

IES Report

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

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

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	64	66	68	69
Total Lumens, 4' rail length (1219mm)	954	984	1005	1025
Lumens per foot (305mm)	239	246	251	256
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_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-LO-359-WB
[LUMINAIRE] WingRail LED, 48", 3500K, 90 CRI, zipper board,
[MORE] white baffle, low output
[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1005
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	67
Total Luminaire Watts	14.95
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	14472	11430	6592
55	15165	10474	5379
65	14548	8796	4255
75	13012	7595	3241
85	13139	7650	2014

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	390.369	390.369	390.369	390.369	390.369	390.369	390.369	390.369	390.369	390.369
5	430.093	429.966	429.583	428.992	428.017	426.962	425.646	423.953	421.964	419.801
10	463.804	463.590	463.085	462.111	460.627	458.893	456.771	453.849	450.718	447.076
15	487.177	486.928	486.331	485.316	483.623	481.420	478.793	475.238	471.174	466.303
20	501.916	501.661	501.111	500.096	498.275	495.735	492.517	488.238	482.776	476.549
25	509.031	508.822	508.225	507.042	504.966	501.876	497.683	492.048	484.765	476.422
30	509.709	509.413	508.648	507.169	504.415	500.137	494.292	486.331	476.467	465.242
35	504.543	504.288	503.105	500.774	496.582	490.227	481.843	470.750	457.618	443.516
40	493.109	492.558	490.737	487.096	480.741	471.551	459.908	445.383	429.287	412.774
45	473.795	472.948	470.026	464.610	455.629	443.139	428.272	410.866	392.317	374.192
50	444.490	443.180	439.156	431.746	420.143	404.853	387.365	367.843	347.978	328.879
55	402.737	401.253	396.086	386.728	373.560	356.490	338.028	317.827	297.457	278.149
60	348.192	346.540	341.159	331.464	317.444	300.421	282.254	262.772	243.545	225.420
65	284.667	282.892	277.598	268.617	255.530	240.669	224.492	207.295	190.357	172.105
70	218.183	216.658	212.293	204.627	194.086	182.141	168.846	155.800	142.290	129.882
75	155.927	154.826	151.480	145.977	138.394	129.673	120.146	110.277	100.026	91.009
80	99.690	99.011	96.895	93.549	88.806	83.298	77.117	70.513	63.903	57.890
85	53.020	52.683	51.750	50.184	47.853	45.058	41.754	38.240	34.389	30.870
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>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	390.369	390.369	390.369	390.369	390.369	390.369	390.369	390.369	390.369	390.369
5	417.517	414.931	412.223	409.260	406.210	402.696	399.177	395.663	391.767	387.743
10	442.797	438.013	432.975	427.385	420.944	414.130	406.929	399.391	391.175	382.576
15	460.627	454.063	446.908	438.819	429.884	420.352	409.555	398.203	385.840	372.244
20	469.011	460.418	450.973	440.640	428.951	416.711	402.778	388.253	372.116	354.460
25	466.431	455.206	443.266	430.476	416.287	401.508	385.249	368.179	349.421	328.838
30	452.329	438.437	424.167	409.260	393.292	376.946	359.116	340.864	320.239	297.794
35	428.104	412.054	396.173	380.037	363.140	346.244	327.950	308.932	287.844	264.680
40	395.454	378.007	361.233	344.168	327.527	310.457	292.164	273.447	252.909	230.673
45	355.562	337.436	320.158	302.792	286.151	269.423	252.144	234.697	215.812	195.651
50	309.611	291.526	273.574	256.719	240.837	225.379	209.794	194.509	178.245	161.476
55	259.172	241.684	224.323	209.120	194.932	181.550	168.463	155.545	142.841	129.418
60	207.932	191.796	177.485	165.031	152.750	141.785	131.157	121.288	111.165	101.000
65	161.012	147.079	135.349	124.889	115.189	106.294	98.333	90.795	83.257	75.847
70	118.621	108.074	98.843	90.586	83.426	76.694	70.640	64.923	59.078	53.825
75	82.747	75.082	68.309	62.210	56.957	51.918	47.430	43.029	38.836	34.981
80	52.300	47.093	42.432	38.199	34.471	30.916	27.571	24.562	21.558	18.931
85	27.484	24.307	21.384	18.635	16.305	14.061	11.944	9.996	8.129	6.650
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>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	390.369	390.369	390.369	390.369	390.369	390.369	390.369	390.369	390.369	390.369
5	383.846	379.996	375.931	372.076	368.098	364.497	360.937	357.719	354.715	352.043
10	373.641	364.706	355.475	346.540	337.222	328.629	320.285	312.324	305.209	298.518
15	358.861	345.102	330.618	316.429	302.200	288.354	275.395	263.706	253.286	243.632
20	337.141	318.928	299.916	281.617	263.537	246.641	231.520	217.632	205.856	195.396
25	308.173	287.038	265.144	244.774	225.170	207.340	192.265	178.796	167.953	158.554
30	275.563	252.950	230.163	209.498	190.444	174.012	160.589	149.068	139.878	132.172
35	242.107	219.453	197.431	178.163	161.349	147.079	135.854	126.368	118.998	112.817

