

**IES Report**

**WingRail® | 107 | Black Baffle with EdgeSoft™ | 90 CRI | HO**

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

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	46	47	48	49
Total Lumens, 4' rail length (1219mm)	2232	2302	2349	2396
Lumens per foot (305mm)	558	576	587	599
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	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\_HO\_359\_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-359-BB  
 [LUMINAIRE] WingRail LED, 48", 3500K, 90 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	2351
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	48
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	39908	26871	14408
55	33825	20087	9014
65	24041	13622	5783
75	12765	8114	3877
85	67	1005	1909

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>0.0</b>	1393.987	1393.987	1393.987	1393.987	1393.987	1393.987	1393.987	1393.987	1393.987	1393.987
<b>5.0</b>	1539.138	1524.122	1520.727	1519.292	1518.244	1510.678	1505.071	1498.146	1491.103	1483.130
<b>10.0</b>	1604.399	1589.636	1585.213	1581.682	1577.899	1566.802	1557.277	1546.180	1533.260	1520.068
<b>15.0</b>	1638.854	1629.581	1623.974	1618.484	1611.694	1596.950	1581.934	1564.455	1545.404	1525.810
<b>20.0</b>	1650.862	1649.815	1640.930	1633.635	1618.620	1598.909	1577.104	1554.406	1530.388	1503.364
<b>25.0</b>	1639.106	1644.984	1633.111	1621.743	1604.923	1578.811	1548.915	1513.278	1475.952	1438.898
<b>30.0</b>	1604.923	1615.613	1597.862	1584.301	1558.712	1523.986	1483.925	1438.238	1392.687	1343.217
<b>35.0</b>	1543.037	1556.093	1535.355	1513.549	1475.040	1430.401	1378.971	1329.385	1269.730	1212.558
<b>37.5</b>	1506.235	1506.371	1484.449	1459.772	1423.747	1376.236	1320.771	1256.034	1191.412	1132.165
<b>40.0</b>	1449.064	1452.206	1428.965	1402.465	1359.397	1305.620	1246.101	1182.934	1116.237	1056.970
<b>42.5</b>	1380.931	1386.673	1361.220	1330.937	1280.303	1222.743	1160.741	1102.929	1030.741	971.746
<b>45.0</b>	1306.532	1304.708	1278.344	1245.713	1199.386	1143.378	1080.076	1014.814	939.251	879.732
<b>47.5</b>	1214.653	1214.906	1191.160	1156.298	1100.446	1046.533	983.502	917.581	853.755	793.848
<b>50.0</b>	1114.937	1112.590	1088.961	1052.275	1005.289	951.900	889.917	820.853	756.251	698.167
<b>52.5</b>	1008.955	1003.329	985.442	950.212	901.790	850.748	791.229	733.145	671.027	615.814
<b>55.0</b>	898.259	893.176	875.037	842.658	793.576	745.154	697.508	643.091	583.959	533.442
<b>57.5</b>	786.282	779.880	762.381	732.234	695.432	650.521	603.806	549.369	498.735	452.524
<b>60.0</b>	675.586	667.884	655.487	630.422	595.308	556.023	514.663	471.711	426.936	386.351
<b>62.5</b>	570.651	562.425	551.600	527.971	499.511	465.969	434.521	398.360	355.408	320.818
<b>65.0</b>	470.411	464.009	457.743	439.992	413.899	387.127	357.367	326.832	297.072	266.537
<b>67.5</b>	378.513	373.954	369.260	352.673	333.486	313.135	289.894	263.258	238.989	216.271
<b>70.0</b>	294.453	291.078	286.363	275.402	262.482	245.779	228.687	207.541	187.947	169.808
<b>72.5</b>	219.802	218.502	213.284	206.746	197.492	185.736	173.203	160.031	146.179	132.230
<b>75.0</b>	152.969	152.329	148.934	146.063	140.049	133.259	125.169	115.391	106.642	97.233
<b>77.5</b>	94.769	94.769	93.450	91.898	90.326	86.931	82.625	77.794	72.187	66.561
<b>80.0</b>	46.211	46.075	46.735	46.851	47.646	47.763	47.123	45.939	43.980	41.380
<b>85.0</b>	0.272	0.272	0.272	0.524	0.660	0.524	0.776	1.300	2.619	4.055
<b>90.0</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>0.0</b>	1393.987	1393.987	1393.987	1393.987	1393.987	1393.987	1393.987	1393.987	1393.987	1393.987
<b>5.0</b>	1475.564	1462.508	1446.464	1431.313	1421.147	1414.085	1407.295	1389.021	1374.936	1361.628
<b>10.0</b>	1506.623	1490.968	1465.903	1442.157	1426.366	1406.772	1392.687	1364.363	1341.510	1317.105
<b>15.0</b>	1506.371	1482.878	1452.847	1423.087	1397.518	1369.330	1347.388	1314.622	1281.486	1246.372
<b>20.0</b>	1474.904	1437.850	1399.865	1361.880	1330.297	1296.095	1268.294	1228.350	1182.275	1139.731
<b>25.0</b>	1398.158	1357.961	1312.274	1269.070	1229.397	1186.465	1152.903	1108.147	1061.025	1011.826
<b>30.0</b>	1293.611	1246.237	1189.724	1140.642	1094.432	1049.152	1013.650	967.303	917.445	865.764
<b>35.0</b>	1156.570	1100.058	1046.669	995.239	945.769	899.559	861.709	816.953	763.177	711.999
<b>37.5</b>	1074.605	1021.216	967.439	916.010	866.676	820.348	785.622	743.466	694.908	637.736
<b>40.0</b>	998.111	937.932	885.203	833.133	785.758	741.119	702.746	661.230	612.807	564.773
<b>42.5</b>	911.703	851.796	801.550	750.644	703.910	660.182	622.992	585.007	543.103	494.040
<b>45.0</b>	821.512	766.436	717.625	667.108	622.604	578.741	546.246	510.860	471.711	427.207
<b>47.5</b>	737.724	676.109	629.375	582.136	540.503	505.777	472.099	440.787	399.659	360.898
<b>50.0</b>	644.914	595.192	550.029	507.077	464.921	435.433	402.531	375.254	344.583	307.509
<b>52.5</b>	565.820	515.167	473.535	435.161	399.271	367.417	339.500	315.599	287.799	257.787
<b>55.0</b>	487.638	440.516	402.802	369.764	338.317	308.829	285.064	265.101	239.377	214.312
<b>57.5</b>	411.532	374.090	340.024	311.176	281.145	260.135	240.036	222.285	201.527	178.422
<b>60.0</b>	349.142	314.571	285.199	258.563	235.729	215.631	198.404	183.117	166.025	146.974
<b>62.5</b>	289.506	261.822	237.553	215.883	195.649	178.170	164.337	151.417	138.361	122.821
<b>65.0</b>	238.736	215.631	195.261	177.374	160.807	147.615	134.694	124.257	113.160	101.811
<b>67.5</b>	194.873	175.822	158.459	144.220	130.795	119.698	109.901	101.423	93.333	83.284
<b>70.0</b>	153.493	138.749	126.216	115.391	105.594	97.116	89.027	82.353	75.582	68.909

