

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	40	41	42	43
Total Lumens, 4' rail length (1219mm)	587	606	618	631
Lumens per foot (305mm)	147	151	155	158
Input Power (W), 4' rail length (1219mm)	15.0	15.0	15.0	15.0
Watts per foot (305mm)	3.8	3.8	3.8	3.8
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_LO_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-LO-359-BB
 [LUMINAIRE] WingRail LED, 48", 3500K, 90 CRI, zipper board,
 [MORE] black baffle, low output
 [TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	618
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	41
Total Luminaire Watts	14.95
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	10491	7064	3788
55	8892	5281	2370
65	6320	3581	1520
75	3356	2133	1019
85	18	264	502

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	366.460	366.460	366.460	366.460	366.460	366.460	366.460	366.460	366.460	366.460
5.0	404.619	400.671	399.779	399.401	399.126	397.137	395.663	393.842	391.991	389.895
10.0	421.775	417.894	416.731	415.803	414.808	411.891	409.387	406.470	403.073	399.605
15.0	430.833	428.395	426.921	425.478	423.693	419.817	415.869	411.274	406.266	401.115
20.0	433.990	433.714	431.378	429.461	425.513	420.332	414.599	408.632	402.319	395.214
25.0	430.899	432.444	429.323	426.334	421.913	415.048	407.189	397.820	388.008	378.267
30.0	421.913	424.723	420.056	416.491	409.765	400.636	390.104	378.094	366.119	353.114
35.0	405.644	409.076	403.624	397.892	387.768	376.033	362.513	349.477	333.795	318.765
37.5	395.969	396.005	390.242	383.755	374.284	361.794	347.213	330.194	313.206	297.631
40.0	380.939	381.766	375.656	368.689	357.367	343.230	327.583	310.978	293.444	277.863
42.5	363.028	364.538	357.847	349.885	336.574	321.443	305.143	289.945	270.968	255.459
45.0	343.470	342.990	336.059	327.481	315.302	300.579	283.937	266.781	246.916	231.270
47.5	319.316	319.382	313.140	303.975	289.292	275.119	258.550	241.220	224.441	208.692
50.0	293.102	292.485	286.273	276.629	264.277	250.242	233.947	215.791	198.808	183.539
52.5	265.241	263.762	259.060	249.798	237.068	223.650	208.003	192.734	176.404	161.889
55.0	236.140	234.804	230.035	221.524	208.621	195.891	183.365	169.060	153.515	140.235
57.5	206.703	205.020	200.420	192.494	182.820	171.013	158.732	144.422	131.111	118.963
60.0	177.602	175.578	172.319	165.730	156.499	146.171	135.298	124.006	112.236	101.566
62.5	150.016	147.854	145.008	138.796	131.315	122.497	114.230	104.723	93.432	84.339
65.0	123.665	121.982	120.334	115.668	108.808	101.770	93.947	85.920	78.096	70.069
67.5	99.506	98.308	97.073	92.713	87.669	82.319	76.209	69.207	62.827	56.855
70.0	77.408	76.520	75.281	72.400	69.003	64.612	60.119	54.560	49.409	44.640
72.5	57.783	57.441	56.069	54.351	51.918	48.827	45.533	42.070	38.428	34.762
75.0	40.213	40.045	39.153	38.398	36.817	35.032	32.905	30.335	28.035	25.561
77.5	24.913	24.913	24.567	24.159	23.746	22.853	21.721	20.451	18.977	17.498
80.0	12.148	12.112	12.286	12.316	12.526	12.556	12.388	12.077	11.562	10.878
85.0	0.071	0.071	0.071	0.138	0.173	0.138	0.204	0.342	0.688	1.066
90.0	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>
0.0	366.460	366.460	366.460	366.460	366.460	366.460	366.460	366.460	366.460	366.460
5.0	387.906	384.474	380.256	376.273	373.600	371.744	369.959	365.155	361.452	357.954
10.0	396.071	391.955	385.366	379.124	374.972	369.821	366.119	358.673	352.665	346.249
15.0	396.005	389.829	381.934	374.110	367.389	359.978	354.210	345.596	336.886	327.655
20.0	387.733	377.992	368.006	358.020	349.717	340.726	333.418	322.917	310.804	299.620
25.0	367.557	356.990	344.979	333.622	323.192	311.906	303.083	291.317	278.929	265.996
30.0	340.073	327.619	312.763	299.860	287.711	275.808	266.475	254.291	241.184	227.598
35.0	304.047	289.190	275.155	261.635	248.630	236.482	226.532	214.766	200.629	187.175
37.5	282.499	268.464	254.327	240.807	227.837	215.659	206.530	195.447	182.682	167.652
40.0	262.390	246.570	232.708	219.019	206.565	194.830	184.742	173.828	161.099	148.471
42.5	239.674	223.926	210.717	197.334	185.048	173.553	163.776	153.790	142.774	129.877
45.0	215.965	201.486	188.654	175.374	163.674	152.143	143.601	134.298	124.006	112.307
47.5	193.938	177.740	165.454	153.036	142.091	132.962	124.108	115.877	105.065	94.875
50.0	169.539	156.468	144.595	133.304	122.221	114.469	105.820	98.649	90.586	80.840
52.5	148.747	135.430	124.486	114.398	104.963	96.589	89.250	82.967	75.658	67.769
55.0	128.194	115.806	105.891	97.206	88.939	81.187	74.939	69.691	62.929	56.340
57.5	108.186	98.343	89.388	81.804	73.909	68.386	63.102	58.436	52.979	46.905
60.0	91.785	82.696	74.975	67.973	61.970	56.686	52.158	48.139	43.646	38.638
62.5	76.107	68.830	62.449	56.753	51.433	46.838	43.202	39.805	36.373	32.288
65.0	62.761	56.686	51.331	46.629	42.274	38.806	35.409	32.665	29.748	26.765
67.5	51.229	46.221	41.657	37.913	34.384	31.467	28.891	26.663	24.536	21.894
70.0	40.351	36.475	33.181	30.335	27.759	25.531	23.404	21.649	19.870	18.115

