

IES Report

WingRail® | 107 | Clear with EdgeSoft™ | 90 CRI | SO

107-WG-XX-4-48-XX-XX-XX-XX-X-X-Z-SO-359-C1-X-XX-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	97	100	102	104
Total Lumens, 4' rail length (1219mm)	2327	2400	2449	2498
Lumens per foot (305mm)	582	600	612	624
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	96	96	96	96

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_359_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-359-C1
[LUMINAIRE] WingRail LED, 48", 3500K, 90 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	2449
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	101
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	30314	27012	18195
55	30650	27155	16170
65	27263	24761	13553
75	21705	20514	10555
85	14913	15672	6572

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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	952.68	952.68	952.68	952.68	952.68	952.68	952.68	952.68	952.68	952.68
5	995.52	995.52	994.50	993.48	992.46	991.44	989.40	987.36	985.32	982.26
10	1034.28	1033.26	1032.24	1031.22	1028.16	1026.12	1022.04	1017.96	1012.86	1007.76
15	1059.78	1059.78	1057.74	1055.70	1052.64	1047.54	1042.44	1036.32	1029.18	1022.04
20	1075.08	1074.06	1072.02	1068.96	1064.88	1058.76	1052.64	1044.48	1035.30	1025.10
25	1081.20	1080.18	1077.12	1073.04	1067.94	1060.80	1051.62	1042.44	1030.20	1017.96
30	1077.12	1076.10	1074.06	1068.96	1061.82	1052.64	1043.46	1031.22	1016.94	1001.64
35	1063.86	1062.84	1059.78	1053.66	1045.50	1036.32	1024.08	1009.80	993.48	975.12
40	1037.34	1036.32	1033.26	1026.12	1017.96	1005.72	992.46	976.14	957.78	937.38
45	992.46	991.44	987.36	980.22	971.04	957.78	943.50	926.16	905.76	884.34
50	920.04	918.00	914.94	907.80	898.62	887.40	873.12	855.78	835.38	812.94
55	813.96	812.94	809.88	805.80	797.64	787.44	776.22	759.90	741.54	721.14
60	681.36	681.36	678.30	675.24	669.12	661.98	652.80	641.58	626.28	608.94
65	533.46	533.46	532.44	530.40	527.34	522.24	516.12	507.96	497.76	484.50
70	389.64	388.62	388.62	387.60	386.58	383.52	380.46	375.36	369.24	360.06
75	260.10	260.10	260.10	260.10	260.10	259.08	257.04	255.00	250.92	245.82
80	147.90	147.90	147.90	148.92	148.92	149.94	148.92	148.92	146.88	143.82
85	60.18	60.18	60.18	61.20	62.22	62.22	63.24	63.24	63.24	63.24
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	952.68	952.68	952.68	952.68	952.68	952.68	952.68	952.68	952.68	952.68
5	979.20	976.14	973.08	969.00	965.94	961.86	957.78	953.70	949.62	945.54
10	1001.64	994.50	987.36	980.22	972.06	963.90	954.72	946.56	937.38	928.20
15	1012.86	1002.66	991.44	980.22	969.00	956.76	943.50	929.22	915.96	900.66
20	1012.86	1000.62	986.34	971.04	955.74	939.42	922.08	903.72	884.34	863.94
25	1003.68	988.38	971.04	952.68	933.30	912.90	891.48	868.02	844.56	818.04
30	984.30	965.94	945.54	924.12	901.68	877.20	851.70	824.16	794.58	762.96
35	954.72	933.30	910.86	885.36	859.86	832.32	801.72	771.12	736.44	699.72
40	913.92	890.46	863.94	837.42	807.84	777.24	743.58	708.90	670.14	628.32
45	859.86	833.34	804.78	775.20	742.56	709.92	674.22	636.48	595.68	550.80
50	787.44	759.90	730.32	698.70	666.06	632.40	594.66	556.92	515.10	469.20
55	696.66	671.16	641.58	609.96	577.32	543.66	507.96	470.22	429.42	385.56
60	587.52	564.06	538.56	511.02	479.40	448.80	415.14	381.48	344.76	306.00
65	469.20	448.80	427.38	403.92	378.42	349.86	324.36	295.80	265.20	234.60
70	348.84	335.58	319.26	300.90	280.50	259.08	237.66	215.22	190.74	168.30
75	238.68	228.48	217.26	204.00	190.74	174.42	159.12	142.80	126.48	110.16
80	139.74	134.64	128.52	119.34	110.16	100.98	90.78	80.58	70.38	61.20
85	60.18	58.14	56.10	52.02	45.90	41.82	36.72	31.62	26.52	23.46
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	952.68	952.68	952.68	952.68	952.68	952.68	952.68	952.68	952.68	952.68
5	941.46	937.38	933.30	929.22	926.16	922.08	919.02	914.94	911.88	908.82
10	919.02	909.84	900.66	891.48	882.30	873.12	864.96	856.80	849.66	842.52
15	886.38	871.08	855.78	841.50	826.20	810.90	796.62	781.32	768.06	754.80
20	844.56	824.16	801.72	779.28	756.84	734.40	711.96	687.48	666.06	644.64
25	792.54	765.00	735.42	704.82	674.22	641.58	609.96	576.30	546.72	520.20
30	731.34	697.68	659.94	620.16	580.38	539.58	499.80	462.06	430.44	403.92
35	661.98	621.18	576.30	528.36	482.46	437.58	396.78	363.12	336.60	315.18

