

**IES Report**

**WingRail® | 107 | White Baffle with EdgeSoft™ | 80 CRI | HO**

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

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	98	101	103	103
Total Lumens, 4' rail length (1219mm)	4782	4933	5034	5034
Lumens per foot (305mm)	1195	1233	1258	1258
Input Power (W), 4' rail length (1219mm)	49.1	49.1	49.1	49.1
Watts per foot (305mm)	12.3	12.3	12.3	12.3
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\_HO\_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-HO-35-WB-AL  
[LUMINAIRE] WingRail LED, 48", 3500K, 80 CRI, zipper board, white baffle,  
[MORE] high 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	5024
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	102
Total Luminaire Watts	49.06
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	77942	58298	40634
55	74702	50192	32615
65	65602	41614	25313
75	53452	33975	18827
85	41129	28919	9640

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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>	2239.6	2239.6	2239.6	2239.6	2239.6	2239.6	2239.6	2239.6	2239.6	2239.6
<b>5</b>	2351.8	2349.6	2349.6	2347.4	2343.0	2338.6	2334.2	2327.6	2323.2	2314.4
<b>10</b>	2453.0	2450.8	2446.4	2442.0	2435.4	2424.4	2415.6	2402.4	2387.0	2371.6
<b>15</b>	2521.2	2519.0	2512.4	2503.6	2492.6	2477.2	2459.6	2439.8	2417.8	2393.6
<b>20</b>	2556.4	2554.2	2545.4	2532.2	2514.6	2492.6	2468.4	2439.8	2406.8	2373.8
<b>25</b>	2556.4	2552.0	2541.0	2523.4	2499.2	2470.6	2435.4	2395.8	2354.0	2310.0
<b>30</b>	2523.4	2516.8	2501.4	2477.2	2444.2	2404.6	2360.6	2307.8	2252.8	2197.8
<b>35</b>	2450.8	2442.0	2422.2	2391.4	2347.4	2296.8	2239.6	2175.8	2109.8	2039.4
<b>40</b>	2332.0	2323.2	2296.8	2257.2	2204.4	2142.8	2070.2	1995.4	1920.6	1845.8
<b>45</b>	2164.8	2153.8	2123.0	2076.8	2017.4	1940.4	1861.2	1777.6	1696.2	1619.2
<b>50</b>	1947.0	1933.8	1900.8	1850.2	1784.2	1702.8	1619.2	1533.4	1454.2	1377.2
<b>55</b>	1683.0	1672.0	1636.8	1584.0	1518.0	1438.8	1359.6	1278.2	1203.4	1130.8
<b>60</b>	1390.4	1379.4	1348.6	1300.2	1236.4	1170.4	1097.8	1027.4	959.2	897.6
<b>65</b>	1089.0	1078.0	1053.8	1014.2	963.6	906.4	847.0	789.8	730.4	690.8
<b>70</b>	798.6	792.0	772.2	743.6	710.6	668.8	624.8	580.8	539.0	503.8
<b>75</b>	543.4	539.0	525.8	508.2	484.0	455.4	426.8	398.2	369.6	345.4
<b>80</b>	321.2	319.0	312.4	301.4	290.4	275.0	257.4	242.0	224.4	209.0
<b>85</b>	140.8	138.6	138.6	134.2	132.0	127.6	121.0	114.4	105.6	99.0
<b>90</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

