

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	53	55	56	57
Total Lumens, 4' rail length (1219mm)	2589	2670	2725	2779
Lumens per foot (305mm)	647	668	681	695
Input Power (W), 4' rail length (1219mm)	49.2	49.2	49.2	49.2
Watts per foot (305mm)	12.4	12.4	12.4	12.4
CRI	85	85	85	85

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] L071704219 (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-HO-35-BB
[LUMINAIRE] WingRail LED, 48", 3500K, 80 CRI, zipper board,
[MORE] black baffle, high output
[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2727
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	55
Total Luminaire Watts	49.22
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.62
Spacing Criterion (90-270)	1.04
Spacing Criterion (Diagonal)	1.06
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	46285	31165	16711
55	39229	23297	10454
65	27882	15798	6707
75	14805	9411	4497
85	78	1165	2213

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>
0.0	1616.738	1616.737	1616.737	1616.737	1616.737	1616.737	1616.737	1616.737	1616.737	1616.737
5.0	1785.082	1767.668	1763.730	1762.065	1760.850	1752.075	1745.572	1737.540	1729.372	1720.125
10.0	1860.773	1843.650	1838.520	1834.425	1830.037	1817.168	1806.120	1793.250	1778.265	1762.965
15.0	1900.733	1889.977	1883.475	1877.108	1869.233	1852.132	1834.717	1814.445	1792.350	1769.625
20.0	1914.660	1913.445	1903.140	1894.680	1877.265	1854.405	1829.115	1802.790	1774.935	1743.592
25.0	1901.025	1907.842	1894.072	1880.888	1861.380	1831.095	1796.422	1755.090	1711.800	1668.825
30.0	1861.380	1873.777	1853.190	1837.463	1807.785	1767.510	1721.047	1668.060	1615.230	1557.855
35.0	1789.605	1804.747	1780.695	1755.405	1710.743	1658.970	1599.322	1541.813	1472.625	1406.318
37.5	1746.922	1747.080	1721.655	1693.035	1651.253	1596.150	1531.822	1456.740	1381.793	1313.078
40.0	1680.615	1684.260	1657.305	1626.570	1576.620	1514.250	1445.220	1371.960	1294.605	1225.868
42.5	1601.595	1608.255	1578.735	1543.612	1484.888	1418.130	1346.220	1279.170	1195.447	1127.025
45.0	1515.307	1513.193	1482.615	1444.770	1391.040	1326.082	1252.665	1176.975	1089.338	1020.308
47.5	1408.747	1409.040	1381.500	1341.068	1276.290	1213.763	1140.660	1064.205	990.180	920.700
50.0	1293.098	1290.375	1262.970	1220.422	1165.928	1104.007	1032.120	952.020	877.095	809.730
52.5	1170.180	1163.655	1142.910	1102.050	1045.890	986.692	917.663	850.298	778.253	714.217
55.0	1041.795	1035.900	1014.862	977.310	920.385	864.225	808.965	745.852	677.273	618.683
57.5	911.925	904.500	884.205	849.240	806.558	754.470	700.290	637.155	578.430	524.835
60.0	783.540	774.607	760.230	731.160	690.435	644.872	596.903	547.087	495.158	448.087
62.5	661.837	652.298	639.742	612.337	579.330	540.428	503.955	462.015	412.200	372.082
65.0	545.580	538.155	530.888	510.300	480.038	448.988	414.473	379.058	344.543	309.127
67.5	438.998	433.710	428.265	409.027	386.775	363.173	336.217	305.325	277.178	250.830
70.0	341.505	337.590	332.123	319.410	304.425	285.053	265.230	240.705	217.980	196.942
72.5	254.925	253.417	247.365	239.782	229.050	215.415	200.880	185.602	169.537	153.360
75.0	177.412	176.670	172.732	169.403	162.428	154.553	145.170	133.830	123.683	112.770
77.5	109.912	109.912	108.382	106.582	104.760	100.823	95.828	90.225	83.722	77.198
80.0	53.595	53.438	54.203	54.337	55.260	55.395	54.653	53.280	51.008	47.992
85.0	0.315	0.315	0.315	0.608	0.765	0.608	0.900	1.508	3.038	4.702
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. 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>
0.0	1616.737	1616.737	1616.737	1616.737	1616.737	1616.737	1616.737	1616.737	1616.737	1616.737
5.0	1711.350	1696.207	1677.600	1660.027	1648.237	1640.047	1632.172	1610.977	1594.642	1579.207
10.0	1747.372	1729.215	1700.145	1672.605	1654.290	1631.565	1615.230	1582.380	1555.875	1527.570
15.0	1747.080	1719.832	1685.003	1650.487	1620.832	1588.140	1562.693	1524.690	1486.260	1445.535
20.0	1710.585	1667.610	1623.555	1579.500	1542.870	1503.203	1470.960	1424.632	1371.195	1321.852
25.0	1621.575	1574.955	1521.967	1471.860	1425.848	1376.055	1337.130	1285.223	1230.570	1173.510
30.0	1500.322	1445.378	1379.835	1322.910	1269.315	1216.800	1175.625	1121.872	1064.047	1004.107
35.0	1341.382	1275.840	1213.920	1154.273	1096.898	1043.303	999.405	947.497	885.128	825.773
37.5	1246.320	1184.400	1122.030	1062.382	1005.165	951.435	911.160	862.268	805.950	739.643
40.0	1157.602	1087.807	1026.652	966.263	911.317	859.545	815.040	766.890	710.730	655.020
42.5	1057.388	987.908	929.633	870.592	816.390	765.675	722.543	678.487	629.888	572.985
45.0	952.785	888.908	832.298	773.707	722.092	671.220	633.533	592.492	547.087	495.473
47.5	855.607	784.148	729.945	675.158	626.872	586.597	547.538	511.223	463.522	418.567
50.0	747.967	690.300	637.920	588.105	539.212	505.012	466.853	435.217	399.645	356.647
52.5	656.235	597.487	549.202	504.697	463.072	426.127	393.750	366.030	333.788	298.980
55.0	565.560	510.908	467.168	428.850	392.377	358.178	330.615	307.462	277.627	248.558
57.5	477.293	433.868	394.358	360.900	326.070	301.702	278.392	257.805	233.730	206.933
60.0	404.933	364.837	330.772	299.880	273.397	250.088	230.107	212.377	192.555	170.460
62.5	335.767	303.660	275.512	250.380	226.912	206.640	190.597	175.613	160.470	142.447
65.0	276.885	250.088	226.463	205.718	186.502	171.202	156.218	144.113	131.243	118.080
67.5	226.012	203.917	183.780	167.265	151.695	138.825	127.463	117.630	108.248	96.593
70.0	178.020	160.920	146.385	133.830	122.468	112.635	103.252	95.513	87.660	79.920

