

IES Report

WingRail® | 107 | White Baffle with EdgeSoft™ | 80 CRI | LO

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

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	92	94	96	96
Total Lumens, 4' rail length (1219mm)	1258	1298	1325	1325
Lumens per foot (305mm)	315	325	331	331
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_WB.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L121911519 (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-WB-AL

[LUMINAIRE] WingRail LED, 48", 3500K, 80 CRI, zipper board, white baffle,

[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	1325
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	96
Total Luminaire Watts	13.82
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.62
Spacing Criterion (90-270)	1.16
Spacing Criterion (Diagonal)	1.22
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	20548	15370	10713
55	19694	13232	8598
65	17295	10971	6673
75	14092	8957	4964
85	10843	7624	2541

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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>
0	590.44	590.44	590.44	590.44	590.44	590.44	590.44	590.44	590.44	590.44
5	620.02	619.44	619.44	618.86	617.70	616.54	615.38	613.64	612.48	610.16
10	646.70	646.12	644.96	643.80	642.06	639.16	636.84	633.36	629.30	625.24
15	664.68	664.10	662.36	660.04	657.14	653.08	648.44	643.22	637.42	631.04
20	673.96	673.38	671.06	667.58	662.94	657.14	650.76	643.22	634.52	625.82
25	673.96	672.80	669.90	665.26	658.88	651.34	642.06	631.62	620.60	609.00
30	665.26	663.52	659.46	653.08	644.38	633.94	622.34	608.42	593.92	579.42
35	646.12	643.80	638.58	630.46	618.86	605.52	590.44	573.62	556.22	537.66
40	614.80	612.48	605.52	595.08	581.16	564.92	545.78	526.06	506.34	486.62
45	570.72	567.82	559.70	547.52	531.86	511.56	490.68	468.64	447.18	426.88
50	513.30	509.82	501.12	487.78	470.38	448.92	426.88	404.26	383.38	363.08
55	443.70	440.80	431.52	417.60	400.20	379.32	358.44	336.98	317.26	298.12
60	366.56	363.66	355.54	342.78	325.96	308.56	289.42	270.86	252.88	236.64
65	287.10	284.20	277.82	267.38	254.04	238.96	223.30	208.22	192.56	182.12
70	210.54	208.80	203.58	196.04	187.34	176.32	164.72	153.12	142.10	132.82
75	143.26	142.10	138.62	133.98	127.60	120.06	112.52	104.98	97.44	91.06
80	84.68	84.10	82.36	79.46	76.56	72.50	67.86	63.80	59.16	55.10
85	37.12	36.54	36.54	35.38	34.80	33.64	31.90	30.16	27.84	26.10
90	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>
0	590.44	590.44	590.44	590.44	590.44	590.44	590.44	590.44	590.44	590.44
5	608.42	606.10	603.78	601.46	599.14	596.24	593.34	591.02	588.12	585.22
10	621.18	616.54	611.32	606.10	600.88	595.08	589.28	583.48	577.68	571.88
15	624.08	617.12	609.00	601.46	593.34	585.22	577.10	568.40	559.70	551.58
20	616.54	606.68	596.24	585.80	575.36	564.34	553.90	543.46	532.44	522.00
25	596.82	583.48	570.72	557.96	545.20	532.44	520.26	508.08	495.90	483.72
30	564.34	548.68	533.60	518.52	504.60	490.68	477.34	464.58	451.82	438.48
35	520.84	502.86	486.62	470.96	456.46	442.54	429.20	416.44	403.10	389.76
40	467.48	448.92	432.10	416.44	402.52	389.18	375.84	363.66	350.90	338.14
45	407.16	389.76	372.94	357.86	344.52	331.76	319.58	308.56	297.54	285.36
50	343.36	326.54	310.88	296.96	284.78	273.76	263.32	253.46	243.60	232.58
55	280.72	265.06	251.14	238.96	228.52	218.66	209.38	201.26	193.72	185.02
60	221.56	208.22	196.04	186.18	177.48	169.36	161.82	155.44	148.48	142.10
65	169.36	158.92	149.64	140.94	133.40	127.02	121.22	116.00	110.78	104.98
70	124.12	116.00	108.46	102.08	96.28	91.06	86.42	81.78	77.72	73.66
75	84.68	79.46	74.24	69.60	64.96	60.32	56.84	53.36	50.46	46.98
80	51.04	47.56	44.66	41.18	38.28	35.38	31.90	29.00	26.68	24.36
85	23.78	22.04	20.30	18.56	16.82	15.08	12.76	10.44	8.70	8.12
90	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>
0	590.44	590.44	590.44	590.44	590.44	590.44	590.44	590.44	590.44	590.44
5	582.32	579.42	577.10	574.20	571.88	569.56	567.24	564.92	563.18	561.44
10	566.08	560.28	554.48	548.68	542.30	537.08	531.86	526.64	522.00	517.94
15	542.88	533.60	524.32	515.62	506.34	497.64	488.94	480.24	472.12	464.58
20	510.98	499.38	487.78	475.60	462.84	450.08	437.90	424.56	412.38	400.78
25	470.96	457.62	443.12	428.04	411.80	396.14	379.90	363.08	346.84	332.34
30	424.56	409.48	392.66	375.84	356.70	337.56	319.00	300.44	283.04	267.96
35	375.26	359.02	341.04	321.90	301.02	281.30	262.16	244.18	227.94	214.02