**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>	2239.6	2239.6	2239.6	2239.6	2239.6	2239.6	2239.6	2239.6	2239.6	2239.6
<b>5</b>	2307.8	2299.0	2290.2	2281.4	2272.6	2261.6	2250.6	2241.8	2230.8	2219.8
<b>10</b>	2356.2	2338.6	2318.8	2299.0	2279.2	2257.2	2235.2	2213.2	2191.2	2169.2
<b>15</b>	2367.2	2340.8	2310.0	2281.4	2250.6	2219.8	2189.0	2156.0	2123.0	2092.2
<b>20</b>	2338.6	2301.2	2261.6	2222.0	2182.4	2140.6	2101.0	2061.4	2019.6	1980.0
<b>25</b>	2263.8	2213.2	2164.8	2116.4	2068.0	2019.6	1973.4	1927.2	1881.0	1834.8
<b>30</b>	2140.6	2081.2	2024.0	1966.8	1914.0	1861.2	1810.6	1762.2	1713.8	1663.2
<b>35</b>	1975.6	1907.4	1845.8	1786.4	1731.4	1678.6	1628.0	1579.6	1529.0	1478.4
<b>40</b>	1773.2	1702.8	1639.0	1579.6	1526.8	1476.2	1425.6	1379.4	1331.0	1282.6
<b>45</b>	1544.4	1478.4	1414.6	1357.4	1306.8	1258.4	1212.2	1170.4	1128.6	1082.4
<b>50</b>	1302.4	1238.6	1179.2	1126.4	1080.2	1038.4	998.8	961.4	924.0	882.2
<b>55</b>	1064.8	1005.4	952.6	906.4	866.8	829.4	794.2	763.4	734.8	701.8
<b>60</b>	840.4	789.8	743.6	706.2	673.2	642.4	613.8	589.6	563.2	539.0
<b>65</b>	642.4	602.8	567.6	534.6	506.0	481.8	459.8	440.0	420.2	398.2
<b>70</b>	470.8	440.0	411.4	387.2	365.2	345.4	327.8	310.2	294.8	279.4
<b>75</b>	321.2	301.4	281.6	264.0	246.4	228.8	215.6	202.4	191.4	178.2
<b>80</b>	193.6	180.4	169.4	156.2	145.2	134.2	121.0	110.0	101.2	92.4
<b>85</b>	90.2	83.6	77.0	70.4	63.8	57.2	48.4	39.6	33.0	30.8
<b>90</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

**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>	2239.6	2239.6	2239.6	2239.6	2239.6	2239.6	2239.6	2239.6	2239.6	2239.6
<b>5</b>	2208.8	2197.8	2189.0	2178.0	2169.2	2160.4	2151.6	2142.8	2136.2	2129.6
<b>10</b>	2147.2	2125.2	2103.2	2081.2	2057.0	2037.2	2017.4	1997.6	1980.0	1964.6
<b>15</b>	2059.2	2024.0	1988.8	1955.8	1920.6	1887.6	1854.6	1821.6	1790.8	1762.2
<b>20</b>	1938.2	1894.2	1850.2	1804.0	1755.6	1707.2	1661.0	1610.4	1564.2	1520.2
<b>25</b>	1786.4	1735.8	1680.8	1623.6	1562.0	1502.6	1441.0	1377.2	1315.6	1260.6
<b>30</b>	1610.4	1553.2	1489.4	1425.6	1353.0	1280.4	1210.0	1139.6	1073.6	1016.4
<b>35</b>	1423.4	1361.8	1293.6	1221.0	1141.8	1067.0	994.4	926.2	864.6	811.8

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**CANDELA TABULATION - (Cont.)**

<b>40</b>	1227.6	1163.8	1097.8	1023.0	946.0	873.4	809.6	750.2	699.6	655.6
<b>45</b>	1029.6	970.2	908.6	840.4	772.2	710.6	655.6	605.0	565.4	530.2
<b>50</b>	838.2	787.6	732.6	677.6	620.4	569.8	525.8	486.2	455.4	429.0
<b>55</b>	664.4	620.4	578.6	532.4	488.4	448.8	413.6	385.0	363.0	341.0
<b>60</b>	508.2	475.2	442.2	407.0	374.0	345.4	319.0	297.0	279.4	264.0
<b>65</b>	376.2	352.0	327.8	301.4	277.2	255.2	235.4	220.0	206.8	195.8
<b>70</b>	264.0	244.2	226.6	209.0	191.4	178.2	162.8	151.8	143.0	134.2
<b>75</b>	167.2	156.2	143.0	132.0	118.8	110.0	99.0	92.4	85.8	81.4
<b>80</b>	88.0	81.4	74.8	66.0	59.4	52.8	48.4	44.0	41.8	37.4
<b>85</b>	28.6	26.4	22.0	19.8	15.4	13.2	11.0	11.0	8.8	8.8
<b>90</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

