

IES Report

WingRail® | 107 | White Baffle with EdgeSoft™ | 90 CRI | HO

107-WG-XX-4-48-XX-XX-XX-XX-X-X-Z-HO-359-WB-X-XX-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	84	87	89	90
Total Lumens, 4' rail length (1219mm)	4122	4252	4339	4383
Lumens per foot (305mm)	1031	1063	1085	1096
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	94	94	94	94

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_359_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-359-WB-AL

[LUMINAIRE] WingRail LED, 48", 3500K, 90 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	4339
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	88
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	67314	50348	35093
55	64515	43348	28167
65	56657	35940	21861
75	46163	29342	16260
85	35520	24975	8325

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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	1934.2	1934.2	1934.2	1934.2	1934.2	1934.2	1934.2	1934.2	1934.2	1934.2
5	2031.1	2029.2	2029.2	2027.3	2023.5	2019.7	2015.9	2010.2	2006.4	1998.8
10	2118.5	2116.6	2112.8	2109.0	2103.3	2093.8	2086.2	2074.8	2061.5	2048.2
15	2177.4	2175.5	2169.8	2162.2	2152.7	2139.4	2124.2	2107.1	2088.1	2067.2
20	2207.8	2205.9	2198.3	2186.9	2171.7	2152.7	2131.8	2107.1	2078.6	2050.1
25	2207.8	2204.0	2194.5	2179.3	2158.4	2133.7	2103.3	2069.1	2033.0	1995.0
30	2179.3	2173.6	2160.3	2139.4	2110.9	2076.7	2038.7	1993.1	1945.6	1898.1
35	2116.6	2109.0	2091.9	2065.3	2027.3	1983.6	1934.2	1879.1	1822.1	1761.3
40	2014.0	2006.4	1983.6	1949.4	1903.8	1850.6	1787.9	1723.3	1658.7	1594.1
45	1869.6	1860.1	1833.5	1793.6	1742.3	1675.8	1607.4	1535.2	1464.9	1398.4
50	1681.5	1670.1	1641.6	1597.9	1540.9	1470.6	1398.4	1324.3	1255.9	1189.4
55	1453.5	1444.0	1413.6	1368.0	1311.0	1242.6	1174.2	1103.9	1039.3	976.6
60	1200.8	1191.3	1164.7	1122.9	1067.8	1010.8	948.1	887.3	828.4	775.2
65	940.5	931.0	910.1	875.9	832.2	782.8	731.5	682.1	630.8	596.6
70	689.7	684.0	666.9	642.2	613.7	577.6	539.6	501.6	465.5	435.1
75	469.3	465.5	454.1	438.9	418.0	393.3	368.6	343.9	319.2	298.3
80	277.4	275.5	269.8	260.3	250.8	237.5	222.3	209.0	193.8	180.5
85	121.6	119.7	119.7	115.9	114.0	110.2	104.5	98.8	91.2	85.5
90	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>
0	1934.2	1934.2	1934.2	1934.2	1934.2	1934.2	1934.2	1934.2	1934.2	1934.2
5	1993.1	1985.5	1977.9	1970.3	1962.7	1953.2	1943.7	1936.1	1926.6	1917.1
10	2034.9	2019.7	2002.6	1985.5	1968.4	1949.4	1930.4	1911.4	1892.4	1873.4
15	2044.4	2021.6	1995.0	1970.3	1943.7	1917.1	1890.5	1862.0	1833.5	1806.9
20	2019.7	1987.4	1953.2	1919.0	1884.8	1848.7	1814.5	1780.3	1744.2	1710.0
25	1955.1	1911.4	1869.6	1827.8	1786.0	1744.2	1704.3	1664.4	1624.5	1584.6
30	1848.7	1797.4	1748.0	1698.6	1653.0	1607.4	1563.7	1521.9	1480.1	1436.4
35	1706.2	1647.3	1594.1	1542.8	1495.3	1449.7	1406.0	1364.2	1320.5	1276.8
40	1531.4	1470.6	1415.5	1364.2	1318.6	1274.9	1231.2	1191.3	1149.5	1107.7
45	1333.8	1276.8	1221.7	1172.3	1128.6	1086.8	1046.9	1010.8	974.7	934.8
50	1124.8	1069.7	1018.4	972.8	932.9	896.8	862.6	830.3	798.0	761.9
55	919.6	868.3	822.7	782.8	748.6	716.3	685.9	659.3	634.6	606.1
60	725.8	682.1	642.2	609.9	581.4	554.8	530.1	509.2	486.4	465.5
65	554.8	520.6	490.2	461.7	437.0	416.1	397.1	380.0	362.9	343.9
70	406.6	380.0	355.3	334.4	315.4	298.3	283.1	267.9	254.6	241.3
75	277.4	260.3	243.2	228.0	212.8	197.6	186.2	174.8	165.3	153.9
80	167.2	155.8	146.3	134.9	125.4	115.9	104.5	95.0	87.4	79.8
85	77.9	72.2	66.5	60.8	55.1	49.4	41.8	34.2	28.5	26.6
90	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>
0	1934.2	1934.2	1934.2	1934.2	1934.2	1934.2	1934.2	1934.2	1934.2	1934.2
5	1907.6	1898.1	1890.5	1881.0	1873.4	1865.8	1858.2	1850.6	1844.9	1839.2
10	1854.4	1835.4	1816.4	1797.4	1776.5	1759.4	1742.3	1725.2	1710.0	1696.7
15	1778.4	1748.0	1717.6	1689.1	1658.7	1630.2	1601.7	1573.2	1546.6	1521.9
20	1673.9	1635.9	1597.9	1558.0	1516.2	1474.4	1434.5	1390.8	1350.9	1312.9
25	1542.8	1499.1	1451.6	1402.2	1349.0	1297.7	1244.5	1189.4	1136.2	1088.7
30	1390.8	1341.4	1286.3	1231.2	1168.5	1105.8	1045.0	984.2	927.2	877.8
35	1229.3	1176.1	1117.2	1054.5	986.1	921.5	858.8	799.9	746.7	701.1

