

**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	126	130	133	133
Total Lumens, 4' rail length (1219mm)	3034	3130	3194	3194
Lumens per foot (305mm)	759	783	799	799
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\_C1.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] L121911518 (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-C1-AL  
[LUMINAIRE] WingRail LED, 48", 3500K, 80 CRI, zipper board, clear lens w/edge softening,  
[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	3194
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	134
Total Luminaire Watts	23.92
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.58
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.30
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.11 ft
Luminous Width (90-270)	3.84 ft
Luminous Height	0.00 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	43185	39217	28191
55	41190	37174	24714
65	35499	32773	20475
75	27157	26472	15632
85	11182	16603	8132

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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>	1284.12	1284.12	1284.12	1284.12	1284.12	1284.12	1284.12	1284.12	1284.12	1284.12
<b>5</b>	1334.00	1332.84	1332.84	1331.68	1330.52	1327.04	1327.04	1324.72	1321.24	1317.76
<b>10</b>	1378.08	1376.92	1375.76	1374.60	1371.12	1367.64	1363.00	1358.36	1352.56	1345.60
<b>15</b>	1407.08	1407.08	1404.76	1401.28	1396.64	1390.84	1386.20	1376.92	1368.80	1359.52
<b>20</b>	1419.84	1418.68	1416.36	1412.88	1407.08	1400.12	1392.00	1381.56	1369.96	1358.36
<b>25</b>	1417.52	1416.36	1414.04	1409.40	1402.44	1393.16	1383.88	1371.12	1357.20	1340.96
<b>30</b>	1396.64	1396.64	1393.16	1387.36	1380.40	1371.12	1358.36	1343.28	1327.04	1308.48
<b>35</b>	1358.36	1356.04	1352.56	1345.60	1337.48	1327.04	1313.12	1296.88	1277.16	1257.44
<b>40</b>	1292.24	1291.08	1286.44	1280.64	1271.36	1259.76	1244.68	1227.28	1206.40	1183.20
<b>45</b>	1199.44	1197.12	1194.80	1189.00	1179.72	1166.96	1151.88	1133.32	1112.44	1089.24
<b>50</b>	1076.48	1075.32	1071.84	1067.20	1059.08	1047.48	1033.56	1015.00	995.28	972.08
<b>55</b>	928.00	926.84	923.36	919.88	914.08	904.80	893.20	876.96	858.40	837.52
<b>60</b>	759.80	759.80	758.64	756.32	751.68	745.88	736.60	725.00	709.92	692.52
<b>65</b>	589.28	588.12	588.12	586.96	584.64	581.16	575.36	567.24	556.80	544.04
<b>70</b>	423.40	423.40	423.40	423.40	423.40	421.08	418.76	414.12	408.32	400.20
<b>75</b>	276.08	276.08	276.08	277.24	278.40	278.40	277.24	276.08	273.76	269.12
<b>80</b>	143.84	145.00	146.16	147.32	149.64	150.80	151.96	153.12	153.12	151.96
<b>85</b>	38.28	38.28	39.44	41.76	42.92	46.40	48.72	52.20	54.52	56.84
<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>	1284.12	1284.12	1284.12	1284.12	1284.12	1284.12	1284.12	1284.12	1284.12	1284.12
<b>5</b>	1314.28	1310.80	1307.32	1302.68	1298.04	1292.24	1288.76	1282.96	1278.32	1273.68
<b>10</b>	1338.64	1330.52	1322.40	1311.96	1302.68	1293.40	1282.96	1272.52	1262.08	1250.48
<b>15</b>	1347.92	1335.16	1323.56	1309.64	1295.72	1280.64	1264.40	1249.32	1233.08	1215.68
<b>20</b>	1343.28	1328.20	1310.80	1292.24	1273.68	1255.12	1234.24	1212.20	1191.32	1168.12
<b>25</b>	1324.72	1303.84	1284.12	1263.24	1238.88	1215.68	1189.00	1162.32	1134.48	1105.48
<b>30</b>	1287.60	1264.40	1241.20	1215.68	1187.84	1160.00	1128.68	1098.52	1064.88	1031.24
<b>35</b>	1233.08	1207.56	1180.88	1151.88	1121.72	1088.08	1054.44	1019.64	982.52	944.24
<b>40</b>	1157.68	1131.00	1100.84	1069.52	1037.04	1001.08	965.12	928.00	887.40	845.64
<b>45</b>	1062.56	1034.72	1003.40	972.08	936.12	900.16	863.04	824.76	783.00	740.08
<b>50</b>	947.72	918.72	888.56	856.08	822.44	786.48	749.36	711.08	670.48	628.72
<b>55</b>	814.32	786.48	759.80	729.64	697.16	663.52	629.88	593.92	556.80	517.36
<b>60</b>	671.64	647.28	622.92	596.24	567.24	538.24	508.08	476.76	444.28	410.64
<b>65</b>	527.80	508.08	487.20	464.00	439.64	415.28	390.92	365.40	339.88	313.20
<b>70</b>	390.92	377.00	359.60	341.04	321.32	302.76	283.04	264.48	244.76	225.04
<b>75</b>	263.32	254.04	243.60	229.68	214.60	199.52	185.60	171.68	158.92	146.16
<b>80</b>	149.64	145.00	139.20	132.24	122.96	112.52	102.08	92.80	85.84	78.88
<b>85</b>	58.00	56.84	55.68	53.36	49.88	45.24	39.44	32.48	27.84	26.68
<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>	1284.12	1284.12	1284.12	1284.12	1284.12	1284.12	1284.12	1284.12	1284.12	1284.12
<b>5</b>	1269.04	1265.56	1259.76	1255.12	1250.48	1245.84	1243.52	1238.88	1235.40	1231.92
<b>10</b>	1240.04	1228.44	1219.16	1208.72	1198.28	1189.00	1179.72	1171.60	1162.32	1155.36
<b>15</b>	1199.44	1182.04	1165.80	1149.56	1132.16	1115.92	1099.68	1084.60	1070.68	1057.92
<b>20</b>	1144.92	1121.72	1096.20	1073.00	1049.80	1026.60	1003.40	980.20	959.32	939.60
<b>25</b>	1077.64	1047.48	1016.16	986.00	953.52	921.04	889.72	859.56	830.56	803.88
<b>30</b>	995.28	960.48	923.36	883.92	843.32	803.88	764.44	727.32	692.52	661.20
<b>35</b>	904.80	861.88	817.80	773.72	726.16	680.92	638.00	596.24	561.44	527.80