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CANDELA TABULATION - (Cont.)

72.5	137.610	124.740	113.850	104.153	96.120	88.560	81.293	74.925	69.188	63.585
75.0	102.938	93.847	84.915	78.412	72.203	66.915	62.370	58.140	53.888	49.343
77.5	70.987	65.093	60.097	55.553	52.222	48.892	45.270	42.547	39.960	37.237
80.0	44.663	41.625	38.745	36.472	34.358	32.693	30.735	29.070	27.563	26.190
85.0	6.367	6.817	7.560	8.168	8.775	8.775	9.090	9.090	8.932	9.383
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Horizontal Angles
Angles

	100	105	110	115	120	125	130	135	140	145
0.0	1616.737	1616.737	1616.737	1616.737	1616.737	1616.737	1616.737	1616.737	1616.737	1616.737
5.0	1569.352	1547.550	1527.570	1511.977	1501.245	1492.920	1481.557	1468.395	1456.582	1442.947
10.0	1501.987	1468.530	1431.900	1402.245	1373.918	1350.608	1320.638	1290.060	1262.970	1233.450
15.0	1408.432	1359.855	1308.825	1262.205	1217.858	1173.352	1122.322	1072.372	1026.810	983.970
20.0	1279.170	1218.150	1152.158	1089.473	1026.517	961.560	900.247	835.155	776.430	717.548
25.0	1117.642	1047.713	967.770	892.530	816.705	743.580	662.130	594.023	534.060	475.335
30.0	941.580	863.010	776.880	694.080	612.945	536.490	459.900	398.880	347.580	304.740
35.0	766.283	688.185	592.650	510.615	436.275	369.832	310.320	262.957	224.640	192.713
37.5	672.885	596.430	517.275	438.705	368.910	306.697	247.365	207.855	177.120	154.417
40.0	589.163	516.510	435.375	363.757	301.410	247.365	204.053	170.303	146.093	126.248
42.5	511.673	444.308	369.067	304.740	250.222	204.210	164.700	138.218	118.688	103.388
45.0	437.940	377.100	310.478	254.632	206.933	167.738	136.238	114.750	99.157	87.188
47.5	366.345	317.587	259.470	211.477	171.518	139.275	115.200	97.942	85.388	75.082
50.0	311.850	265.973	215.572	175.905	143.055	117.022	95.985	82.350	72.968	65.858
52.5	260.077	220.702	179.077	146.542	119.430	98.707	83.407	71.910	64.485	59.040
55.0	215.865	183.465	151.988	123.525	101.722	85.388	73.125	64.192	58.275	53.438
57.5	179.843	153.360	128.520	106.875	87.795	73.733	64.035	57.083	52.672	49.208
60.0	148.343	127.170	108.990	90.382	76.297	65.858	57.825	52.380	48.443	45.405
62.5	125.190	108.248	91.440	77.670	66.757	58.275	51.322	47.542	44.663	41.940
65.0	104.603	91.125	79.020	67.365	58.590	51.165	46.620	43.447	40.883	39.060
67.5	85.995	75.847	66.150	57.825	51.165	46.013	42.075	39.060	37.080	35.572
70.0	71.145	63.585	56.160	50.108	44.663	40.117	37.080	34.515	33.142	31.793
72.5	57.375	51.930	46.620	41.490	37.395	34.358	32.085	30.285	29.070	28.148
75.0	45.405	41.175	37.395	33.907	31.027	28.755	27.090	25.425	24.525	24.233
77.5	34.515	31.793	29.363	26.797	24.683	22.567	21.352	20.902	20.430	20.295
80.0	24.525	23.017	21.488	19.823	18.315	17.100	16.358	16.200	16.200	16.043
85.0	9.090	8.775	8.482	8.325	8.033	8.482	8.775	8.775	9.225	9.540
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Horizontal Angles
Angles