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CANDELA TABULATION - (Cont.)

40	208.993	187.899	168.081	151.225	136.828	125.057	115.867	108.115	102.143	97.063
45	176.424	158.299	141.362	127.429	115.571	106.167	98.165	91.984	86.940	82.666
50	145.595	130.647	117.050	105.789	96.176	88.510	82.243	76.780	72.333	68.518
55	117.009	105.279	94.605	85.501	78.259	71.951	66.616	61.700	57.808	54.463
60	91.514	82.747	74.536	67.376	61.450	56.110	51.413	47.348	44.084	41.840
65	68.646	62.041	55.814	50.393	45.186	41.376	37.097	33.838	31.339	29.264
70	48.659	43.661	39.086	34.726	30.406	26.933	24.138	21.808	20.114	18.717
75	31.294	27.739	23.929	20.410	17.320	15.035	13.255	11.857	10.756	9.950
80	16.473	13.719	10.970	8.808	7.201	6.054	5.166	4.488	3.937	3.560
85	5.039	3.473	2.412	1.739	1.270	0.847	0.337	0.168	0.087	0.087
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	390.369	390.369	390.369	390.369	390.369	390.369	390.369
5	349.549	347.514	345.734	344.337	343.363	342.730	342.429
10	292.546	287.548	283.438	280.010	277.639	276.155	275.604
15	235.248	228.261	222.712	218.183	215.047	213.098	212.507
20	186.548	179.561	173.925	169.606	166.642	164.863	164.312
25	150.929	144.876	140.260	136.491	134.074	132.554	132.126
30	126.031	121.201	117.433	114.469	112.521	111.333	110.956
35	107.819	103.969	100.919	98.374	96.767	95.834	95.457
40	92.871	89.612	87.026	84.910	83.472	82.625	82.243
45	79.065	76.230	73.858	71.910	70.640	69.834	69.620
50	65.300	62.801	60.731	59.119	58.018	57.298	57.171
55	51.790	49.674	47.981	46.752	45.823	45.313	45.145
60	39.341	37.689	36.419	35.445	34.853	34.430	34.303
65	27.780	26.596	25.704	24.985	24.521	24.225	24.138
70	17.661	16.896	16.218	15.713	15.458	15.244	15.244
75	9.318	8.808	8.425	8.089	7.920	7.879	7.879
80	3.218	2.922	2.708	2.540	2.458	2.412	2.371
85	0.087	0.087	0.087	0.087	0.087	0.087	0.087
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	140.14	N.A.	14.00
0-30	292.81	N.A.	29.10
0-40	473.64	N.A.	47.20
0-60	815.01	N.A.	81.10
0-80	986.33	N.A.	98.20
0-90	1004.51	N.A.	100.00
10-90	967.69	N.A.	96.30
20-40	333.50	N.A.	33.20
20-50	517.04	N.A.	51.50
40-70	452.56	N.A.	45.10
60-80	171.31	N.A.	17.10
70-80	60.13	N.A.	6.00
80-90	18.19	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	1004.51	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	36.83
10-20	103.31
20-30	152.67
30-40	180.82
40-50	183.54
50-60	157.84
60-70	111.19
70-80	60.13
80-90	18.19
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

