

**IES Report**

**WingRail® | 107 | White Baffle with EdgeSoft™ | 90 CRI | SO**

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

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	80	82	84	85
Total Lumens, 4' rail length (1219mm)	1909	1969	2009	2049
Lumens per foot (305mm)	477	492	502	512
Input Power (W), 4' rail length (1219mm)	24.1	24.1	24.1	24.1
Watts per foot (305mm)	6.1	6.1	6.1	6.1
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\_SO\_359\_WB.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] L071704218 (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-SO-359-WB  
 [LUMINAIRE] WingRail LED, 48", 3500K, 90 CRI, zipper board,  
 [MORE] white baffle, standard output  
 [TEST PROCEDURE] IESNA:LM-79-08

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2009
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	83
Total Luminaire Watts	24.12
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.84
Spacing Criterion (90-270)	1.22
Spacing Criterion (Diagonal)	1.32
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	28944	22859	13184
55	30331	20948	10758
65	29096	17591	8510
75	26024	15189	6482
85	26278	15300	4029

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>	780.739	780.739	780.739	780.739	780.739	780.739	780.739	780.739	780.739	780.739
<b>5</b>	860.186	859.931	859.166	857.983	856.035	853.924	851.292	847.906	843.928	839.603
<b>10</b>	927.608	927.180	926.170	924.222	921.254	917.786	913.543	907.698	901.435	894.152
<b>15</b>	974.355	973.855	972.662	970.632	967.246	962.839	957.586	950.477	942.347	932.606
<b>20</b>	1003.833	1003.323	1002.221	1000.192	996.550	991.471	985.034	976.477	965.552	953.098
<b>25</b>	1018.062	1017.644	1016.450	1014.084	1009.933	1003.751	995.367	984.096	969.530	952.843
<b>30</b>	1019.419	1018.827	1017.297	1014.339	1008.831	1000.273	988.584	972.662	952.935	930.485
<b>35</b>	1009.086	1008.576	1006.210	1001.548	993.164	980.455	963.686	941.501	915.236	887.033
<b>40</b>	986.218	985.116	981.475	974.192	961.483	943.102	919.816	890.766	858.575	825.547
<b>45</b>	947.590	945.897	940.052	929.220	911.258	886.278	856.545	821.732	784.635	748.384
<b>50</b>	888.981	886.360	878.312	863.491	840.286	809.707	774.731	735.685	695.956	657.757
<b>55</b>	805.474	802.505	792.173	773.456	747.119	712.980	676.056	635.654	594.915	556.298
<b>60</b>	696.385	693.080	682.319	662.929	634.889	600.841	564.509	525.545	487.091	450.840
<b>65</b>	569.333	565.784	555.196	537.234	511.061	481.338	448.984	414.589	380.715	344.209
<b>70</b>	436.366	433.316	424.585	409.255	388.171	364.283	337.691	311.600	284.580	259.763
<b>75</b>	311.855	309.652	302.960	291.955	276.787	259.345	240.292	220.555	200.053	182.019
<b>80</b>	199.379	198.023	193.790	187.099	177.613	166.597	154.234	141.025	127.806	115.780
<b>85</b>	106.039	105.366	103.499	100.368	95.707	90.117	83.507	76.480	68.779	61.741
<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

	<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>	780.739	780.739	780.739	780.739	780.739	780.739	780.739	780.739	780.739	780.739
<b>5</b>	835.033	829.862	824.446	818.519	812.420	805.392	798.354	791.326	783.533	775.486
<b>10</b>	885.595	876.027	865.949	854.770	841.888	828.260	813.858	798.782	782.350	765.153
<b>15</b>	921.254	908.126	893.816	877.639	859.768	840.704	819.111	796.406	771.681	744.488
<b>20</b>	938.023	920.836	901.945	881.280	857.902	833.422	805.555	776.506	744.233	708.920
<b>25</b>	932.861	910.411	886.533	860.951	832.575	803.015	770.498	736.358	698.843	657.676
<b>30</b>	904.658	876.874	848.334	818.519	786.583	753.892	718.233	681.727	640.478	595.588
<b>35</b>	856.208	824.109	792.346	760.073	726.281	692.488	655.901	617.865	575.688	529.360
<b>40</b>	790.908	756.014	722.466	688.337	655.054	620.915	584.327	546.893	505.818	461.346
<b>45</b>	711.124	674.873	640.315	605.584	572.302	538.846	504.288	469.394	431.623	391.303
<b>50</b>	619.222	583.052	547.148	513.437	481.675	450.758	419.587	389.018	356.490	322.952
<b>55</b>	518.344	483.368	448.647	418.241	389.864	363.100	336.926	311.090	285.682	258.835
<b>60</b>	415.864	383.591	354.970	330.062	305.500	283.570	262.313	242.576	222.329	202.001
<b>65</b>	322.024	294.158	270.698	249.778	230.377	212.588	196.666	181.591	166.515	151.694
<b>70</b>	237.242	216.148	197.686	181.172	166.852	153.388	141.280	129.846	118.157	107.651
<b>75</b>	165.495	150.164	136.619	124.420	113.914	103.836	94.860	86.057	77.673	69.962
<b>80</b>	104.601	94.187	84.864	76.398	68.942	61.832	55.141	49.123	43.115	37.862
<b>85</b>	54.968	48.613	42.769	37.271	32.609	28.121	23.888	19.992	16.259	13.301
<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

