

## IES Report

# WingRail® | 107 | Black Baffle with EdgeSoft™ | 80 CRI | HO

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

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	61	63	65	65
Total Lumens, 4' rail length (1219mm)	2990	3085	3148	3148
Lumens per foot (305mm)	748	771	787	787
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\_BB.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L121911520 (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-BB-AL

[LUMINAIRE] WingRail LED, 48", 3500K, 80 CRI, zipper board, black 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	3142
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	64
Total Luminaire Watts	49.06
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.80
Spacing Criterion (90-270)	1.06
Spacing Criterion (Diagonal)	1.14
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	65215	42514	20337
55	63208	35131	13956
65	55435	27862	9765
75	44588	21930	6983
85	30924	18103	3612

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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>	1560.768	1560.768	1560.768	1560.768	1560.768	1560.768	1560.768	1560.768	1560.768	1560.768
<b>5</b>	1705.462	1704.890	1703.416	1700.468	1696.596	1691.800	1685.156	1678.336	1670.042	1661.374
<b>10</b>	1840.080	1839.156	1835.086	1829.190	1819.972	1808.532	1795.640	1780.130	1762.244	1742.884
<b>15</b>	1937.804	1935.406	1928.410	1919.918	1904.056	1886.720	1865.512	1840.630	1813.328	1784.750
<b>20</b>	2005.674	2001.428	1992.034	1976.722	1954.788	1928.960	1898.534	1863.488	1824.592	1784.002
<b>25</b>	2040.346	2035.000	2021.712	2000.702	1970.276	1934.482	1893.364	1845.976	1793.968	1740.860
<b>30</b>	2042.568	2036.474	2017.290	1989.086	1948.870	1901.306	1847.824	1786.048	1720.400	1653.256
<b>35</b>	2008.622	1999.228	1976.172	1938.926	1887.644	1828.266	1761.144	1684.606	1606.616	1524.908
<b>40</b>	1933.008	1921.590	1892.814	1846.900	1787.148	1710.610	1629.298	1542.420	1453.364	1366.310
<b>45</b>	1811.304	1799.864	1763.542	1710.610	1640.716	1556.082	1464.980	1367.058	1270.786	1180.806
<b>50</b>	1640.166	1627.450	1590.006	1532.278	1455.564	1365.210	1270.610	1171.764	1075.316	984.764
<b>55</b>	1424.038	1411.674	1374.428	1316.348	1239.810	1152.206	1061.478	967.626	875.776	791.494
<b>60</b>	1177.660	1164.746	1130.646	1077.890	1008.370	929.434	849.046	766.964	690.074	617.958
<b>65</b>	920.216	909.348	880.748	835.032	777.854	712.932	650.980	583.660	519.860	462.506
<b>70</b>	677.160	669.042	647.108	613.734	570.944	523.182	473.748	424.336	374.902	331.760
<b>75</b>	453.288	448.316	434.104	412.346	384.142	352.594	319.594	286.396	252.472	222.948
<b>80</b>	262.240	259.644	252.274	241.032	225.918	208.934	190.322	171.138	151.030	133.342
<b>85</b>	105.864	105.292	103.466	100.694	96.448	91.278	85.008	78.012	69.718	61.974
<b>90</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**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>	1560.768	1560.768	1560.768	1560.768	1560.768	1560.768	1560.768	1560.768	1560.768	1560.768
<b>5</b>	1651.056	1640.540	1629.298	1616.560	1604.394	1591.678	1577.092	1563.826	1550.186	1536.524
<b>10</b>	1722.424	1700.468	1675.014	1650.132	1623.578	1596.650	1568.798	1539.120	1508.870	1479.918
<b>15</b>	1752.652	1719.102	1682.406	1644.412	1606.242	1566.224	1525.656	1482.316	1437.502	1394.712
<b>20</b>	1741.586	1694.946	1646.986	1596.826	1548.514	1496.880	1445.422	1392.688	1335.158	1279.828
<b>25</b>	1685.354	1626.152	1566.950	1505.922	1447.468	1386.594	1326.842	1266.364	1199.616	1136.168
<b>30</b>	1584.286	1513.292	1443.772	1374.626	1309.330	1242.758	1178.408	1113.310	1043.042	974.622
<b>35</b>	1446.346	1366.860	1290.894	1217.304	1149.632	1081.960	1014.816	949.366	880.198	811.778
<b>40</b>	1279.652	1196.646	1119.008	1044.692	976.294	909.348	844.426	781.902	721.798	655.600
<b>45</b>	1092.278	1010.592	932.580	860.288	795.564	737.836	676.434	620.356	564.850	505.472
<b>50</b>	897.534	820.094	741.532	684.728	626.824	573.716	522.632	475.794	427.834	379.698
<b>55</b>	714.978	643.962	581.262	525.404	475.596	429.682	388.366	351.120	314.424	278.102
<b>60</b>	551.958	487.784	435.028	389.664	350.746	314.050	283.250	255.046	227.744	201.938
<b>65</b>	409.948	360.888	318.120	281.050	250.800	224.246	201.388	180.906	162.096	144.210
<b>70</b>	293.040	257.818	226.468	198.440	175.384	156.024	139.788	124.850	111.386	99.396
<b>75</b>	196.394	172.238	151.228	132.418	116.182	101.618	89.628	79.860	70.994	63.624
<b>80</b>	117.282	102.168	89.078	77.638	67.672	58.278	49.610	43.164	37.620	33.572
<b>85</b>	54.208	46.838	40.392	34.496	29.502	24.706	20.108	15.488	12.364	11.242
<b>90</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**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>	1560.768	1560.768	1560.768	1560.768	1560.768	1560.768	1560.768	1560.768	1560.768	1560.768
<b>5</b>	1522.334	1508.870	1494.306	1481.018	1467.554	1455.564	1443.948	1432.332	1422.190	1412.598
<b>10</b>	1449.668	1418.868	1387.892	1357.840	1326.842	1298.638	1271.534	1244.232	1220.450	1198.692
<b>15</b>	1349.722	1302.334	1254.924	1208.284	1160.874	1116.060	1073.644	1029.754	992.882	958.386
<b>20</b>	1222.298	1161.622	1099.846	1039.544	976.096	917.466	861.938	806.982	760.144	717.728
<b>25</b>	1070.146	998.976	927.036	856.966	784.124	718.850	657.800	598.972	550.286	508.068
<b>30</b>	903.430	827.464	751.124	677.710	603.394	538.494	480.590	426.734	384.318	348.722
<b>35</b>	733.238	666.094	589.930	518.936	449.966	392.062	343.200	299.310	265.914	238.634

