

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	53	55	56	56
Total Lumens, 4' rail length (1219mm)	2578	2659	2713	2741
Lumens per foot (305mm)	644	665	678	685
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_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-359-BB-AL
[LUMINAIRE] WingRail LED, 48", 3500K, 90 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	2713
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	55
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	56322	36717	17564
55	54588	30341	12053
65	47875	24062	8433
75	38508	18940	6031
85	26707	15634	3119

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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	1347.936	1347.936	1347.936	1347.936	1347.936	1347.936	1347.936	1347.936	1347.936	1347.936
5	1472.899	1472.405	1471.132	1468.586	1465.242	1461.100	1455.362	1449.472	1442.309	1434.823
10	1589.160	1588.362	1584.847	1579.755	1571.794	1561.914	1550.780	1537.385	1521.938	1505.218
15	1673.558	1671.487	1665.445	1658.111	1644.412	1629.440	1611.124	1589.635	1566.056	1541.375
20	1732.173	1728.506	1720.393	1707.169	1688.226	1665.920	1639.643	1609.376	1575.784	1540.729
25	1762.117	1757.500	1746.024	1727.879	1701.602	1670.689	1635.178	1594.252	1549.336	1503.470
30	1764.036	1758.773	1742.205	1717.847	1683.115	1642.037	1595.848	1542.496	1485.800	1427.812
35	1734.719	1726.606	1706.694	1674.527	1630.238	1578.957	1520.988	1454.887	1387.532	1316.966
40	1669.416	1659.555	1634.703	1595.050	1543.446	1477.345	1407.121	1332.090	1255.178	1179.995
45	1564.308	1554.428	1523.059	1477.345	1416.982	1343.889	1265.210	1180.641	1097.497	1019.787
50	1416.507	1405.525	1373.187	1323.331	1257.078	1179.045	1097.345	1011.978	928.682	850.478
55	1229.851	1219.173	1187.006	1136.846	1070.745	995.087	916.731	835.677	756.352	683.563
60	1017.070	1005.917	976.467	930.905	870.865	802.693	733.267	662.378	595.973	533.691
65	794.732	785.346	760.646	721.164	671.783	615.714	562.210	504.070	448.970	399.437
70	584.820	577.809	558.866	530.043	493.088	451.839	409.146	366.472	323.779	286.520
75	391.476	387.182	374.908	356.117	331.759	304.513	276.013	247.342	218.044	192.546
80	226.480	224.238	217.873	208.164	195.111	180.443	164.369	147.801	130.435	115.159
85	91.428	90.934	89.357	86.963	83.296	78.831	73.416	67.374	60.211	53.523
90	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>
0	1347.936	1347.936	1347.936	1347.936	1347.936	1347.936	1347.936	1347.936	1347.936	1347.936
5	1425.912	1416.830	1407.121	1396.120	1385.613	1374.631	1362.034	1350.577	1338.797	1326.998
10	1487.548	1468.586	1446.603	1425.114	1402.181	1378.925	1354.871	1329.240	1303.115	1278.111
15	1513.654	1484.679	1452.987	1420.174	1387.209	1352.648	1317.612	1280.182	1241.479	1204.524
20	1504.097	1463.817	1422.397	1379.077	1337.353	1292.760	1248.319	1202.776	1153.091	1105.306
25	1455.533	1404.404	1353.275	1300.569	1250.086	1197.513	1145.909	1093.678	1036.032	981.236
30	1368.247	1306.934	1246.894	1187.177	1130.785	1073.291	1017.716	961.495	900.809	841.719
35	1249.117	1180.470	1114.863	1051.308	992.864	934.420	876.432	819.907	760.171	701.081
40	1105.154	1033.467	966.416	902.234	843.163	785.346	729.277	675.279	623.371	566.200
45	943.331	872.784	805.410	742.976	687.078	637.222	584.193	535.762	487.825	436.544
50	775.143	708.263	640.414	591.356	541.348	495.482	451.364	410.913	369.493	327.921
55	617.481	556.149	501.999	453.758	410.742	371.089	335.407	303.240	271.548	240.179
60	476.691	421.268	375.706	336.528	302.917	271.225	244.625	220.267	196.688	174.401
65	354.046	311.676	274.740	242.725	216.600	193.667	173.926	156.237	139.992	124.545
70	253.080	222.661	195.586	171.380	151.468	134.748	120.726	107.825	96.197	85.842
75	169.613	148.751	130.606	114.361	100.339	87.761	77.406	68.970	61.313	54.948
80	101.289	88.236	76.931	67.051	58.444	50.331	42.845	37.278	32.490	28.994
85	46.816	40.451	34.884	29.792	25.479	21.337	17.366	13.376	10.678	9.709
90	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>
0	1347.936	1347.936	1347.936	1347.936	1347.936	1347.936	1347.936	1347.936	1347.936	1347.936
5	1314.743	1303.115	1290.537	1279.061	1267.433	1257.078	1247.046	1237.014	1228.255	1219.971
10	1251.986	1225.386	1198.634	1172.680	1145.909	1121.551	1098.143	1074.564	1054.025	1035.234
15	1165.669	1124.743	1083.798	1043.518	1002.573	963.870	927.238	889.333	857.489	827.697
20	1055.621	1003.219	949.867	897.788	842.992	792.357	744.401	696.939	656.488	619.856
25	924.217	862.752	800.622	740.107	677.198	620.825	568.100	517.294	475.247	438.786
30	780.235	714.628	648.698	585.295	521.113	465.063	415.055	368.543	331.911	301.169
35	633.251	575.263	509.485	448.172	388.607	338.599	296.400	258.495	229.653	206.093