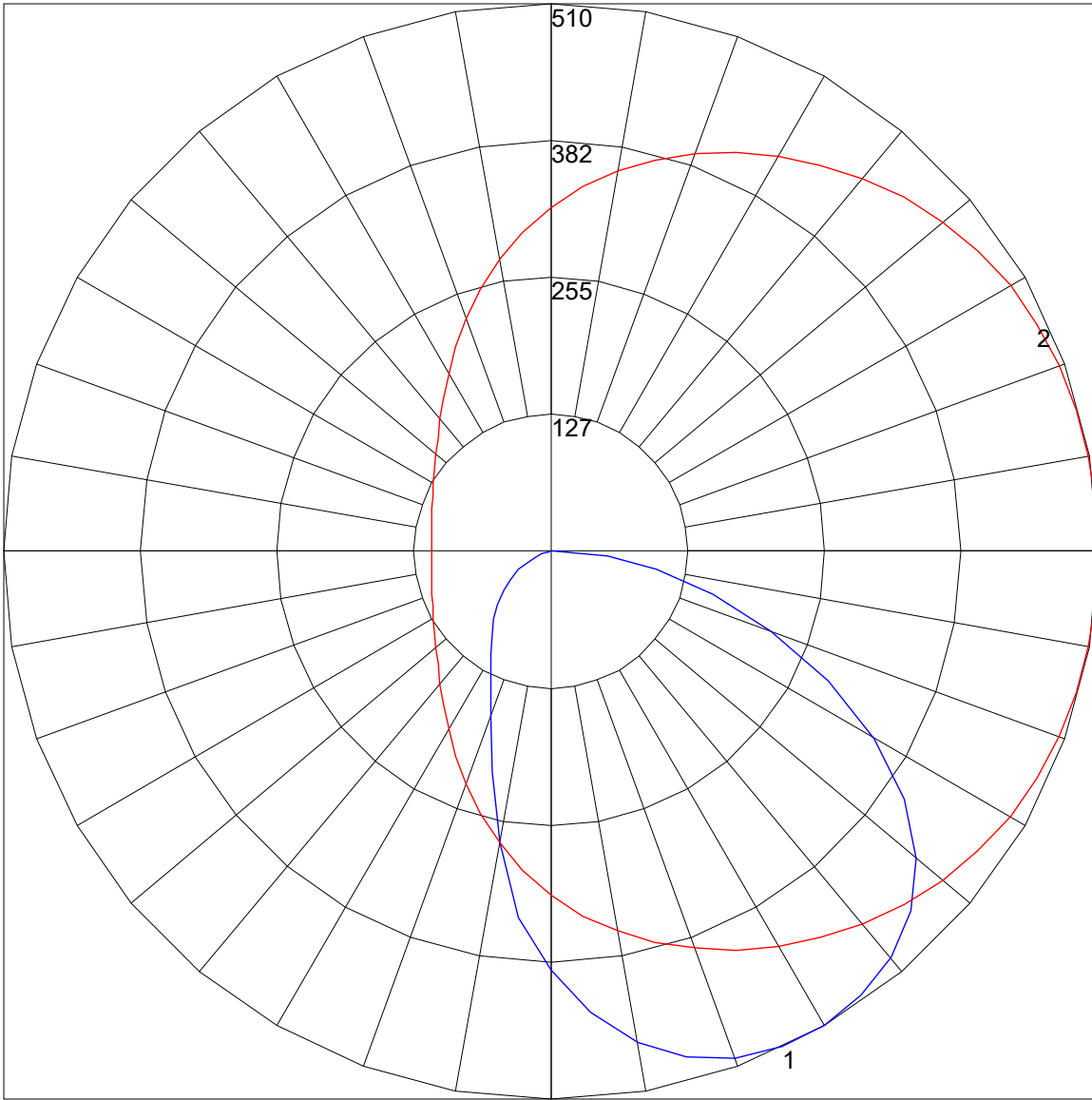
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96		106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	85	79		97	89	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	52	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	25

POLAR GRAPH



Maximum Candela = 509.709 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.)