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CANDELA TABULATION - (Cont.)

40	585.48	539.58	488.58	438.60	389.64	347.82	313.14	285.60	266.22	250.92
45	504.90	454.92	402.90	353.94	310.08	275.40	248.88	229.50	215.22	204.00
50	422.28	373.32	324.36	281.52	245.82	219.30	199.92	185.64	175.44	168.30
55	341.70	297.84	256.02	221.34	193.80	174.42	161.16	150.96	143.82	137.70
60	268.26	231.54	196.86	171.36	150.96	137.70	127.50	120.36	115.26	111.18
65	202.98	174.42	148.92	129.54	115.26	105.06	98.94	92.82	89.76	85.68
70	145.86	123.42	106.08	92.82	83.64	76.50	71.40	68.34	65.28	63.24
75	94.86	82.62	68.34	60.18	54.06	49.98	46.92	43.86	42.84	40.80
80	52.02	42.84	36.72	31.62	28.56	26.52	24.48	23.46	22.44	21.42
85	18.36	14.28	12.24	10.20	9.18	9.18	8.16	7.14	7.14	6.12
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>150</u>	<u>155</u>	<u>160</u>	<u>165</u>	<u>170</u>	<u>175</u>	<u>180</u>
0	952.68	952.68	952.68	952.68	952.68	952.68	952.68
5	906.78	904.74	902.70	900.66	899.64	898.62	898.62
10	835.38	830.28	825.18	821.10	819.06	817.02	817.02
15	742.56	732.36	723.18	716.04	710.94	707.88	706.86
20	625.26	609.96	595.68	584.46	576.30	571.20	570.18
25	496.74	477.36	461.04	448.80	440.64	435.54	434.52
30	382.50	365.16	351.90	342.72	336.60	332.52	331.50
35	297.84	285.60	276.42	270.30	266.22	263.16	262.14
40	239.70	230.52	224.40	220.32	216.24	215.22	214.20
45	195.84	190.74	185.64	181.56	179.52	178.50	177.48
50	162.18	158.10	154.02	150.96	148.92	147.90	147.90
55	133.62	129.54	126.48	124.44	123.42	121.38	121.38
60	107.10	105.06	102.00	99.96	98.94	97.92	97.92
65	83.64	81.60	79.56	78.54	77.52	76.50	76.50
70	61.20	59.16	58.14	57.12	56.10	56.10	56.10
75	39.78	38.76	37.74	36.72	36.72	36.72	36.72
80	20.40	20.40	19.38	19.38	19.38	19.38	19.38
85	6.12	6.12	5.10	5.10	5.10	5.10	5.10
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	343.33	N.A.	14.00
0-30	711.79	N.A.	29.10
0-40	1141.63	N.A.	46.60
0-60	1975.94	N.A.	80.70
0-80	2409.67	N.A.	98.40
0-90	2448.97	N.A.	100.00
10-90	2358.97	N.A.	96.30
20-40	798.30	N.A.	32.60
20-50	1240.02	N.A.	50.60
40-70	1117.51	N.A.	45.60
60-80	433.73	N.A.	17.70
70-80	150.52	N.A.	6.10
80-90	39.30	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	2448.97	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	89.99
10-20	253.33
20-30	368.47
30-40	429.83
40-50	441.72
50-60	392.58
60-70	283.21
70-80	150.52
80-90	39.30
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