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CANDELA TABULATION - (Cont.)

40	1060.2	1005.1	948.1	883.5	817.0	754.3	699.2	647.9	604.2	566.2
45	889.2	837.9	784.7	725.8	666.9	613.7	566.2	522.5	488.3	457.9
50	723.9	680.2	632.7	585.2	535.8	492.1	454.1	419.9	393.3	370.5
55	573.8	535.8	499.7	459.8	421.8	387.6	357.2	332.5	313.5	294.5
60	438.9	410.4	381.9	351.5	323.0	298.3	275.5	256.5	241.3	228.0
65	324.9	304.0	283.1	260.3	239.4	220.4	203.3	190.0	178.6	169.1
70	228.0	210.9	195.7	180.5	165.3	153.9	140.6	131.1	123.5	115.9
75	144.4	134.9	123.5	114.0	102.6	95.0	85.5	79.8	74.1	70.3
80	76.0	70.3	64.6	57.0	51.3	45.6	41.8	38.0	36.1	32.3
85	24.7	22.8	19.0	17.1	13.3	11.4	9.5	9.5	7.6	7.6
90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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	1934.2	1934.2	1934.2	1934.2	1934.2	1934.2	1934.2
5	1833.5	1829.7	1824.0	1822.1	1820.2	1818.3	1818.3
10	1683.4	1672.0	1662.5	1654.9	1649.2	1645.4	1645.4
15	1499.1	1478.2	1461.1	1445.9	1436.4	1430.7	1428.8
20	1278.7	1248.3	1221.7	1200.8	1185.6	1176.1	1172.3
25	1045.0	1007.0	974.7	951.9	932.9	921.5	917.7
30	834.1	796.1	765.7	742.9	725.8	716.3	712.5
35	663.1	632.7	606.1	589.0	575.7	566.2	564.3
40	535.8	511.1	492.1	476.9	467.4	459.8	457.9
45	435.1	416.1	400.9	389.5	381.9	378.1	376.2
50	351.5	338.2	326.8	319.2	313.5	309.7	307.8
55	281.2	269.8	262.2	256.5	250.8	248.9	247.0
60	218.5	209.0	203.3	197.6	195.7	193.8	191.9
65	161.5	155.8	152.0	148.2	146.3	144.4	144.4
70	112.1	106.4	104.5	100.7	100.7	98.8	98.8
75	66.5	64.6	62.7	60.8	60.8	58.9	58.9
80	32.3	30.4	28.5	28.5	28.5	26.6	26.6
85	5.7	5.7	5.7	5.7	5.7	3.8	3.8
90	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	693.99	N.A.	16.00
0-30	1426.69	N.A.	32.90
0-40	2244.11	N.A.	51.70
0-60	3644.86	N.A.	84.00
0-80	4282.02	N.A.	98.70
0-90	4339.26	N.A.	100.00
10-90	4156.75	N.A.	95.80
20-40	1550.12	N.A.	35.70
20-50	2325.34	N.A.	53.60
40-70	1821.02	N.A.	42.00
60-80	637.15	N.A.	14.70
70-80	216.89	N.A.	5.00
80-90	57.25	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	4339.26	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	182.52
10-20	511.47
20-30	732.70
30-40	817.42
40-50	775.22
50-60	625.53
60-70	420.27
70-80	216.89
80-90	57.25
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