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**CANDELA TABULATION - (Cont.)**

<b>72.5</b>	118.650	107.554	98.164	89.803	82.877	76.358	70.092	64.602	59.655	54.824
<b>75.0</b>	88.755	80.917	73.216	67.609	62.255	57.696	53.777	50.130	46.463	42.544
<b>77.5</b>	61.207	56.124	51.817	47.899	45.027	42.156	39.033	36.685	34.454	32.107
<b>80.0</b>	38.509	35.890	33.407	31.447	29.624	28.188	26.500	25.065	23.765	22.582
<b>85.0</b>	5.490	5.878	6.518	7.042	7.566	7.566	7.838	7.838	7.702	8.090
<b>90.0</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**

	<b>100</b>	<b>105</b>	<b>110</b>	<b>115</b>	<b>120</b>	<b>125</b>	<b>130</b>	<b>135</b>	<b>140</b>	<b>145</b>
<b>0.0</b>	1393.987	1393.987	1393.987	1393.987	1393.987	1393.987	1393.987	1393.987	1393.987	1393.987
<b>5.0</b>	1353.131	1334.332	1317.105	1303.661	1294.407	1287.229	1277.432	1266.083	1255.898	1244.141
<b>10.0</b>	1295.047	1266.199	1234.616	1209.047	1184.622	1164.524	1138.683	1112.318	1088.961	1063.508
<b>15.0</b>	1214.382	1172.497	1128.498	1088.301	1050.064	1011.691	967.691	924.623	885.338	848.401
<b>20.0</b>	1102.929	1050.316	993.416	939.367	885.086	829.078	776.213	720.089	669.455	618.685
<b>25.0</b>	963.656	903.361	834.433	769.559	704.181	641.131	570.903	512.179	460.478	409.844
<b>30.0</b>	811.851	744.106	669.843	598.451	528.495	462.574	396.536	343.923	299.691	262.754
<b>35.0</b>	660.706	593.368	510.996	440.264	376.166	318.878	267.565	226.728	193.690	166.161
<b>37.5</b>	580.176	514.255	446.006	378.261	318.082	264.441	213.284	179.217	152.717	133.142
<b>40.0</b>	507.989	445.346	375.390	313.640	259.882	213.284	175.939	146.839	125.964	108.853
<b>42.5</b>	441.175	383.092	318.218	262.754	215.747	176.074	142.008	119.174	102.335	89.143
<b>45.0</b>	377.602	325.144	267.701	219.550	178.422	144.627	117.467	98.940	85.496	75.175
<b>47.5</b>	315.871	273.831	223.721	182.341	147.886	120.086	99.328	84.448	73.623	64.738
<b>50.0</b>	268.884	229.327	185.871	151.669	123.345	100.899	82.760	71.004	62.914	56.784
<b>52.5</b>	224.245	190.295	154.405	126.352	102.975	85.108	71.916	62.002	55.600	50.906
<b>55.0</b>	186.124	158.188	131.047	106.506	87.707	73.623	63.050	55.348	50.246	46.075
<b>57.5</b>	155.064	132.230	110.813	92.150	75.699	63.574	55.212	49.218	45.415	42.428
<b>60.0</b>	127.904	109.649	93.974	77.930	65.785	56.784	49.858	45.163	41.768	39.149
<b>62.5</b>	107.942	93.333	78.842	66.969	57.560	50.246	44.251	40.992	38.509	36.162
<b>65.0</b>	90.191	78.570	68.133	58.084	50.518	44.116	40.197	37.461	35.250	33.678
<b>67.5</b>	74.147	65.397	57.036	49.858	44.116	39.673	36.278	33.678	31.971	30.671
<b>70.0</b>	61.343	54.824	48.422	43.204	38.509	34.590	31.971	29.760	28.576	27.412
<b>72.5</b>	49.470	44.775	40.197	35.774	32.243	29.624	27.664	26.112	25.065	24.269
<b>75.0</b>	39.149	35.502	32.243	29.236	26.753	24.793	23.358	21.922	21.146	20.894