**Vert. Horizontal Angles**

	<u><b>150</b></u>	<u><b>155</b></u>	<u><b>160</b></u>	<u><b>165</b></u>	<u><b>170</b></u>	<u><b>175</b></u>	<u><b>180</b></u>
<b>0</b>	2239.6	2239.6	2239.6	2239.6	2239.6	2239.6	2239.6
<b>5</b>	2123.0	2118.6	2112.0	2109.8	2107.6	2105.4	2105.4
<b>10</b>	1949.2	1936.0	1925.0	1916.2	1909.6	1905.2	1905.2
<b>15</b>	1735.8	1711.6	1691.8	1674.2	1663.2	1656.6	1654.4
<b>20</b>	1480.6	1445.4	1414.6	1390.4	1372.8	1361.8	1357.4
<b>25</b>	1210.0	1166.0	1128.6	1102.2	1080.2	1067.0	1062.6
<b>30</b>	965.8	921.8	886.6	860.2	840.4	829.4	825.0
<b>35</b>	767.8	732.6	701.8	682.0	666.6	655.6	653.4
<b>40</b>	620.4	591.8	569.8	552.2	541.2	532.4	530.2
<b>45</b>	503.8	481.8	464.2	451.0	442.2	437.8	435.6
<b>50</b>	407.0	391.6	378.4	369.6	363.0	358.6	356.4
<b>55</b>	325.6	312.4	303.6	297.0	290.4	288.2	286.0
<b>60</b>	253.0	242.0	235.4	228.8	226.6	224.4	222.2
<b>65</b>	187.0	180.4	176.0	171.6	169.4	167.2	167.2
<b>70</b>	129.8	123.2	121.0	116.6	116.6	114.4	114.4
<b>75</b>	77.0	74.8	72.6	70.4	70.4	68.2	68.2
<b>80</b>	37.4	35.2	33.0	33.0	33.0	30.8	30.8
<b>85</b>	6.6	6.6	6.6	6.6	6.6	4.4	4.4
<b>90</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	803.57	N.A.	16.00
0-30	1651.95	N.A.	32.90
0-40	2598.45	N.A.	51.70
0-60	4220.37	N.A.	84.00
0-80	4958.12	N.A.	98.70
0-90	5024.41	N.A.	100.00
10-90	4813.07	N.A.	95.80
20-40	1794.88	N.A.	35.70
20-50	2692.5	N.A.	53.60
40-70	2108.55	N.A.	42.00
60-80	737.76	N.A.	14.70
70-80	251.13	N.A.	5.00
80-90	66.29	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	5024.41	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	211.34
10-20	592.23
20-30	848.39
30-40	946.49
40-50	897.62
50-60	724.30
60-70	486.63
70-80	251.13
80-90	66.29
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