	150	155	160	165	170	175	180
0.0	1616.737	1616.737	1616.737	1616.737	1616.737	1616.737	1616.737
5.0	1430.842	1423.125	1416.172	1409.805	1403.753	1398.915	1390.882
10.0	1209.217	1189.553	1172.138	1158.503	1145.947	1138.995	1125.967
15.0	944.910	911.768	883.462	858.780	842.288	832.140	817.763
20.0	665.933	627.165	595.237	571.163	553.455	541.192	531.045
25.0	432.495	397.373	370.575	349.245	335.767	327.735	320.625
30.0	272.183	246.308	227.070	211.792	202.995	197.865	194.670
35.0	169.245	153.495	142.290	134.123	129.285	126.090	123.525
37.5	137.452	124.897	116.415	109.147	105.502	103.545	102.037
40.0	111.870	102.780	96.120	91.440	89.010	87.052	85.680
42.5	93.555	86.287	81.743	77.805	75.847	74.790	73.868
45.0	80.235	74.790	70.695	67.972	65.993	65.543	64.800
47.5	69.480	65.093	62.370	60.413	59.040	58.590	58.140
50.0	61.470	58.275	56.160	54.495	53.730	53.280	52.987

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CANDELA TABULATION - (Cont.)

52.5	55.395	53.145	51.322	50.265	49.500	49.050	48.735
55.0	50.557	48.735	47.542	46.778	46.328	46.170	46.013
57.5	46.778	45.720	44.505	43.898	43.290	43.290	42.998
60.0	43.740	42.547	41.782	41.490	41.017	41.017	40.568
62.5	40.725	39.825	39.218	38.903	38.745	38.745	38.745
65.0	37.553	37.080	36.630	36.337	36.337	36.337	36.337
67.5	34.515	34.222	33.907	33.907	33.615	33.750	33.907
70.0	31.343	31.027	30.578	30.578	30.892	30.735	30.578
72.5	27.855	27.405	27.563	27.563	27.855	27.698	27.855
75.0	24.075	23.918	24.075	24.075	24.525	24.367	24.525
77.5	19.980	20.295	20.587	20.745	20.902	20.902	20.902
80.0	16.492	16.492	16.965	17.100	17.258	17.573	17.573
85.0	9.540	9.990	10.305	10.598	10.755	10.755	10.890
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	548.22	N.A.	20.10
0-30	1079.01	N.A.	39.60
0-40	1629.22	N.A.	59.70
0-60	2441.71	N.A.	89.50
0-80	2714.76	N.A.	99.50
0-90	2727.23	N.A.	100.00
10-90	2577.47	N.A.	94.50
20-40	1081.00	N.A.	39.60
20-50	1556.52	N.A.	57.10
40-70	1006.04	N.A.	36.90
60-80	273.05	N.A.	10.00
70-80	79.50	N.A.	2.90
80-90	12.47	N.A.	0.50
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	2727.23	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	149.76
10-20	398.46
20-30	530.79
30-40	550.21
40-50	475.52
50-60	336.98
60-70	193.55
70-80	79.50
80-90	12.47
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