<b>77.5</b>	29.760	27.412	25.317	23.105	21.282	19.458	18.411	18.023	17.615	17.499
<b>80.0</b>	21.146	19.846	18.527	17.091	15.792	14.744	14.104	13.968	13.968	13.832
<b>85.0</b>	7.838	7.566	7.314	7.178	6.926	7.314	7.566	7.566	7.954	8.226
<b>90.0</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**

	<b>150</b>	<b>155</b>	<b>160</b>	<b>165</b>	<b>170</b>	<b>175</b>	<b>180</b>
<b>0.0</b>	1393.987	1393.987	1393.987	1393.987	1393.987	1393.987	1393.987
<b>5.0</b>	1233.704	1227.050	1221.055	1215.565	1210.347	1206.176	1199.250
<b>10.0</b>	1042.614	1025.659	1010.643	998.887	988.061	982.067	970.834
<b>15.0</b>	814.722	786.146	761.741	740.459	726.239	717.490	705.093
<b>20.0</b>	574.182	540.756	513.227	492.469	477.201	466.628	457.879
<b>25.0</b>	372.907	342.623	319.518	301.127	289.506	282.580	276.450
<b>30.0</b>	234.682	212.372	195.785	182.612	175.027	170.604	167.849
<b>35.0</b>	145.927	132.347	122.686	115.643	111.472	108.718	106.506
<b>37.5</b>	118.515	107.689	100.376	94.109	90.967	89.279	87.979
<b>40.0</b>	96.457	88.619	82.877	78.842	76.746	75.059	73.875
<b>42.5</b>	80.665	74.399	70.480	67.085	65.397	64.486	63.690
<b>45.0</b>	69.180	64.486	60.955	58.607	56.900	56.512	55.872
<b>47.5</b>	59.907	56.124	53.777	52.089	50.906	50.518	50.130
<b>50.0</b>	53.001	50.246	48.422	46.987	46.327	45.939	45.687

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**CANDELA TABULATION - (Cont.)**

<b>52.5</b>	47.763	45.823	44.251	43.340	42.680	42.292	42.020
<b>55.0</b>	43.592	42.020	40.992	40.333	39.945	39.809	39.673
<b>57.5</b>	40.333	39.421	38.373	37.849	37.326	37.326	37.073
<b>60.0</b>	37.714	36.685	36.026	35.774	35.366	35.366	34.978
<b>62.5</b>	35.114	34.338	33.814	33.543	33.407	33.407	33.407
<b>65.0</b>	32.379	31.971	31.583	31.331	31.331	31.331	31.331
<b>67.5</b>	29.760	29.507	29.236	29.236	28.984	29.100	29.236
<b>70.0</b>	27.024	26.753	26.365	26.365	26.636	26.500	26.365
<b>72.5</b>	24.017	23.629	23.765	23.765	24.017	23.881	24.017
<b>75.0</b>	20.758	20.622	20.758	20.758	21.146	21.010	21.146
<b>77.5</b>	17.227	17.499	17.751	17.887	18.023	18.023	18.023
<b>80.0</b>	14.220	14.220	14.628	14.744	14.880	15.151	15.151
<b>85.0</b>	8.226	8.614	8.885	9.137	9.273	9.273	9.390
<b>90.0</b>	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	472.69	N.A.	20.10
0-30	930.35	N.A.	39.60
0-40	1404.75	N.A.	59.70
0-60	2105.3	N.A.	89.50
0-80	2340.73	N.A.	99.50
0-90	2351.48	N.A.	100.00
10-90	2222.35	N.A.	94.50
20-40	932.06	N.A.	39.60
20-50	1342.06	N.A.	57.10
40-70	867.43	N.A.	36.90
60-80	235.43	N.A.	10.00
70-80	68.55	N.A.	2.90
80-90	10.75	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	2351.48	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	129.13
10-20	343.56
20-30	457.66
30-40	474.40
40-50	410.00
50-60	290.55
60-70	166.88
70-80	68.55
80-90	10.75
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