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**CANDELA TABULATION - (Cont.)**

<b>40</b>	586.058	515.438	448.866	386.342	328.064	280.852	242.132	210.232	188.474	166.716
<b>45</b>	447.018	387.640	332.860	282.898	238.634	201.938	174.262	151.228	134.244	120.802
<b>50</b>	333.410	286.220	242.682	205.436	179.806	149.182	128.722	112.860	101.244	92.400
<b>55</b>	243.606	210.232	180.906	152.702	129.822	111.760	98.098	87.230	79.112	72.842
<b>60</b>	179.806	153.978	132.220	113.784	97.922	85.932	76.164	68.420	62.524	57.728
<b>65</b>	127.248	110.836	96.448	84.458	73.766	65.274	58.278	52.184	47.938	44.638
<b>70</b>	88.330	77.462	68.420	60.478	52.932	46.662	41.492	37.444	34.672	32.648
<b>75</b>	56.430	50.336	44.814	39.094	33.572	29.326	26.378	24.354	22.858	21.956
<b>80</b>	30.250	27.104	23.430	19.734	16.962	15.114	14.014	13.288	12.914	12.716
<b>85</b>	10.692	8.844	7.370	6.270	5.896	5.720	5.720	5.544	5.346	5.346
<b>90</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**Vert. Horizontal Angles**  
**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>	1560.768	1560.768	1560.768	1560.768	1560.768	1560.768	1560.768
<b>5</b>	1404.678	1397.484	1391.390	1386.242	1383.272	1381.622	1380.522
<b>10</b>	1179.134	1162.348	1147.784	1136.542	1128.424	1123.452	1121.978
<b>15</b>	927.960	901.780	878.724	861.586	848.848	841.654	838.332
<b>20</b>	681.406	650.232	623.678	604.142	590.502	581.636	579.062
<b>25</b>	472.472	443.322	419.540	401.654	389.290	381.744	379.522
<b>30</b>	319.770	296.362	277.904	264.440	255.420	249.700	248.226
<b>35</b>	217.052	200.640	189.398	179.432	173.162	169.466	168.190
<b>40</b>	151.778	140.514	132.044	126.148	122.276	119.878	119.130
<b>45</b>	110.836	103.642	98.296	94.424	92.026	90.552	90.002
<b>50</b>	85.558	80.586	76.912	74.316	72.666	71.742	71.544
<b>55</b>	68.244	65.098	62.700	60.852	59.576	59.004	58.652
<b>60</b>	54.406	52.008	50.336	49.060	48.312	47.762	47.586
<b>65</b>	42.240	40.766	39.644	38.720	38.368	37.994	37.994
<b>70</b>	31.350	30.426	29.876	29.326	29.128	29.128	29.128
<b>75</b>	21.384	21.032	20.834	20.658	20.658	20.658	20.658
<b>80</b>	12.716	12.716	12.716	12.716	12.716	12.914	12.914
<b>85</b>	4.972	4.422	3.872	3.498	3.146	2.948	2.948
<b>90</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**IES INDOOR REPORT**  
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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fxt
0-20	542.14	N.A.	17.30
0-30	1089.1	N.A.	34.70
0-40	1682.44	N.A.	53.50
0-60	2664.32	N.A.	84.80
0-80	3101.33	N.A.	98.70
0-90	3141.85	N.A.	100.00
10-90	2995.9	N.A.	95.40
20-40	1140.3	N.A.	36.30
20-50	1688.76	N.A.	53.80
40-70	1269.48	N.A.	40.40
60-80	437.01	N.A.	13.90
70-80	149.41	N.A.	4.80
80-90	40.53	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	3141.85	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	145.95
10-20	396.19
20-30	546.97
30-40	593.34
40-50	548.46
50-60	433.42
60-70	287.60
70-80	149.41
80-90	40.53
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

