

IES Report

WingRail® | 107 | Clear with EdgeSoft™ | 80 CRI | LO

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

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	110	114	116	116
Total Lumens, 4' rail length (1219mm)	1517	1565	1597	1597
Lumens per foot (305mm)	379	391	399	399
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_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-LO-35-C1-AL

[LUMINAIRE] WingRail LED, 48", 3500K, 80 CRI, zipper board, clear lens w/edge softening,

[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	1597
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	116
Total Luminaire Watts	13.82
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	21593	19609	14096
55	20595	18587	12357
65	17749	16387	10237
75	13578	13236	7816
85	5591	8302	4066

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PHOTOMETRIC FILENAME : VODE_107_WG_LO_35_C1.IES

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	642.06	642.06	642.06	642.06	642.06	642.06	642.06	642.06	642.06	642.06
5	667.00	666.42	666.42	665.84	665.26	663.52	663.52	662.36	660.62	658.88
10	689.04	688.46	687.88	687.30	685.56	683.82	681.50	679.18	676.28	672.80
15	703.54	703.54	702.38	700.64	698.32	695.42	693.10	688.46	684.40	679.76
20	709.92	709.34	708.18	706.44	703.54	700.06	696.00	690.78	684.98	679.18
25	708.76	708.18	707.02	704.70	701.22	696.58	691.94	685.56	678.60	670.48
30	698.32	698.32	696.58	693.68	690.20	685.56	679.18	671.64	663.52	654.24
35	679.18	678.02	676.28	672.80	668.74	663.52	656.56	648.44	638.58	628.72
40	646.12	645.54	643.22	640.32	635.68	629.88	622.34	613.64	603.20	591.60
45	599.72	598.56	597.40	594.50	589.86	583.48	575.94	566.66	556.22	544.62
50	538.24	537.66	535.92	533.60	529.54	523.74	516.78	507.50	497.64	486.04
55	464.00	463.42	461.68	459.94	457.04	452.40	446.60	438.48	429.20	418.76
60	379.90	379.90	379.32	378.16	375.84	372.94	368.30	362.50	354.96	346.26
65	294.64	294.06	294.06	293.48	292.32	290.58	287.68	283.62	278.40	272.02
70	211.70	211.70	211.70	211.70	211.70	210.54	209.38	207.06	204.16	200.10
75	138.04	138.04	138.04	138.62	139.20	139.20	138.62	138.04	136.88	134.56
80	71.92	72.50	73.08	73.66	74.82	75.40	75.98	76.56	76.56	75.98
85	19.14	19.14	19.72	20.88	21.46	23.20	24.36	26.10	27.26	28.42
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	642.06	642.06	642.06	642.06	642.06	642.06	642.06	642.06	642.06	642.06
5	657.14	655.40	653.66	651.34	649.02	646.12	644.38	641.48	639.16	636.84
10	669.32	665.26	661.20	655.98	651.34	646.70	641.48	636.26	631.04	625.24
15	673.96	667.58	661.78	654.82	647.86	640.32	632.20	624.66	616.54	607.84
20	671.64	664.10	655.40	646.12	636.84	627.56	617.12	606.10	595.66	584.06
25	662.36	651.92	642.06	631.62	619.44	607.84	594.50	581.16	567.24	552.74
30	643.80	632.20	620.60	607.84	593.92	580.00	564.34	549.26	532.44	515.62
35	616.54	603.78	590.44	575.94	560.86	544.04	527.22	509.82	491.26	472.12
40	578.84	565.50	550.42	534.76	518.52	500.54	482.56	464.00	443.70	422.82
45	531.28	517.36	501.70	486.04	468.06	450.08	431.52	412.38	391.50	370.04
50	473.86	459.36	444.28	428.04	411.22	393.24	374.68	355.54	335.24	314.36
55	407.16	393.24	379.90	364.82	348.58	331.76	314.94	296.96	278.40	258.68
60	335.82	323.64	311.46	298.12	283.62	269.12	254.04	238.38	222.14	205.32
65	263.90	254.04	243.60	232.00	219.82	207.64	195.46	182.70	169.94	156.60
70	195.46	188.50	179.80	170.52	160.66	151.38	141.52	132.24	122.38	112.52
75	131.66	127.02	121.80	114.84	107.30	99.76	92.80	85.84	79.46	73.08
80	74.82	72.50	69.60	66.12	61.48	56.26	51.04	46.40	42.92	39.44
85	29.00	28.42	27.84	26.68	24.94	22.62	19.72	16.24	13.92	13.34
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	642.06	642.06	642.06	642.06	642.06	642.06	642.06	642.06	642.06	642.06
5	634.52	632.78	629.88	627.56	625.24	622.92	621.76	619.44	617.70	615.96
10	620.02	614.22	609.58	604.36	599.14	594.50	589.86	585.80	581.16	577.68
15	599.72	591.02	582.90	574.78	566.08	557.96	549.84	542.30	535.34	528.96
20	572.46	560.86	548.10	536.50	524.90	513.30	501.70	490.10	479.66	469.80
25	538.82	523.74	508.08	493.00	476.76	460.52	444.86	429.78	415.28	401.94
30	497.64	480.24	461.68	441.96	421.66	401.94	382.22	363.66	346.26	330.60
35	452.40	430.94	408.90	386.86	363.08	340.46	319.00	298.12	280.72	263.90