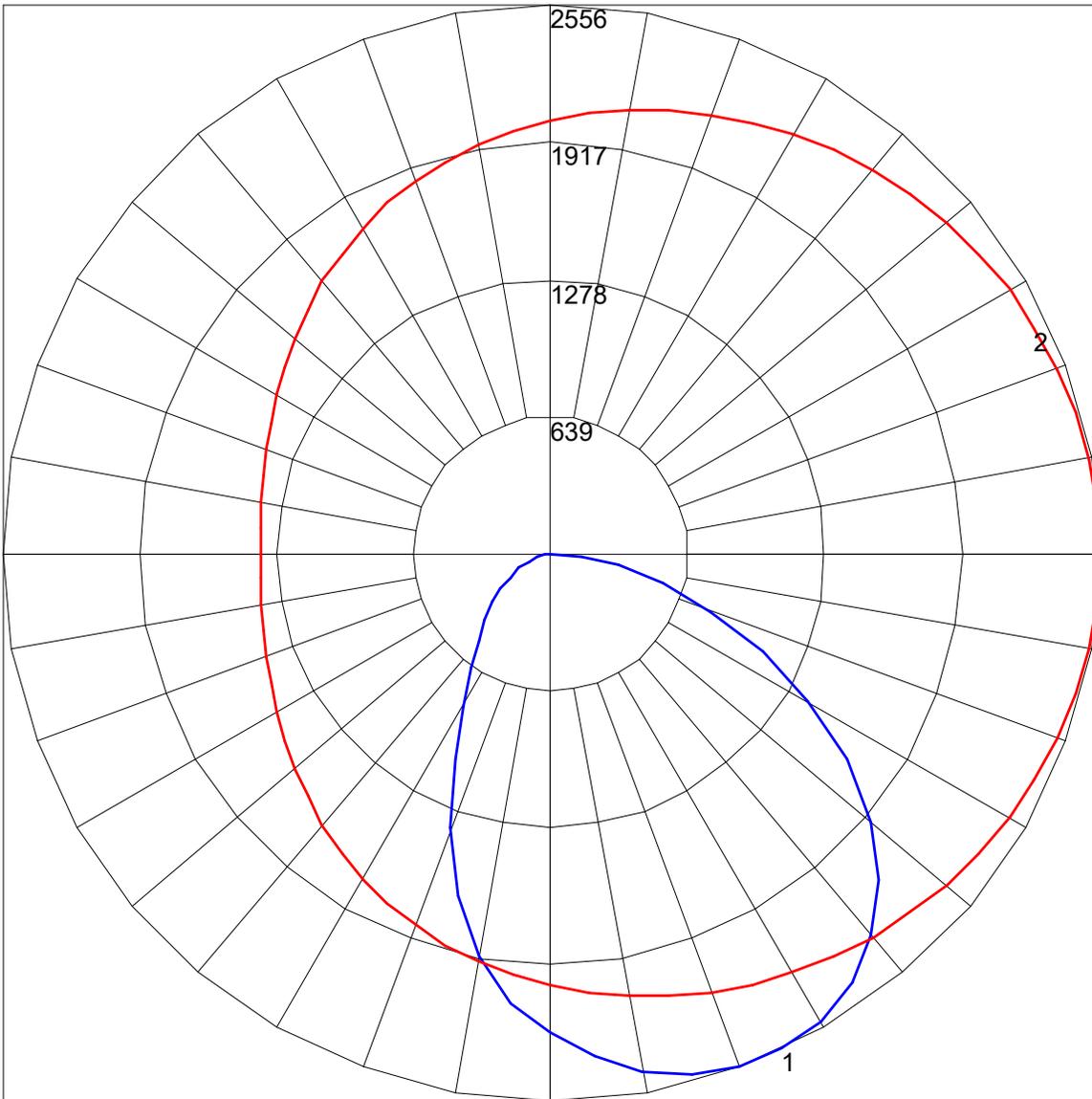
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	0
1	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86	0
2	101	93	87	81	98	91	85	80	88	83	78	84	80	77	81	78	75	73	0
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	63	0
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56	54	0
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50	48	0
6	73	60	52	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42	0
7	68	55	46	40	66	54	46	40	52	45	40	51	45	40	50	44	39	38	0
8	63	50	42	36	62	49	42	36	48	41	36	47	41	36	46	40	36	34	0
9	59	46	38	33	58	46	38	33	45	38	33	43	37	33	42	37	32	31	0
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28	0

POLAR GRAPH



Maximum Candela = 2556.4 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.)