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_107_WG_LO_359_BB.IES

CANDELA TABULATION - (Cont.)

72.5	31.192	28.274	25.806	23.608	21.787	20.074	18.426	16.983	15.682	14.413
75.0	23.332	21.272	19.247	17.773	16.366	15.167	14.137	13.178	12.214	11.184
77.5	16.090	14.754	13.622	12.592	11.837	11.082	10.261	9.644	9.058	8.440
80.0	10.123	9.435	8.782	8.267	7.788	7.410	6.967	6.589	6.247	5.936
85.0	1.443	1.545	1.714	1.851	1.989	1.989	2.060	2.060	2.025	2.127
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	366.460	366.460	366.460	366.460	366.460	366.460	366.460	366.460	366.460	366.460
5.0	355.720	350.778	346.249	342.715	340.282	338.395	335.820	332.836	330.159	327.068
10.0	340.450	332.867	324.564	317.842	311.421	306.138	299.344	292.414	286.273	279.582
15.0	319.245	308.234	296.667	286.100	276.048	265.960	254.393	243.071	232.744	223.033
20.0	289.945	276.114	261.156	246.947	232.677	217.954	204.056	189.302	175.991	162.644
25.0	253.332	237.481	219.361	202.307	185.120	168.545	150.083	134.645	121.054	107.743
30.0	213.425	195.616	176.093	157.325	138.934	121.604	104.244	90.413	78.785	69.074
35.0	173.691	155.989	134.334	115.739	98.889	83.829	70.339	59.604	50.918	43.681
37.5	152.521	135.191	117.249	99.440	83.620	69.518	56.069	47.114	40.147	35.001
40.0	133.543	117.076	98.685	82.452	68.320	56.069	46.252	38.602	33.114	28.616
42.5	115.979	100.710	83.655	69.074	56.717	46.288	37.332	31.329	26.902	23.434
45.0	99.266	85.476	70.375	57.717	46.905	38.020	30.880	26.010	22.476	19.762
47.5	83.038	71.986	58.813	47.935	38.877	31.569	26.112	22.200	19.354	17.019
50.0	70.686	60.287	48.863	39.872	32.426	26.525	21.757	18.666	16.539	14.928
52.5	58.951	50.026	40.591	33.216	27.071	22.374	18.906	16.300	14.617	13.382
55.0	48.929	41.585	34.450	27.999	23.057	19.354	16.575	14.550	13.209	12.112
57.5	40.764	34.762	29.131	24.225	19.900	16.713	14.515	12.939	11.939	11.154
60.0	33.624	28.825	24.704	20.487	17.294	14.928	13.107	11.873	10.980	10.292
62.5	28.376	24.536	20.726	17.605	15.132	13.209	11.633	10.776	10.123	9.506
65.0	23.710	20.655	17.911	15.269	13.280	11.597	10.567	9.848	9.267	8.854
67.5	19.492	17.192	14.994	13.107	11.597	10.429	9.537	8.854	8.405	8.063
70.0	16.126	14.413	12.730	11.358	10.123	9.093	8.405	7.823	7.512	7.206
72.5	13.005	11.771	10.567	9.404	8.476	7.788	7.273	6.865	6.589	6.380
75.0	10.292	9.333	8.476	7.686	7.033	6.518	6.140	5.763	5.559	5.493
77.5	7.823	7.206	6.655	6.074	5.595	5.115	4.840	4.738	4.631	4.600