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CANDELA TABULATION - (Cont.)

40	323.64	306.82	289.42	269.70	249.40	230.26	213.44	197.78	184.44	172.84
45	271.44	255.78	239.54	221.56	203.58	187.34	172.84	159.50	149.06	139.78
50	220.98	207.64	193.14	178.64	163.56	150.22	138.62	128.18	120.06	113.10
55	175.16	163.56	152.54	140.36	128.76	118.32	109.04	101.50	95.70	89.90
60	133.98	125.28	116.58	107.30	98.60	91.06	84.10	78.30	73.66	69.60
65	99.18	92.80	86.42	79.46	73.08	67.28	62.06	58.00	54.52	51.62
70	69.60	64.38	59.74	55.10	50.46	46.98	42.92	40.02	37.70	35.38
75	44.08	41.18	37.70	34.80	31.32	29.00	26.10	24.36	22.62	21.46
80	23.20	21.46	19.72	17.40	15.66	13.92	12.76	11.60	11.02	9.86
85	7.54	6.96	5.80	5.22	4.06	3.48	2.90	2.90	2.32	2.32
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	590.44	590.44	590.44	590.44	590.44	590.44	590.44
5	559.70	558.54	556.80	556.22	555.64	555.06	555.06
10	513.88	510.40	507.50	505.18	503.44	502.28	502.28
15	457.62	451.24	446.02	441.38	438.48	436.74	436.16
20	390.34	381.06	372.94	366.56	361.92	359.02	357.86
25	319.00	307.40	297.54	290.58	284.78	281.30	280.14
30	254.62	243.02	233.74	226.78	221.56	218.66	217.50
35	202.42	193.14	185.02	179.80	175.74	172.84	172.26
40	163.56	156.02	150.22	145.58	142.68	140.36	139.78
45	132.82	127.02	122.38	118.90	116.58	115.42	114.84
50	107.30	103.24	99.76	97.44	95.70	94.54	93.96
55	85.84	82.36	80.04	78.30	76.56	75.98	75.40
60	66.70	63.80	62.06	60.32	59.74	59.16	58.58
65	49.30	47.56	46.40	45.24	44.66	44.08	44.08
70	34.22	32.48	31.90	30.74	30.74	30.16	30.16
75	20.30	19.72	19.14	18.56	18.56	17.98	17.98
80	9.86	9.28	8.70	8.70	8.70	8.12	8.12
85	1.74	1.74	1.74	1.74	1.74	1.16	1.16
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	211.85	N.A.	16.00
0-30	435.52	N.A.	32.90
0-40	685.04	N.A.	51.70
0-60	1112.64	N.A.	84.00
0-80	1307.14	N.A.	98.70
0-90	1324.62	N.A.	100.00
10-90	1268.9	N.A.	95.80
20-40	473.19	N.A.	35.70
20-50	709.84	N.A.	53.60
40-70	555.89	N.A.	42.00
60-80	194.50	N.A.	14.70
70-80	66.21	N.A.	5.00
80-90	17.48	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	1324.62	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	55.72
10-20	156.13
20-30	223.67
30-40	249.53
40-50	236.65
50-60	190.95
60-70	128.29
70-80	66.21
80-90	17.48
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

