>	1064.36	1062.00	1058.46	1050.20	1039.58	1026.60	1010.08	990.02	966.42	940.46
<b>55</b>	941.64	940.46	936.92	932.20	922.76	910.96	897.98	879.10	857.86	834.26
<b>60</b>	788.24	788.24	784.70	781.16	774.08	765.82	755.20	742.22	724.52	704.46
<b>65</b>	617.14	617.14	615.96	613.60	610.06	604.16	597.08	587.64	575.84	560.50
<b>70</b>	450.76	449.58	449.58	448.40	447.22	443.68	440.14	434.24	427.16	416.54
<b>75</b>	300.90	300.90	300.90	300.90	300.90	299.72	297.36	295.00	290.28	284.38
<b>80</b>	171.10	171.10	171.10	172.28	172.28	173.46	172.28	172.28	169.92	166.38
<b>85</b>	69.62	69.62	69.62	70.80	71.98	71.98	73.16	73.16	73.16	73.16
<b>90</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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>	<u>95</u>
<b>0</b>	1102.12	1102.12	1102.12	1102.12	1102.12	1102.12	1102.12	1102.12	1102.12	1102.12
<b>5</b>	1132.80	1129.26	1125.72	1121.00	1117.46	1112.74	1108.02	1103.30	1098.58	1093.86
<b>10</b>	1158.76	1150.50	1142.24	1133.98	1124.54	1115.10	1104.48	1095.04	1084.42	1073.80
<b>15</b>	1171.74	1159.94	1146.96	1133.98	1121.00	1106.84	1091.50	1074.98	1059.64	1041.94
<b>20</b>	1171.74	1157.58	1141.06	1123.36	1105.66	1086.78	1066.72	1045.48	1023.06	999.46
<b>25</b>	1161.12	1143.42	1123.36	1102.12	1079.70	1056.10	1031.32	1004.18	977.04	946.36
<b>30</b>	1138.70	1117.46	1093.86	1069.08	1043.12	1014.80	985.30	953.44	919.22	882.64
<b>35</b>	1104.48	1079.70	1053.74	1024.24	994.74	962.88	927.48	892.08	851.96	809.48
<b>40</b>	1057.28	1030.14	999.46	968.78	934.56	899.16	860.22	820.10	775.26	726.88
<b>45</b>	994.74	964.06	931.02	896.80	859.04	821.28	779.98	736.32	689.12	637.20
<b>50</b>	910.96	879.10	844.88	808.30	770.54	731.60	687.94	644.28	595.90	542.80
<b>55</b>	805.94	776.44	742.22	705.64	667.88	628.94	587.64	543.98	496.78	446.04
<b>60</b>	679.68	652.54	623.04	591.18	554.60	519.20	480.26	441.32	398.84	354.00
<b>65</b>	542.80	519.20	494.42	467.28	437.78	404.74	375.24	342.20	306.80	271.40
<b>70</b>	403.56	388.22	369.34	348.10	324.50	299.72	274.94	248.98	220.66	194.70
<b>75</b>	276.12	264.32	251.34	236.00	220.66	201.78	184.08	165.20	146.32	127.44
<b>80</b>	161.66	155.76	148.68	138.06	127.44	116.82	105.02	93.22	81.42	70.80
<b>85</b>	69.62	67.26	64.90	60.18	53.10	48.38	42.48	36.58	30.68	27.14
<b>90</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Vert. Angles Horizontal Angles

	<u>100</u>	<u>105</u>	<u>110</u>	<u>115</u>	<u>120</u>	<u>125</u>	<u>130</u>	<u>135</u>	<u>140</u>	<u>145</u>
<b>0</b>	1102.12	1102.12	1102.12	1102.12	1102.12	1102.12	1102.12	1102.12	1102.12	1102.12
<b>5</b>	1089.14	1084.42	1079.70	1074.98	1071.44	1066.72	1063.18	1058.46	1054.92	1051.38
<b>10</b>	1063.18	1052.56	1041.94	1031.32	1020.70	1010.08	1000.64	991.20	982.94	974.68
<b>15</b>	1025.42	1007.72	990.02	973.50	955.80	938.10	921.58	903.88	888.54	873.20
<b>20</b>	977.04	953.44	927.48	901.52	875.56	849.60	823.64	795.32	770.54	745.76
<b>25</b>	916.86	885.00	850.78	815.38	779.98	742.22	705.64	666.70	632.48	601.80
<b>30</b>	846.06	807.12	763.46	717.44	671.42	624.22	578.20	534.54	497.96	467.28
<b>35</b>	765.82	718.62	666.70	611.24	558.14	506.22	459.02	420.08	389.40	364.62