80.0	5.559	5.217	4.870	4.493	4.151	3.876	3.708	3.672	3.672	3.636
85.0	2.060	1.989	1.923	1.887	1.821	1.923	1.989	1.989	2.091	2.162
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	366.460	366.460	366.460	366.460	366.460	366.460	366.460
5.0	324.324	322.575	320.999	319.556	318.184	317.087	315.267
10.0	274.089	269.632	265.684	262.594	259.748	258.172	255.219
15.0	214.180	206.667	200.251	194.657	190.918	188.618	185.359
20.0	150.945	142.157	134.920	129.463	125.450	122.670	120.370
25.0	98.032	90.071	83.997	79.162	76.107	74.287	72.675
30.0	61.695	55.830	51.469	48.006	46.012	44.849	44.125
35.0	38.362	34.792	32.252	30.401	29.305	28.580	27.999
37.5	31.156	28.310	26.387	24.740	23.914	23.470	23.128
40.0	25.357	23.297	21.787	20.726	20.176	19.732	19.421
42.5	21.206	19.558	18.528	17.636	17.192	16.952	16.743
45.0	18.187	16.952	16.024	15.407	14.958	14.856	14.688
47.5	15.749	14.754	14.137	13.693	13.382	13.280	13.178
50.0	13.933	13.209	12.730	12.352	12.179	12.077	12.010

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_107_WG_LO_359_BB.IES

CANDELA TABULATION - (Cont.)

52.5	12.556	12.046	11.633	11.393	11.220	11.118	11.047
55.0	11.460	11.047	10.776	10.603	10.501	10.465	10.429
57.5	10.603	10.363	10.088	9.950	9.812	9.812	9.746
60.0	9.914	9.644	9.471	9.404	9.297	9.297	9.195
62.5	9.231	9.027	8.889	8.818	8.782	8.782	8.782
65.0	8.512	8.405	8.303	8.236	8.236	8.236	8.236
67.5	7.823	7.757	7.686	7.686	7.619	7.650	7.686
70.0	7.104	7.033	6.931	6.931	7.002	6.967	6.931
72.5	6.314	6.212	6.247	6.247	6.314	6.278	6.314
75.0	5.457	5.421	5.457	5.457	5.559	5.523	5.559
77.5	4.529	4.600	4.666	4.702	4.738	4.738	4.738
80.0	3.738	3.738	3.845	3.876	3.912	3.983	3.983
85.0	2.162	2.264	2.336	2.402	2.438	2.438	2.468
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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PHOTOMETRIC FILENAME : VODE_107_WG_LO_359_BB.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	124.26	N.A.	20.10
0-30	244.58	N.A.	39.60
0-40	369.29	N.A.	59.70
0-60	553.45	N.A.	89.50
0-80	615.35	N.A.	99.50
0-90	618.17	N.A.	100.00
10-90	584.23	N.A.	94.50
20-40	245.03	N.A.	39.60
20-50	352.81	N.A.	57.10
40-70	228.04	N.A.	36.90
60-80	61.89	N.A.	10.00
70-80	18.02	N.A.	2.90
80-90	2.83	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	618.17	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	33.95
10-20	90.32
20-30	120.31
30-40	124.71
40-50	107.78
50-60	76.38
60-70	43.87
70-80	18.02
80-90	2.83
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