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**CANDELA TABULATION - (Cont.)**

40	802.72	756.32	707.60	658.88	607.84	561.44	518.52	480.24	447.76	419.92
45	694.84	646.12	596.24	547.52	497.64	454.72	416.44	382.80	356.12	336.40
50	584.64	537.08	490.68	445.44	400.20	363.08	332.92	305.08	286.52	271.44
55	477.92	435.00	393.24	354.96	317.84	287.68	263.32	244.76	230.84	220.40
60	377.00	342.20	307.40	276.08	247.08	223.88	206.48	193.72	184.44	176.32
65	286.52	258.68	232.00	207.64	186.76	170.52	158.92	149.64	142.68	138.04
70	205.32	186.76	167.04	149.64	134.56	124.12	116.00	110.20	105.56	103.24
75	133.40	120.64	107.88	97.44	88.16	82.36	77.72	74.24	71.92	69.60
80	71.92	64.96	59.16	53.36	48.72	45.24	42.92	41.76	40.60	39.44
85	25.52	23.20	20.88	18.56	17.40	17.40	17.40	16.24	16.24	16.24
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Vert. Horizontal Angles**

	<u>150</u>	<u>155</u>	<u>160</u>	<u>165</u>	<u>170</u>	<u>175</u>	<u>180</u>
0	1284.12	1284.12	1284.12	1284.12	1284.12	1284.12	1284.12
5	1229.60	1227.28	1224.96	1223.80	1222.64	1221.48	1221.48
10	1148.40	1142.60	1136.80	1133.32	1129.84	1128.68	1128.68
15	1045.16	1035.88	1026.60	1019.64	1015.00	1011.52	1011.52
20	922.20	905.96	893.20	881.60	874.64	870.00	868.84
25	779.52	758.64	741.24	727.32	718.04	711.08	709.92
30	633.36	610.16	591.60	577.68	567.24	561.44	559.12
35	502.28	481.40	466.32	453.56	445.44	440.80	438.48
40	399.04	382.80	371.20	361.92	356.12	352.64	351.48
45	320.16	308.56	300.44	293.48	290.00	287.68	286.52
50	261.00	252.88	245.92	242.44	238.96	237.80	236.64
55	212.28	206.48	203.00	199.52	197.20	197.20	196.04
60	171.68	168.20	164.72	162.40	161.24	160.08	160.08
65	134.56	132.24	129.92	127.60	126.44	126.44	126.44
70	100.92	98.60	97.44	96.28	95.12	95.12	95.12
75	68.44	67.28	66.12	66.12	64.96	64.96	64.96
80	39.44	39.44	38.28	38.28	38.28	38.28	38.28
85	16.24	16.24	16.24	16.24	16.24	16.24	16.24
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	465.34	N.A.	14.60
0-30	971.48	N.A.	30.40
0-40	1555.86	N.A.	48.70
0-60	2626.29	N.A.	82.20
0-80	3151.06	N.A.	98.70
0-90	3194.17	N.A.	100.00
10-90	3072.82	N.A.	96.20
20-40	1090.53	N.A.	34.10
20-50	1669.00	N.A.	52.30
40-70	1415.45	N.A.	44.30
60-80	524.77	N.A.	16.40
70-80	179.75	N.A.	5.60
80-90	43.11	N.A.	1.30
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	3194.17	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	121.35
10-20	343.98
20-30	506.15
30-40	584.38
40-50	578.48
50-60	491.95
60-70	345.02
70-80	179.75
80-90	43.11
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

