

IES Report

WingRail® | 107 | Black Baffle with EdgeSoft™ | 90 CRI | LO

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

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	50	51	52	53
Total Lumens, 4' rail length (1219mm)	678	700	714	721
Lumens per foot (305mm)	170	175	179	180
Input Power (W), 4' rail length (1219mm)	13.8	13.8	13.8	13.8
Watts per foot (305mm)	3.5	3.5	3.5	3.5
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_LO_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-LO-359-BB-AL
[LUMINAIRE] WingRail LED, 48", 3500K, 90 CRI, zipper board, black baffle,
[MORE] low 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	714
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	52
Total Luminaire Watts	13.82
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	14822	9662	4622
55	14365	7984	3172
65	12599	6332	2219
75	10134	4984	1587
85	7028	4114	821

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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	354.720	354.720	354.720	354.720	354.720	354.720	354.720	354.720	354.720	354.720
5	387.605	387.475	387.140	386.470	385.590	384.500	382.990	381.440	379.555	377.585
10	418.200	417.990	417.065	415.725	413.630	411.030	408.100	404.575	400.510	396.110
15	440.410	439.865	438.275	436.345	432.740	428.800	423.980	418.325	412.120	405.625
20	455.835	454.870	452.735	449.255	444.270	438.400	431.485	423.520	414.680	405.455
25	463.715	462.500	459.480	454.705	447.790	439.655	430.310	419.540	407.720	395.650
30	464.220	462.835	458.475	452.065	442.925	432.115	419.960	405.920	391.000	375.740
35	456.505	454.370	449.130	440.665	429.010	415.515	400.260	382.865	365.140	346.570
40	439.320	436.725	430.185	419.750	406.170	388.775	370.295	350.550	330.310	310.525
45	411.660	409.060	400.805	388.775	372.890	353.655	332.950	310.695	288.815	268.365
50	372.765	369.875	361.365	348.245	330.810	310.275	288.775	266.310	244.390	223.810
55	323.645	320.835	312.370	299.170	281.775	261.865	241.245	219.915	199.040	179.885
60	267.650	264.715	256.965	244.975	229.175	211.235	192.965	174.310	156.835	140.445
65	209.140	206.670	200.170	189.780	176.785	162.030	147.950	132.650	118.150	105.115
70	153.900	152.055	147.070	139.485	129.760	118.905	107.670	96.440	85.205	75.400
75	103.020	101.890	98.660	93.715	87.305	80.135	72.635	65.090	57.380	50.670
80	59.600	59.010	57.335	54.780	51.345	47.485	43.255	38.895	34.325	30.305
85	24.060	23.930	23.515	22.885	21.920	20.745	19.320	17.730	15.845	14.085
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	354.720	354.720	354.720	354.720	354.720	354.720	354.720	354.720	354.720	354.720
5	375.240	372.850	370.295	367.400	364.635	361.745	358.430	355.415	352.315	349.210
10	391.460	386.470	380.685	375.030	368.995	362.875	356.545	349.800	342.925	336.345
15	398.330	390.705	382.365	373.730	365.055	355.960	346.740	336.890	326.705	316.980
20	395.815	385.215	374.315	362.915	351.935	340.200	328.505	316.520	303.445	290.870
25	383.035	369.580	356.125	342.255	328.970	315.135	301.555	287.810	272.640	258.220
30	360.065	343.930	328.130	312.415	297.575	282.445	267.820	253.025	237.055	221.505
35	328.715	310.650	293.385	276.660	261.280	245.900	230.640	215.765	200.045	184.495
40	290.830	271.965	254.320	237.430	221.885	206.670	191.915	177.705	164.045	149.000
45	248.245	229.680	211.950	195.520	180.810	167.690	153.735	140.990	128.375	114.880
50	203.985	186.385	168.530	155.620	142.460	130.390	118.780	108.135	97.235	86.295
55	162.495	146.355	132.105	119.410	108.090	97.655	88.265	79.800	71.460	63.205
60	125.445	110.860	98.870	88.560	79.715	71.375	64.375	57.965	51.760	45.895
65	93.170	82.020	72.300	63.875	57.000	50.965	45.770	41.115	36.840	32.775
70	66.600	58.595	51.470	45.100	39.860	35.460	31.770	28.375	25.315	22.590
75	44.635	39.145	34.370	30.095	26.405	23.095	20.370	18.150	16.135	14.460
80	26.655	23.220	20.245	17.645	15.380	13.245	11.275	9.810	8.550	7.630
85	12.320	10.645	9.180	7.840	6.705	5.615	4.570	3.520	2.810	2.555
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	354.720	354.720	354.720	354.720	354.720	354.720	354.720	354.720	354.720	354.720
5	345.985	342.925	339.615	336.595	333.535	330.810	328.170	325.530	323.225	321.045
10	329.470	322.470	315.430	308.600	301.555	295.145	288.985	282.780	277.375	272.430
15	306.755	295.985	285.210	274.610	263.835	253.650	244.010	234.035	225.655	217.815
20	277.795	264.005	249.965	236.260	221.840	208.515	195.895	183.405	172.760	163.120
25	243.215	227.040	210.690	194.765	178.210	163.375	149.500	136.130	125.065	115.470
30	205.325	188.060	170.710	154.025	137.135	122.385	109.225	96.985	87.345	79.255
35	166.645	151.385	134.075	117.940	102.265	89.105	78.000	68.025	60.435	54.235