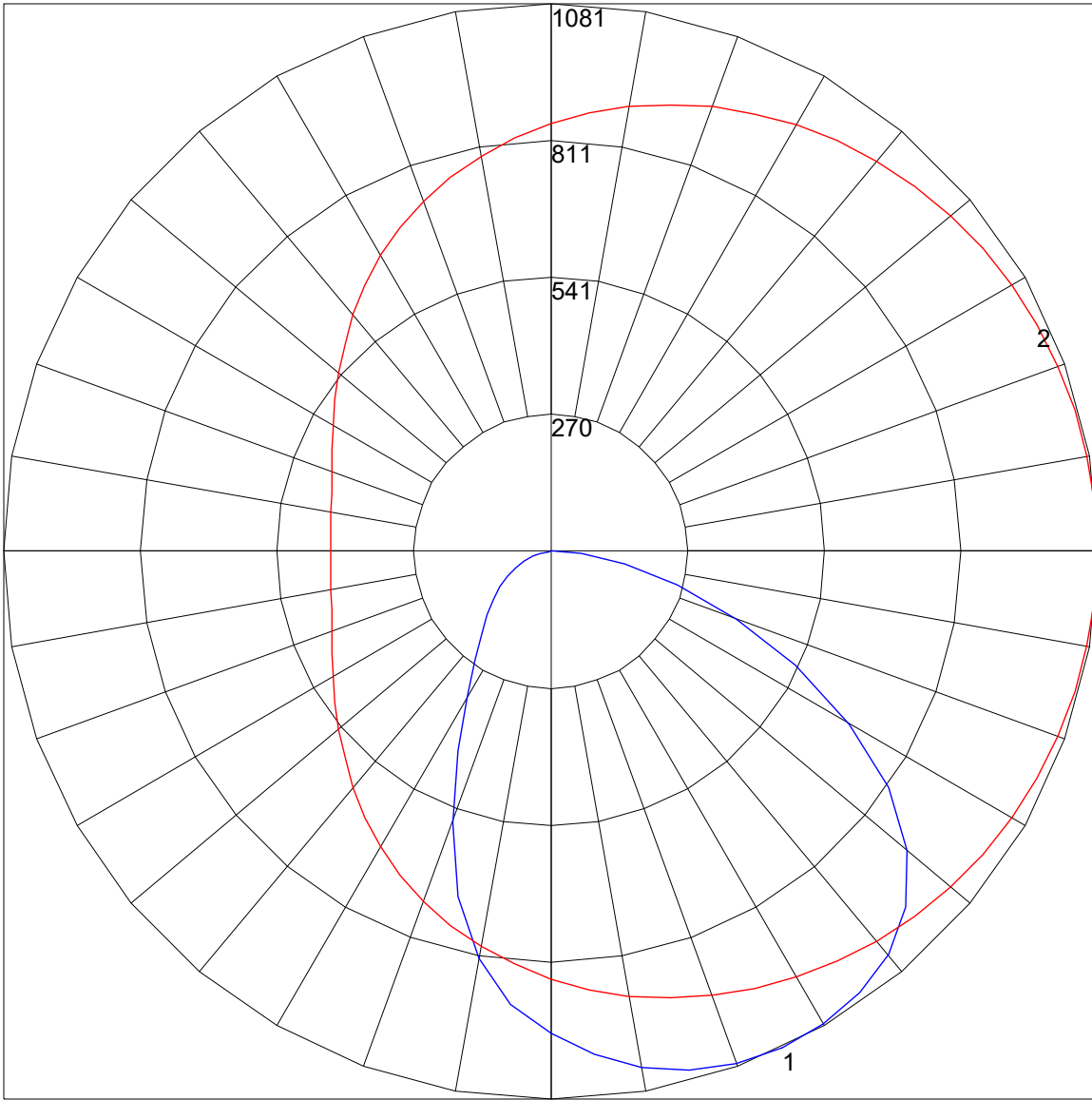
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	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 = 1081.2 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.)