	<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>	780.739	780.739	780.739	780.739	780.739	780.739	780.739	780.739	780.739	780.739
<b>5</b>	767.693	759.992	751.862	744.151	736.195	728.994	721.874	715.438	709.430	704.086
<b>10</b>	747.283	729.412	710.950	693.080	674.444	657.257	640.570	624.648	610.419	597.037
<b>15</b>	717.723	690.203	661.235	632.859	604.401	576.708	550.790	527.411	506.573	487.264
<b>20</b>	674.281	637.857	599.831	563.234	527.075	493.282	463.039	435.265	411.713	390.793
<b>25</b>	616.345	574.076	530.288	489.549	450.340	414.681	384.530	357.592	335.906	317.108
<b>30</b>	551.126	505.900	460.326	418.996	380.888	348.024	321.178	298.136	279.755	264.343
<b>35</b>	484.214	438.906	394.862	356.327	322.697	294.158	271.708	252.736	237.997	225.634

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**CANDELA TABULATION - (Cont.)**

<b>40</b>	417.986	375.799	336.161	302.450	273.656	250.114	231.734	216.230	204.286	194.126
<b>45</b>	352.849	316.598	282.724	254.857	231.142	212.333	196.330	183.967	173.879	165.332
<b>50</b>	291.190	261.293	234.100	211.579	192.352	177.021	164.485	153.561	144.667	137.037
<b>55</b>	234.019	210.559	189.210	171.003	156.519	143.902	133.232	123.400	115.617	108.926
<b>60</b>	183.029	165.495	149.073	134.752	122.900	112.220	102.826	94.697	88.169	83.681
<b>65</b>	137.292	124.083	111.629	100.786	90.372	82.753	74.195	67.677	62.679	58.528
<b>70</b>	97.318	87.322	78.173	69.452	60.812	53.866	48.277	43.615	40.229	37.434
<b>75</b>	62.587	55.478	47.858	40.820	34.639	30.070	26.510	23.715	21.512	19.900
<b>80</b>	32.946	27.438	21.940	17.615	14.402	12.107	10.333	8.976	7.874	7.120
<b>85</b>	10.078	6.946	4.825	3.478	2.540	1.693	0.673	0.337	0.173	0.173
<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**

	<u>150</u>	<u>155</u>	<u>160</u>	<u>165</u>	<u>170</u>	<u>175</u>	<u>180</u>
<b>0</b>	780.739	780.739	780.739	780.739	780.739	780.739	780.739
<b>5</b>	699.098	695.028	691.468	688.673	686.725	685.460	684.859
<b>10</b>	585.092	575.096	566.875	560.021	555.278	552.310	551.208
<b>15</b>	470.495	456.521	445.424	436.366	430.093	426.197	425.014
<b>20</b>	373.096	359.122	347.851	339.211	333.285	329.725	328.624
<b>25</b>	301.859	289.751	280.520	272.983	268.148	265.108	264.251
<b>30</b>	252.062	242.403	234.865	228.939	225.043	222.666	221.911
<b>35</b>	215.638	207.937	201.838	196.748	193.535	191.668	190.913
<b>40</b>	185.742	179.224	174.053	169.820	166.943	165.250	164.485
<b>45</b>	158.131	152.459	147.716	143.820	141.280	139.669	139.240
<b>50</b>	130.601	125.603	121.462	118.238	116.035	114.597	114.342
<b>55</b>	103.581	99.348	95.962	93.503	91.647	90.627	90.290
<b>60</b>	78.683	75.378	72.838	70.890	69.707	68.860	68.605
<b>65</b>	55.559	53.193	51.408	49.970	49.042	48.450	48.277
<b>70</b>	35.323	33.793	32.436	31.426	30.916	30.488	30.488
<b>75</b>	18.635	17.615	16.850	16.177	15.841	15.759	15.759
<b>80</b>	6.436	5.845	5.416	5.080	4.916	4.825	4.743
<b>85</b>	0.173	0.173	0.173	0.173	0.173	0.173	0.173
<b>90</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	280.28	N.A.	14.00
0-30	585.63	N.A.	29.10
0-40	947.27	N.A.	47.20
0-60	1630.02	N.A.	81.10
0-80	1972.65	N.A.	98.20
0-90	2009.03	N.A.	100.00
10-90	1935.38	N.A.	96.30
20-40	667.00	N.A.	33.20
20-50	1034.08	N.A.	51.50
40-70	905.13	N.A.	45.10
60-80	342.63	N.A.	17.10
70-80	120.25	N.A.	6.00
80-90	36.38	N.A.	1.80
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	2009.03	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	73.65
10-20	206.62
20-30	305.35
30-40	361.65
40-50	367.08
50-60	315.67
60-70	222.37
70-80	120.25
80-90	36.38
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