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CANDELA TABULATION - (Cont.)

40	133.195	117.145	102.015	87.805	74.560	63.830	55.030	47.780	42.835	37.890
45	101.595	88.100	75.650	64.295	54.235	45.895	39.605	34.370	30.510	27.455
50	75.775	65.050	55.155	46.690	40.865	33.905	29.255	25.650	23.010	21.000
55	55.365	47.780	41.115	34.705	29.505	25.400	22.295	19.825	17.980	16.555
60	40.865	34.995	30.050	25.860	22.255	19.530	17.310	15.550	14.210	13.120
65	28.920	25.190	21.920	19.195	16.765	14.835	13.245	11.860	10.895	10.145
70	20.075	17.605	15.550	13.745	12.030	10.605	9.430	8.510	7.880	7.420
75	12.825	11.440	10.185	8.885	7.630	6.665	5.995	5.535	5.195	4.990
80	6.875	6.160	5.325	4.485	3.855	3.435	3.185	3.020	2.935	2.890
85	2.430	2.010	1.675	1.425	1.340	1.300	1.300	1.260	1.215	1.215
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>150</u>	<u>155</u>	<u>160</u>	<u>165</u>	<u>170</u>	<u>175</u>	<u>180</u>
0	354.720	354.720	354.720	354.720	354.720	354.720	354.720
5	319.245	317.610	316.225	315.055	314.380	314.005	313.755
10	267.985	264.170	260.860	258.305	256.460	255.330	254.995
15	210.900	204.950	199.710	195.815	192.920	191.285	190.530
20	154.865	147.780	141.745	137.305	134.205	132.190	131.605
25	107.380	100.755	95.350	91.285	88.475	86.760	86.255
30	72.675	67.355	63.160	60.100	58.050	56.750	56.415
35	49.330	45.600	43.045	40.780	39.355	38.515	38.225
40	34.495	31.935	30.010	28.670	27.790	27.245	27.075
45	25.190	23.555	22.340	21.460	20.915	20.580	20.455
50	19.445	18.315	17.480	16.890	16.515	16.305	16.260
55	15.510	14.795	14.250	13.830	13.540	13.410	13.330
60	12.365	11.820	11.440	11.150	10.980	10.855	10.815
65	9.600	9.265	9.010	8.800	8.720	8.635	8.635
70	7.125	6.915	6.790	6.665	6.620	6.620	6.620
75	4.860	4.780	4.735	4.695	4.695	4.695	4.695
80	2.890	2.890	2.890	2.890	2.890	2.935	2.935
85	1.130	1.005	0.880	0.795	0.715	0.670	0.670
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	123.21	N.A.	17.30
0-30	247.52	N.A.	34.70
0-40	382.37	N.A.	53.50
0-60	605.53	N.A.	84.80
0-80	704.85	N.A.	98.70
0-90	714.06	N.A.	100.00
10-90	680.89	N.A.	95.40
20-40	259.16	N.A.	36.30
20-50	383.81	N.A.	53.80
40-70	288.52	N.A.	40.40
60-80	99.32	N.A.	13.90
70-80	33.96	N.A.	4.80
80-90	9.21	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	714.06	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	33.17
10-20	90.04
20-30	124.31
30-40	134.85
40-50	124.65
50-60	98.50
60-70	65.36
70-80	33.96
80-90	9.21
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