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_107\_WG\_SO\_35\_C1.IES**

**CANDELA TABULATION - (Cont.)**

<b>40</b>	677.32	624.22	565.22	507.40	450.76	402.38	362.26	330.40	307.98	290.28
<b>45</b>	584.10	526.28	466.10	409.46	358.72	318.60	287.92	265.50	248.98	236.00
<b>50</b>	488.52	431.88	375.24	325.68	284.38	253.70	231.28	214.76	202.96	194.70
<b>55</b>	395.30	344.56	296.18	256.06	224.20	201.78	186.44	174.64	166.38	159.30
<b>60</b>	310.34	267.86	227.74	198.24	174.64	159.30	147.50	139.24	133.34	128.62
<b>65</b>	234.82	201.78	172.28	149.86	133.34	121.54	114.46	107.38	103.84	99.12
<b>70</b>	168.74	142.78	122.72	107.38	96.76	88.50	82.60	79.06	75.52	73.16
<b>75</b>	109.74	95.58	79.06	69.62	62.54	57.82	54.28	50.74	49.56	47.20
<b>80</b>	60.18	49.56	42.48	36.58	33.04	30.68	28.32	27.14	25.96	24.78
<b>85</b>	21.24	16.52	14.16	11.80	10.62	10.62	9.44	8.26	8.26	7.08
<b>90</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Vert. Angles**      **Horizontal Angles**

	<u>150</u>	<u>155</u>	<u>160</u>	<u>165</u>	<u>170</u>	<u>175</u>	<u>180</u>
<b>0</b>	1102.12	1102.12	1102.12	1102.12	1102.12	1102.12	1102.12
<b>5</b>	1049.02	1046.66	1044.30	1041.94	1040.76	1039.58	1039.58
<b>10</b>	966.42	960.52	954.62	949.90	947.54	945.18	945.18
<b>15</b>	859.04	847.24	836.62	828.36	822.46	818.92	817.74
<b>20</b>	723.34	705.64	689.12	676.14	666.70	660.80	659.62
<b>25</b>	574.66	552.24	533.36	519.20	509.76	503.86	502.68
<b>30</b>	442.50	422.44	407.10	396.48	389.40	384.68	383.50
<b>35</b>	344.56	330.40	319.78	312.70	307.98	304.44	303.26
<b>40</b>	277.30	266.68	259.60	254.88	250.16	248.98	247.80
<b>45</b>	226.56	220.66	214.76	210.04	207.68	206.50	205.32
<b>50</b>	187.62	182.90	178.18	174.64	172.28	171.10	171.10
<b>55</b>	154.58	149.86	146.32	143.96	142.78	140.42	140.42
<b>60</b>	123.90	121.54	118.00	115.64	114.46	113.28	113.28
<b>65</b>	96.76	94.40	92.04	90.86	89.68	88.50	88.50
<b>70</b>	70.80	68.44	67.26	66.08	64.90	64.90	64.90
<b>75</b>	46.02	44.84	43.66	42.48	42.48	42.48	42.48
<b>80</b>	23.60	23.60	22.42	22.42	22.42	22.42	22.42
<b>85</b>	7.08	7.08	5.90	5.90	5.90	5.90	5.90
<b>90</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_107\_WG\_SO\_35\_C1.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	397.18	N.A.	14.00
0-30	823.45	N.A.	29.10
0-40	1320.71	N.A.	46.60
0-60	2285.89	N.A.	80.70
0-80	2787.65	N.A.	98.40
0-90	2833.12	N.A.	100.00
10-90	2729.01	N.A.	96.30
20-40	923.52	N.A.	32.60
20-50	1434.54	N.A.	50.60
40-70	1292.81	N.A.	45.60
60-80	501.77	N.A.	17.70
70-80	174.13	N.A.	6.10
80-90	45.47	N.A.	1.60
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	2833.12	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	104.11
10-20	293.07
20-30	426.26
30-40	497.26
40-50	511.01
50-60	454.17
60-70	327.63
70-80	174.13
80-90	45.47
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