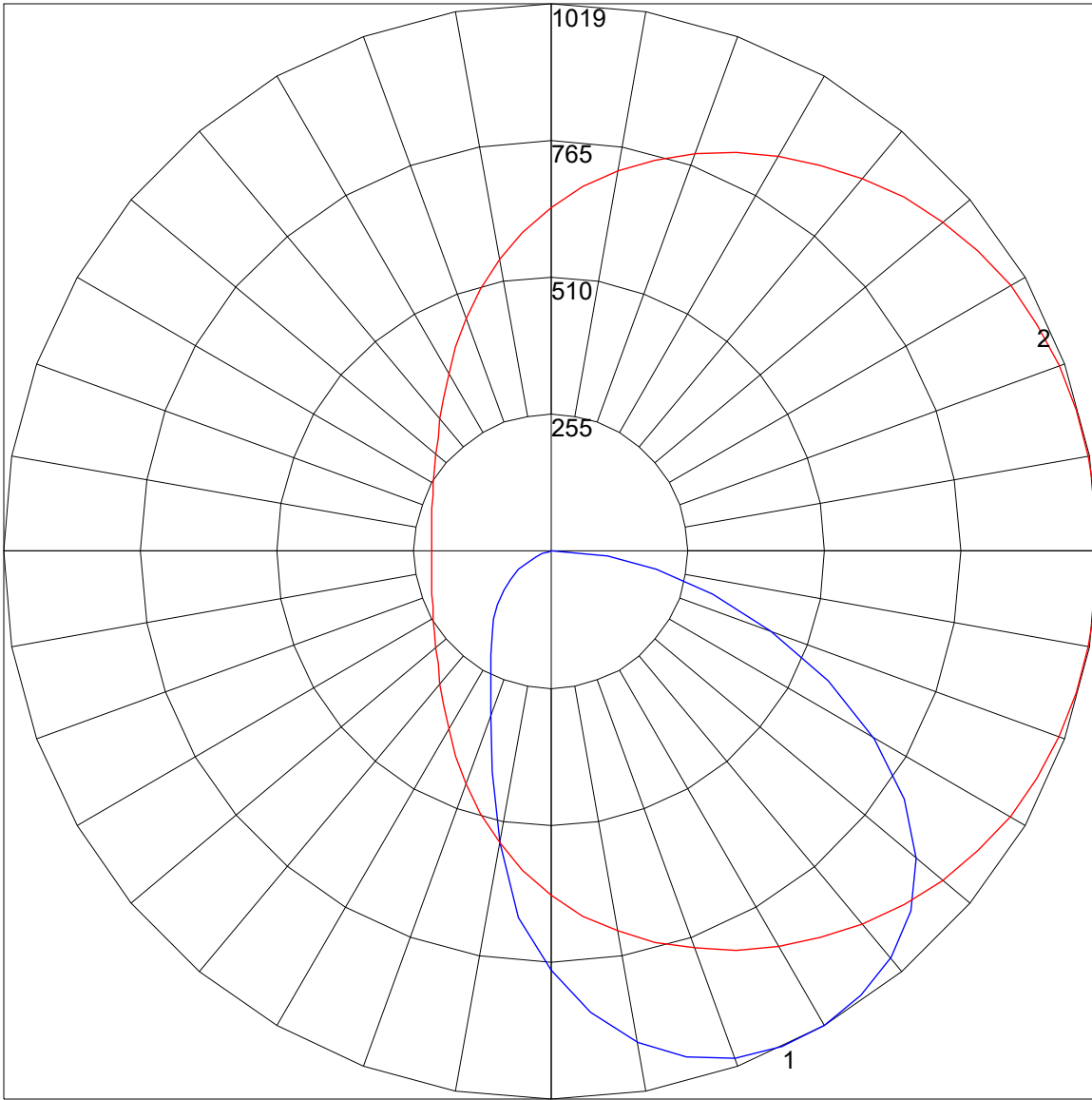
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	119	116	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	97		106	102	98	95		98	95	92	94	91	89	90	88	86	84
2	99	91	85	79		97	90	83	78		86	81	76	83	78	75	80	76	73	71
3	91	81	73	66		88	79	72	66		76	70	64	73	68	63	71	66	62	60
4	83	72	63	56		81	70	62	56		68	61	55	65	59	54	63	58	54	52
5	77	64	55	49		75	63	55	48		61	54	48	59	52	47	57	51	47	45
6	71	58	49	43		69	57	49	42		55	48	42	53	47	42	52	46	41	39
7	66	53	44	38		64	52	43	38		50	43	37	49	42	37	47	41	37	35
8	61	48	40	34		60	47	39	34		46	39	33	45	38	33	44	38	33	31
9	57	44	36	30		56	43	36	30		42	35	30	41	35	30	40	34	30	28
10	54	41	33	28		53	40	33	28		39	32	27	38	32	27	37	31	27	26

POLAR GRAPH



Maximum Candela = 1019.419 Located At Horizontal Angle = 0, Vertical Angle = 30  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (30) (Through Max. Cd.)