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CANDELA TABULATION - (Cont.)

40	506.141	445.151	387.657	333.659	283.328	242.554	209.114	181.564	162.773	143.982
45	386.061	334.780	287.470	244.321	206.093	174.401	150.499	130.606	115.938	104.329
50	287.945	247.190	209.589	177.422	155.287	128.839	111.169	97.470	87.438	79.800
55	210.387	181.564	156.237	131.879	112.119	96.520	84.721	75.335	68.324	62.909
60	155.287	132.981	114.190	98.268	84.569	74.214	65.778	59.090	53.998	49.856
65	109.896	95.722	83.296	72.941	63.707	56.373	50.331	45.068	41.401	38.551
70	76.285	66.899	59.090	52.231	45.714	40.299	35.834	32.338	29.944	28.196
75	48.735	43.472	38.703	33.763	28.994	25.327	22.781	21.033	19.741	18.962
80	26.125	23.408	20.235	17.043	14.649	13.053	12.103	11.476	11.153	10.982
85	9.234	7.638	6.365	5.415	5.092	4.940	4.940	4.788	4.617	4.617
90	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>150</u>	<u>155</u>	<u>160</u>	<u>165</u>	<u>170</u>	<u>175</u>	<u>180</u>
0	1347.936	1347.936	1347.936	1347.936	1347.936	1347.936	1347.936
5	1213.131	1206.918	1201.655	1197.209	1194.644	1193.219	1192.269
10	1018.343	1003.846	991.268	981.559	974.548	970.254	968.981
15	801.420	778.810	758.898	744.097	733.096	726.883	724.014
20	588.487	561.564	538.631	521.759	509.979	502.322	500.099
25	408.044	382.869	362.330	346.883	336.205	329.688	327.769
30	276.165	255.949	240.008	228.380	220.590	215.650	214.377
35	187.454	173.280	163.571	154.964	149.549	146.357	145.255
40	131.081	121.353	114.038	108.946	105.602	103.531	102.885
45	95.722	89.509	84.892	81.548	79.477	78.204	77.729
50	73.891	69.597	66.424	64.182	62.757	61.959	61.788
55	58.938	56.221	54.150	52.554	51.452	50.958	50.654
60	46.987	44.916	43.472	42.370	41.724	41.249	41.097
65	36.480	35.207	34.238	33.440	33.136	32.813	32.813
70	27.075	26.277	25.802	25.327	25.156	25.156	25.156
75	18.468	18.164	17.993	17.841	17.841	17.841	17.841
80	10.982	10.982	10.982	10.982	10.982	11.153	11.153
85	4.294	3.819	3.344	3.021	2.717	2.546	2.546
90	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	468.21	N.A.	17.30
0-30	940.59	N.A.	34.70
0-40	1453.02	N.A.	53.50
0-60	2301.00	N.A.	84.80
0-80	2678.42	N.A.	98.70
0-90	2713.42	N.A.	100.00
10-90	2587.37	N.A.	95.40
20-40	984.81	N.A.	36.30
20-50	1458.47	N.A.	53.80
40-70	1096.37	N.A.	40.40
60-80	377.42	N.A.	13.90
70-80	129.03	N.A.	4.80
80-90	35.00	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	2713.42	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	126.05
10-20	342.16
20-30	472.38
30-40	512.43
40-50	473.67
50-60	374.32
60-70	248.38
70-80	129.03
80-90	35.00
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