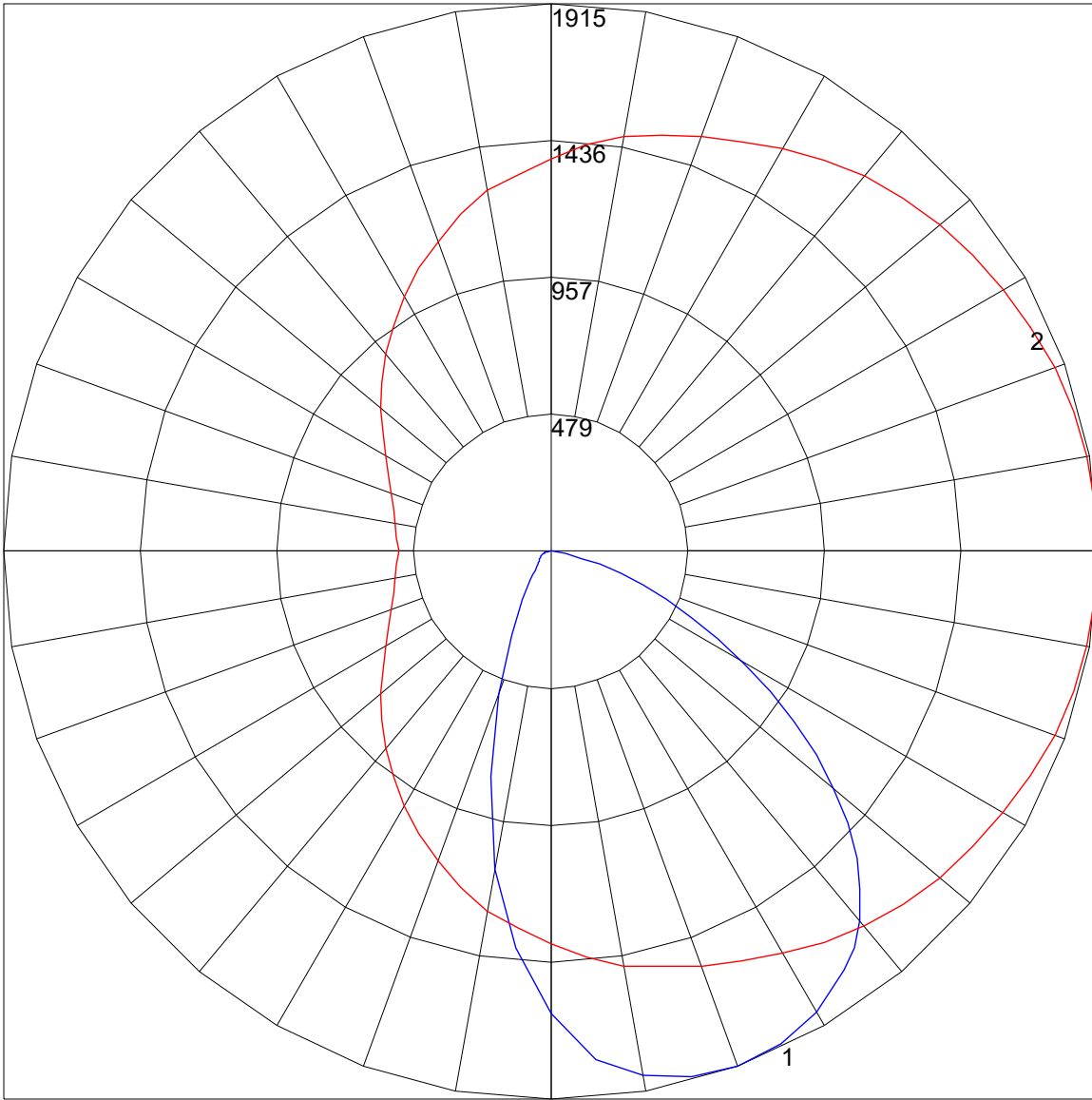
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	111	107	104	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77
3	95	86	79	73	93	84	78	73	82	76	72	79	74	70	76	73	69	67
4	88	77	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53
6	76	64	56	50	74	63	56	50	62	55	50	60	54	49	58	53	49	47
7	71	59	51	45	69	58	51	45	57	50	45	55	49	45	54	49	44	43
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	40	39
9	62	50	43	38	61	50	42	38	49	42	37	48	42	37	47	41	37	35
10	59	47	39	35	58	46	39	35	45	39	34	44	38	34	44	38	34	33

POLAR GRAPH



Maximum Candela = 1914.66 Located At Horizontal Angle = 0, Vertical Angle = 20
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (20) (Through Max. Cd.)