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_107_WG_LO_35_C1.IES

CANDELA TABULATION - (Cont.)

40	401.36	378.16	353.80	329.44	303.92	280.72	259.26	240.12	223.88	209.96
45	347.42	323.06	298.12	273.76	248.82	227.36	208.22	191.40	178.06	168.20
50	292.32	268.54	245.34	222.72	200.10	181.54	166.46	152.54	143.26	135.72
55	238.96	217.50	196.62	177.48	158.92	143.84	131.66	122.38	115.42	110.20
60	188.50	171.10	153.70	138.04	123.54	111.94	103.24	96.86	92.22	88.16
65	143.26	129.34	116.00	103.82	93.38	85.26	79.46	74.82	71.34	69.02
70	102.66	93.38	83.52	74.82	67.28	62.06	58.00	55.10	52.78	51.62
75	66.70	60.32	53.94	48.72	44.08	41.18	38.86	37.12	35.96	34.80
80	35.96	32.48	29.58	26.68	24.36	22.62	21.46	20.88	20.30	19.72
85	12.76	11.60	10.44	9.28	8.70	8.70	8.70	8.12	8.12	8.12
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	642.06	642.06	642.06	642.06	642.06	642.06	642.06
5	614.80	613.64	612.48	611.90	611.32	610.74	610.74
10	574.20	571.30	568.40	566.66	564.92	564.34	564.34
15	522.58	517.94	513.30	509.82	507.50	505.76	505.76
20	461.10	452.98	446.60	440.80	437.32	435.00	434.42
25	389.76	379.32	370.62	363.66	359.02	355.54	354.96
30	316.68	305.08	295.80	288.84	283.62	280.72	279.56
35	251.14	240.70	233.16	226.78	222.72	220.40	219.24
40	199.52	191.40	185.60	180.96	178.06	176.32	175.74
45	160.08	154.28	150.22	146.74	145.00	143.84	143.26
50	130.50	126.44	122.96	121.22	119.48	118.90	118.32
55	106.14	103.24	101.50	99.76	98.60	98.60	98.02
60	85.84	84.10	82.36	81.20	80.62	80.04	80.04
65	67.28	66.12	64.96	63.80	63.22	63.22	63.22
70	50.46	49.30	48.72	48.14	47.56	47.56	47.56
75	34.22	33.64	33.06	33.06	32.48	32.48	32.48
80	19.72	19.72	19.14	19.14	19.14	19.14	19.14
85	8.12	8.12	8.12	8.12	8.12	8.12	8.12
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	232.67	N.A.	14.60
0-30	485.74	N.A.	30.40
0-40	777.93	N.A.	48.70
0-60	1313.15	N.A.	82.20
0-80	1575.53	N.A.	98.70
0-90	1597.08	N.A.	100.00
10-90	1536.41	N.A.	96.20
20-40	545.26	N.A.	34.10
20-50	834.50	N.A.	52.30
40-70	707.72	N.A.	44.30
60-80	262.39	N.A.	16.40
70-80	89.88	N.A.	5.60
80-90	21.55	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	1597.08	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	60.68
10-20	171.99
20-30	253.07
30-40	292.19
40-50	289.24
50-60	245.98
60-70	172.51
70-80	89.88
80-90	21.55
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