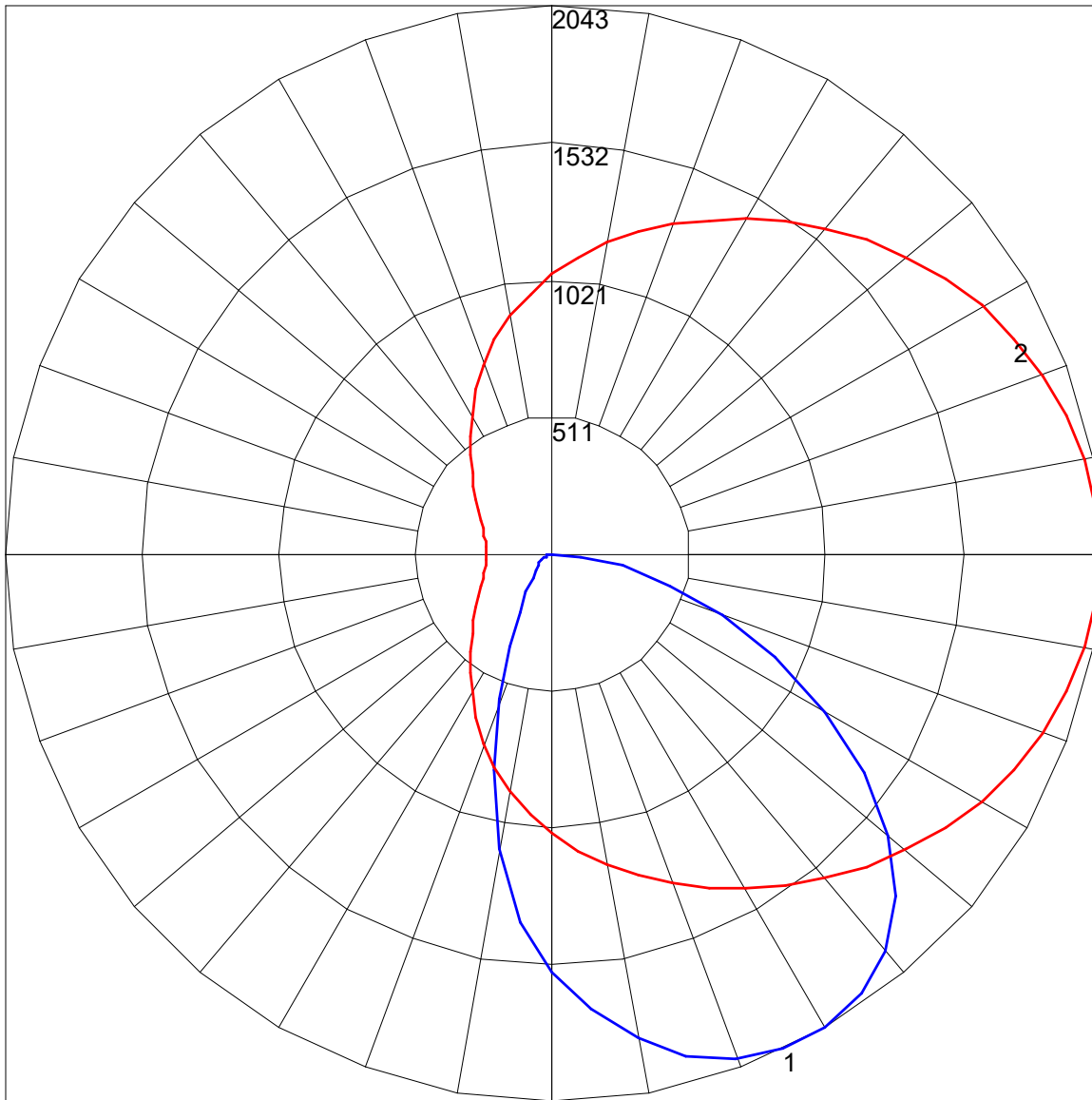
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76	74
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	73	69	66	63
4	86	74	66	60	83	73	66	60	71	64	59	68	63	58	66	61	57	55
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49
6	73	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39
8	64	51	43	38	62	50	43	37	49	42	37	48	42	37	47	41	37	35
9	60	47	39	34	59	47	39	34	46	39	34	44	38	34	43	38	34	32
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	41	35	31	29

POLAR GRAPH



Maximum Candela = 2042.568 Located At Horizontal Angle = 0, Vertical Angle = 30  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)  
# 2 - Horizontal Cone Through Vertical Angle (30) (Through Max. Cd.)