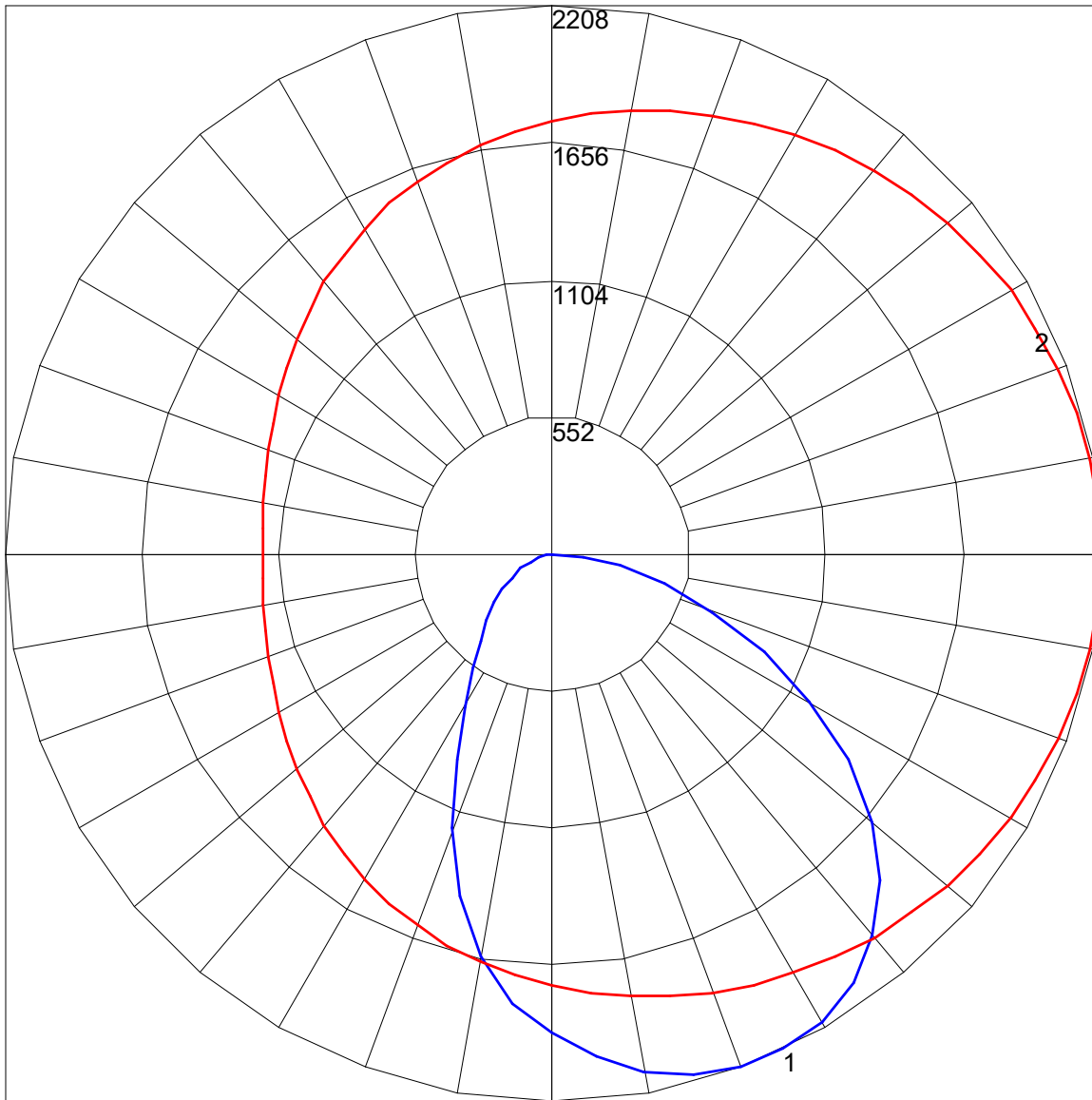
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	100	96	99	96	93	95	93	90	91	90	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	52	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	45	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 = 2207.8 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.)