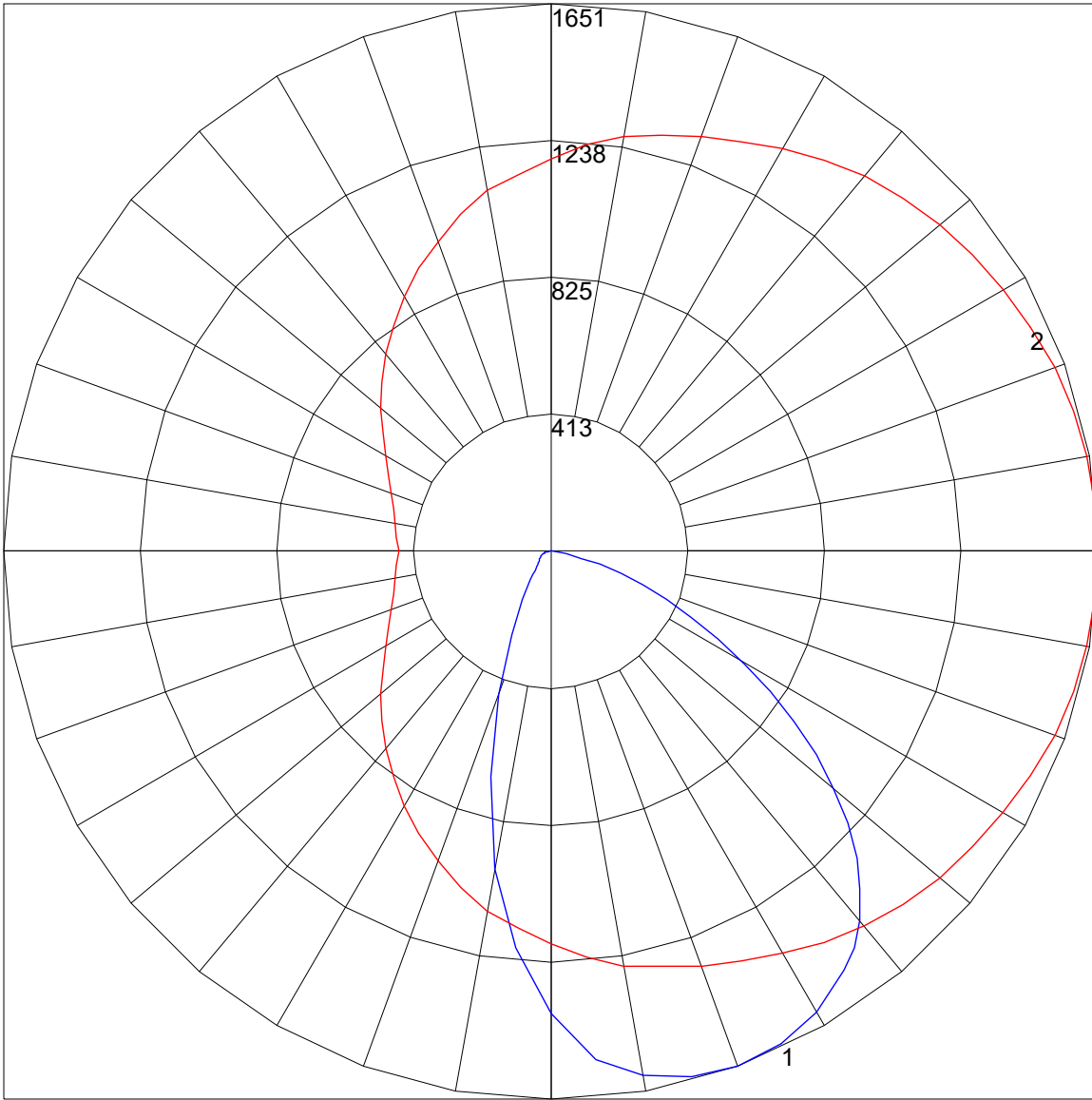
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	78	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	51	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 = 1650.862 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.)