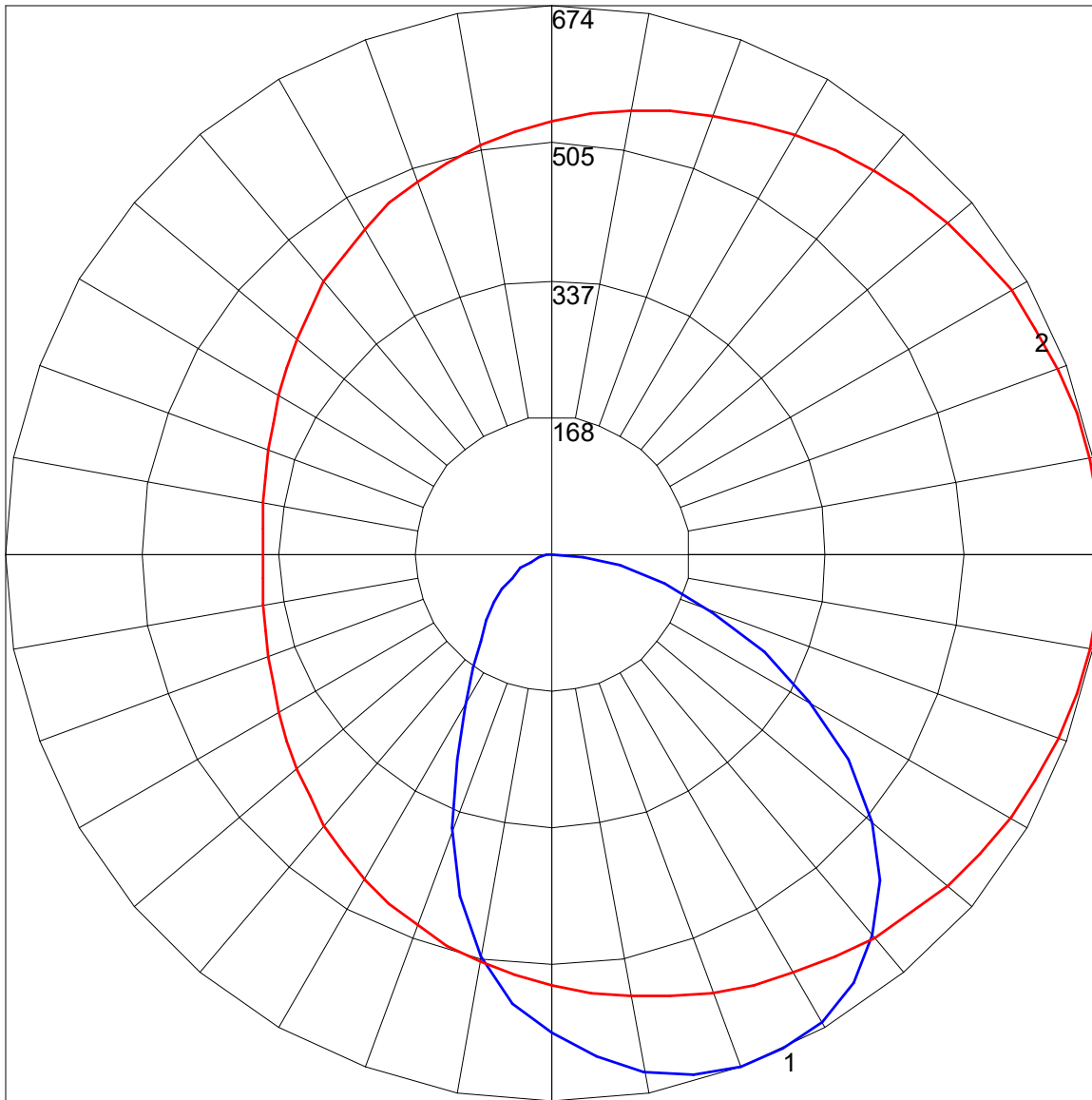
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	110	105	101	98	107	103	99	96	99	96	93	95	93	90	91	89	88	86
2	101	93	87	81	98	91	85	80	88	83	78	84	80	77	81	78	75	73
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	63
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56	54
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50	48
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42
7	68	55	46	40	66	54	46	40	52	45	40	51	45	40	50	44	39	38
8	63	50	42	36	62	49	42	36	48	41	36	47	41	36	46	40	36	34
9	59	46	38	33	58	46	38	33	44	38	33	43	37	33	42	37	32	31
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28

POLAR GRAPH



Maximum Candela = 673.96 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.)