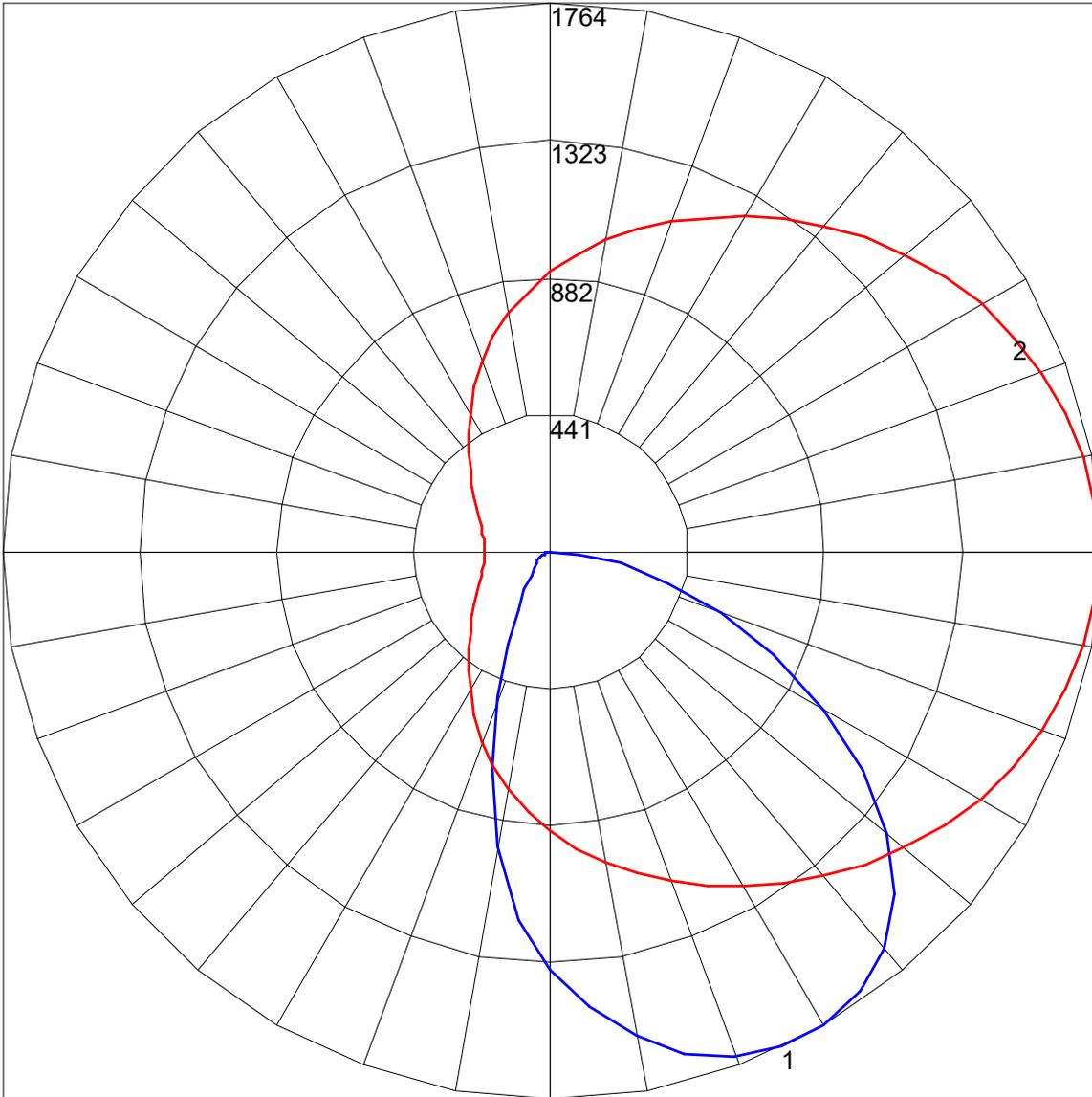
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	42	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 = 1764.036 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.)