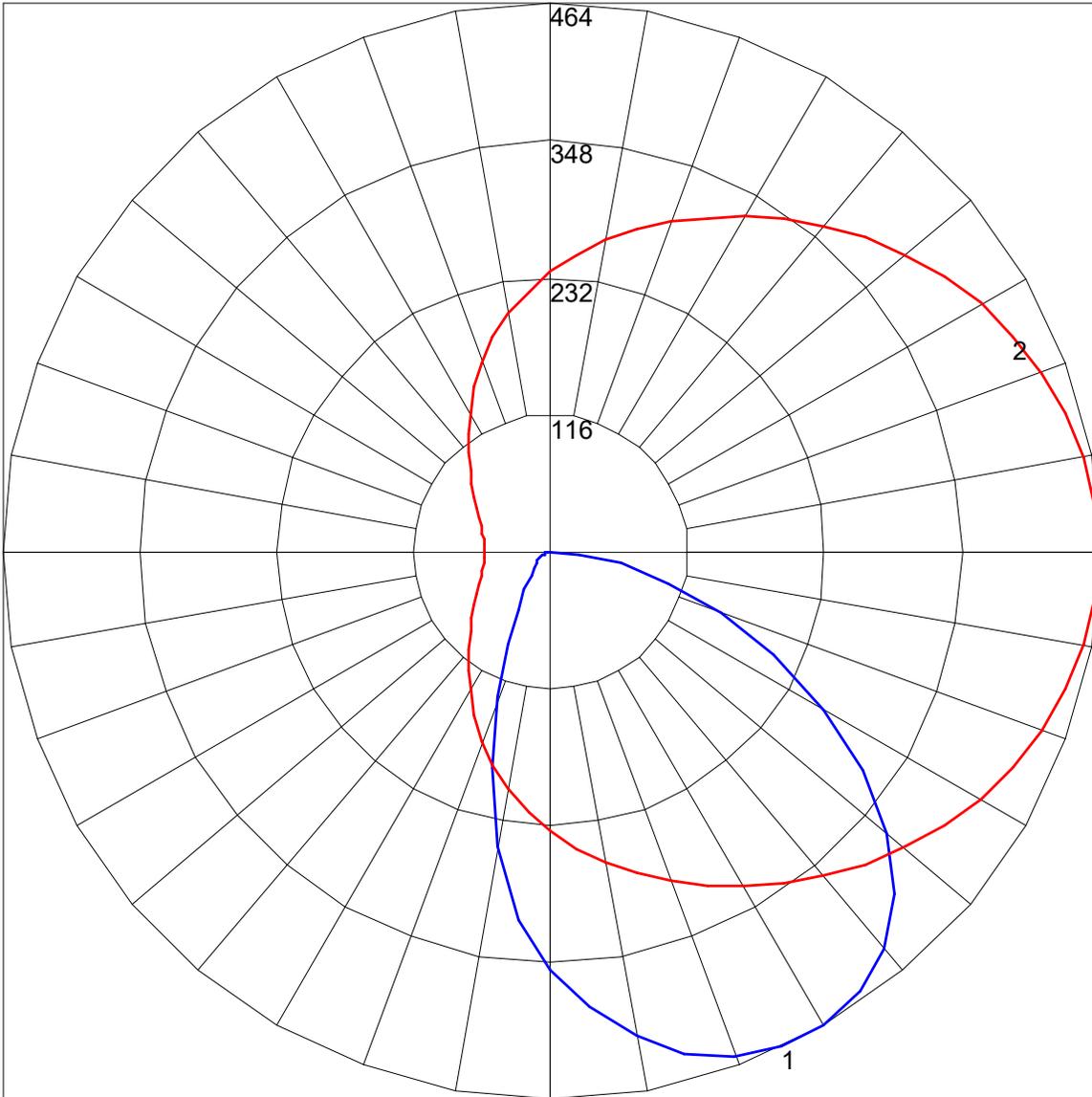
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	0
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86	0
2	101	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76	74	0
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	73	69	66	63	0
4	86	74	66	60	83	73	66	60	71	64	59	68	63	58	66	61	57	55	0
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49	0
6	73	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43	0
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39	0
8	64	51	43	38	62	50	43	37	49	42	37	48	42	37	47	41	37	35	0
9	60	47	39	34	59	47	39	34	46	39	34	44	38	34	43	38	34	32	0
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	41	35	31	29	0

POLAR GRAPH



Maximum Candela = 464.22 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.)