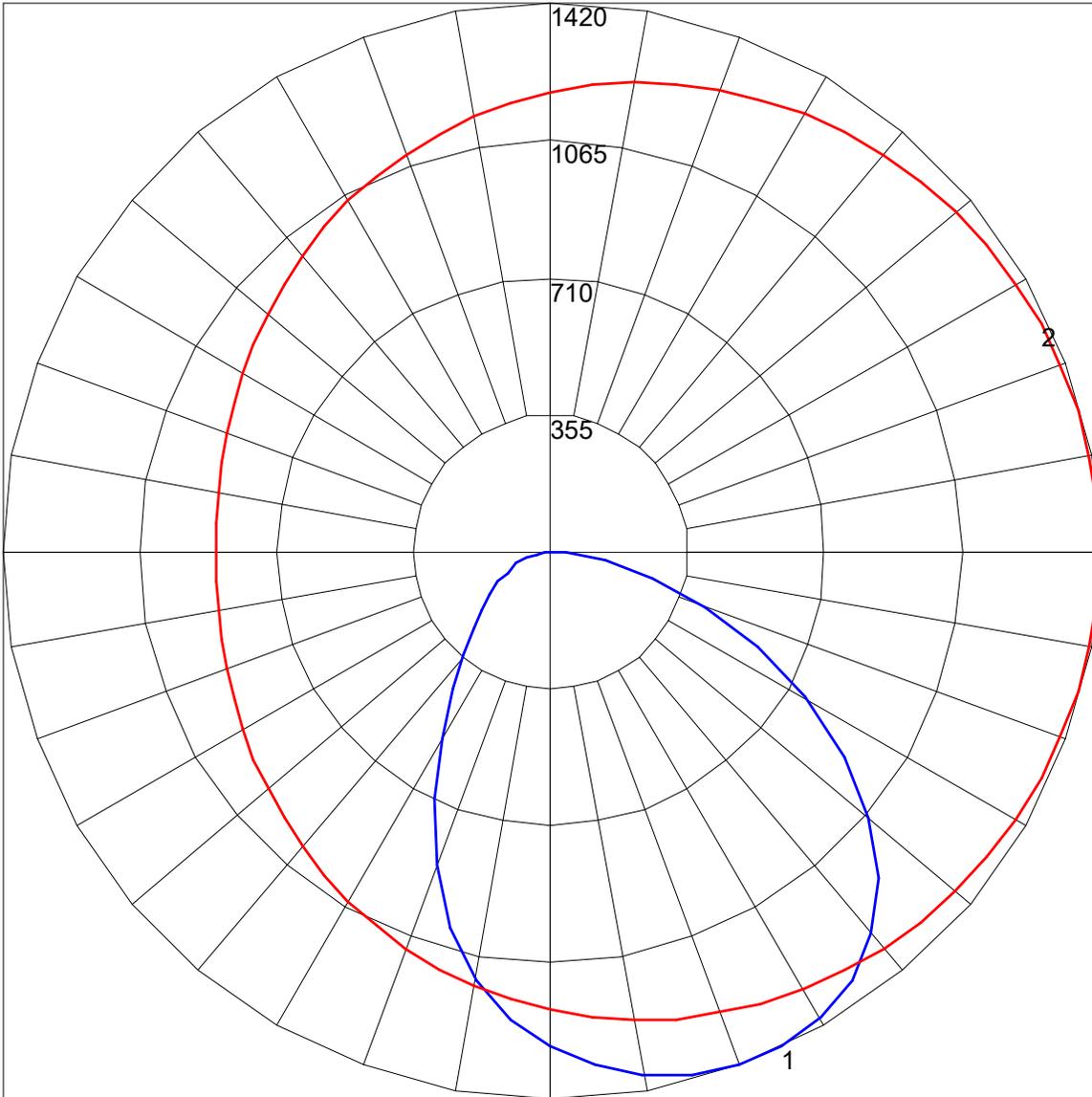
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	105	101	97	107	103	99	96	98	95	93	94	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72
3	91	81	73	67	89	80	72	67	77	71	65	74	69	64	71	67	63	61
4	84	72	64	57	82	71	63	57	69	62	56	66	60	55	64	59	55	53
5	77	65	56	50	75	64	56	49	62	54	49	60	53	48	58	52	48	46
6	72	59	50	44	70	58	49	43	56	49	43	54	48	43	53	47	42	40
7	66	53	45	39	65	52	44	39	51	44	38	49	43	38	48	42	38	36
8	62	49	40	35	60	48	40	35	47	39	34	45	39	34	44	38	34	32
9	58	45	37	31	57	44	36	31	43	36	31	42	36	31	41	35	31	29
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26

POLAR GRAPH



Maximum Candela = 1419.84 Located At Horizontal Angle = 0, Vertical Angle = 20  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)  
# 2 - Horizontal Cone Through Vertical Angle (20) (Through Max. Cd.)