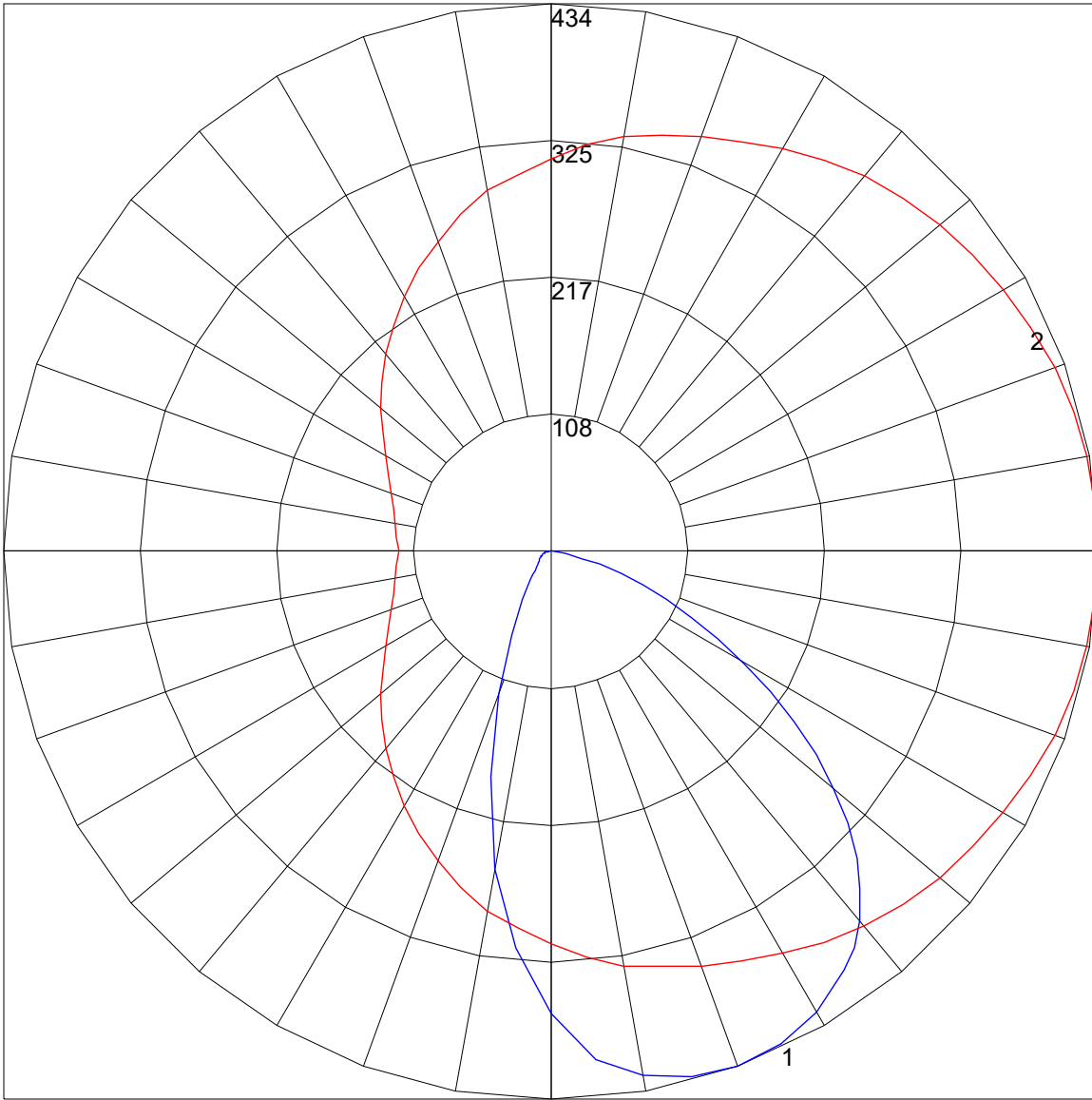
IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_107_WG_LO_359_BB.IES

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 = 433.99 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.)