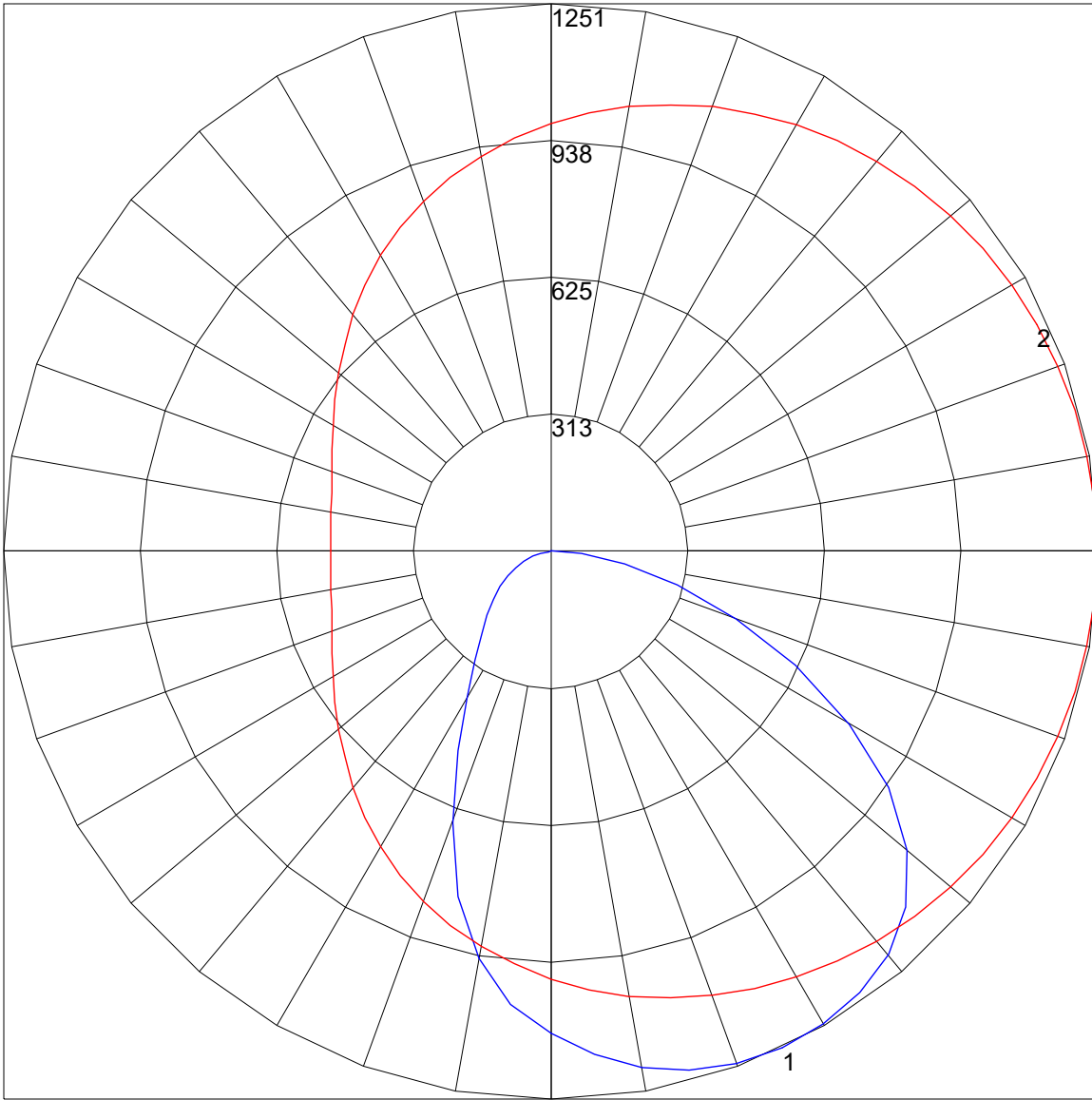
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_107\_WG\_SO\_35\_C1.IES**

**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	97	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	85	79	97	89	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53	51
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	45
6	71	58	49	42	69	57	48	42	55	47	42	53	47	41	52	46	41	39
7	66	52	44	38	64	52	43	37	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	52	40	33	27	39	32	27	38	32	27	37	31	27	25

POLAR GRAPH



Maximum Candela = 1250.8 Located At Horizontal Angle = 0, Vertical Angle = 25  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (25) (Through Max. Cd.)