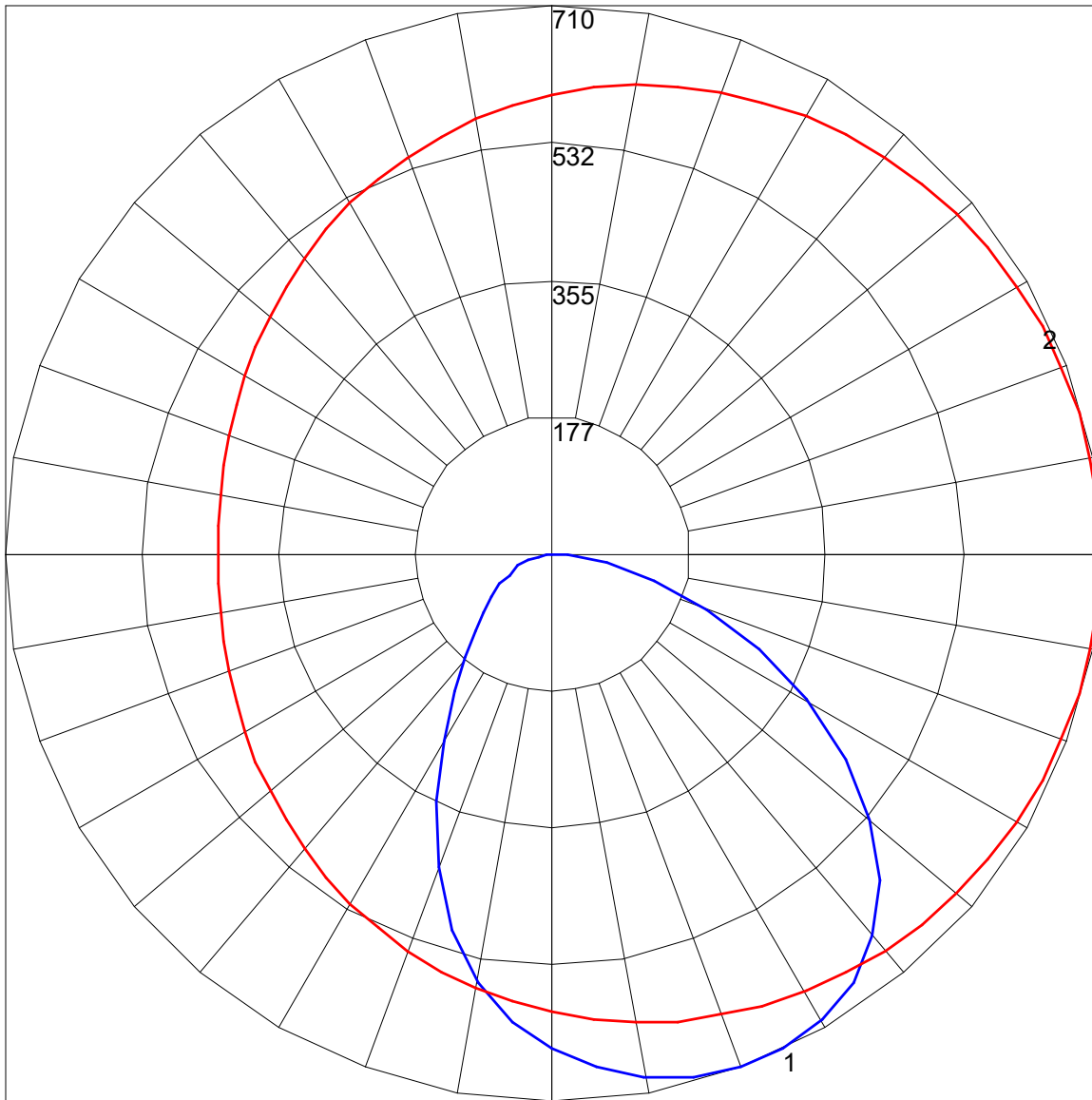
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 PHOTOMETRIC FILENAME : VODE_107_WG_LO_35_C1.IES

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	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 = 709.92 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.)