

IES Report

WingRail® | 107 | White Baffle with EdgeSoft™ | 80 CRI | LO

107-WG-XX-4-48-XX-XX-XX-XX-X-X-Z-LO-35-WB-X-XX-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	75	77	78	80
Total Lumens, 4' rail length (1219mm)	1107	1142	1165	1189
Lumens per foot (305mm)	277	285	291	297
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	85	85	85	85

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_35_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-35-WB
[LUMINAIRE] WingRail LED, 48", 3500K, 80 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	1162
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	78
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	16742	13222	7626
55	17544	12117	6222
65	16830	10175	4922
75	15053	8786	3749
85	15200	8850	2331

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	451.604	451.604	451.604	451.604	451.604	451.604	451.604	451.604	451.604	451.604
5	497.559	497.411	496.969	496.284	495.157	493.936	492.414	490.455	488.154	485.653
10	536.558	536.310	535.726	534.599	532.882	530.876	528.422	525.041	521.418	517.206
15	563.597	563.308	562.618	561.444	559.485	556.936	553.898	549.786	545.083	539.449
20	580.648	580.353	579.716	578.542	576.436	573.498	569.775	564.825	558.506	551.302
25	588.879	588.637	587.947	586.578	584.177	580.601	575.751	569.232	560.807	551.154
30	589.664	589.321	588.436	586.725	583.539	578.589	571.828	562.618	551.207	538.222
35	583.687	583.392	582.023	579.327	574.477	567.126	557.426	544.594	529.401	513.088
40	570.459	569.822	567.716	563.503	556.152	545.520	532.050	515.247	496.627	477.522
45	548.116	547.136	543.756	537.490	527.100	512.651	495.452	475.316	453.857	432.889
50	514.214	512.698	508.043	499.470	486.048	468.360	448.129	425.543	402.563	380.467
55	465.911	464.194	458.218	447.391	432.157	412.410	391.052	367.682	344.117	321.780
60	402.811	400.899	394.675	383.459	367.240	347.545	326.530	303.992	281.749	260.780
65	329.320	327.267	321.143	310.753	295.614	278.421	259.706	239.811	220.217	199.101
70	252.408	250.644	245.593	236.726	224.530	210.713	195.331	180.239	164.610	150.255
75	180.387	179.112	175.242	168.876	160.102	150.013	138.992	127.576	115.717	105.285
80	115.327	114.543	112.094	108.224	102.737	96.365	89.214	81.573	73.927	66.971
85	61.336	60.947	59.867	58.056	55.360	52.126	48.303	44.238	39.784	35.713
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	451.604	451.604	451.604	451.604	451.604	451.604	451.604	451.604	451.604	451.604
5	483.009	480.018	476.885	473.457	469.929	465.864	461.793	457.728	453.220	448.565
10	512.256	506.721	500.892	494.426	486.974	479.092	470.761	462.041	452.536	442.588
15	532.882	525.289	517.011	507.654	497.317	486.290	473.799	460.666	446.364	430.635
20	542.582	532.640	521.713	509.760	496.237	482.077	465.958	449.155	430.488	410.062
25	539.596	526.610	512.798	498.001	481.587	464.489	445.680	425.933	404.233	380.420
30	523.283	507.211	490.703	473.457	454.984	436.075	415.448	394.332	370.473	344.507
35	495.258	476.690	458.318	439.650	420.104	400.557	379.394	357.392	332.996	306.198
40	457.486	437.302	417.897	398.156	378.904	359.157	337.993	316.340	292.581	266.857
45	411.336	390.368	370.378	350.289	331.037	311.685	291.696	271.512	249.664	226.342
50	358.177	337.256	316.488	296.988	278.616	260.733	242.702	225.020	206.205	186.806
55	299.826	279.595	259.511	241.924	225.510	210.028	194.889	179.944	165.247	149.718
60	240.549	221.881	205.326	190.918	176.711	164.026	151.730	140.314	128.602	116.844
65	186.269	170.150	156.580	144.479	133.257	122.968	113.758	105.038	96.317	87.745
70	137.228	125.027	114.348	104.796	96.512	88.724	81.721	75.107	68.346	62.269
75	95.727	86.860	79.025	71.968	65.891	60.062	54.870	49.778	44.928	40.468
80	60.504	54.481	49.088	44.191	39.878	35.766	31.895	28.414	24.939	21.901
85	31.795	28.119	24.739	21.559	18.862	16.266	13.818	11.564	9.405	7.694
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	451.604	451.604	451.604	451.604	451.604	451.604	451.604	451.604	451.604	451.604
5	444.058	439.603	434.901	430.440	425.838	421.673	417.555	413.832	410.357	407.265
10	432.252	421.915	411.236	400.899	390.120	380.178	370.526	361.316	353.085	345.345
15	415.153	399.235	382.479	366.065	349.604	333.586	318.594	305.071	293.018	281.849
20	390.025	368.956	346.961	325.792	304.877	285.330	267.836	251.771	238.148	226.047
25	356.513	332.064	306.735	283.170	260.491	239.864	222.424	206.842	194.299	183.425
30	318.789	292.628	266.267	242.360	220.318	201.308	185.779	172.451	161.819	152.904
35	280.085	253.877	228.401	206.111	186.658	170.150	157.164	146.190	137.665	130.514

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_107_WG_LO_35_WB.IES

CANDELA TABULATION - (Cont.)

40	241.776	217.374	194.446	174.947	158.291	144.674	134.042	125.074	118.165	112.289
45	204.099	183.130	163.536	147.417	133.700	122.820	113.563	106.412	100.577	95.633
50	168.433	151.140	135.411	122.384	111.262	102.394	95.143	88.824	83.680	79.266
55	135.364	121.794	109.445	98.913	90.535	83.237	77.066	71.378	66.876	63.006
60	105.870	95.727	86.228	77.945	71.089	64.912	59.478	54.776	51.000	48.404
65	79.414	71.773	64.570	58.298	52.274	47.867	42.917	39.146	36.255	33.854
70	56.292	50.510	45.218	40.173	35.176	31.158	27.925	25.228	23.270	21.653
75	36.202	32.090	27.683	23.612	20.036	17.393	15.334	13.717	12.443	11.511
80	19.057	15.871	12.691	10.189	8.331	7.003	5.977	5.192	4.555	4.118
85	5.829	4.018	2.791	2.012	1.469	0.979	0.389	0.195	0.100	0.100
90	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>
0	451.604	451.604	451.604	451.604	451.604	451.604	451.604
5	404.380	402.026	399.967	398.350	397.223	396.492	396.144
10	338.436	332.654	327.898	323.934	321.190	319.473	318.836
15	272.149	264.066	257.647	252.408	248.779	246.526	245.841
20	215.810	207.727	201.208	196.210	192.782	190.723	190.086
25	174.605	167.601	162.262	157.902	155.105	153.347	152.851
30	145.801	140.213	135.853	132.425	130.172	128.797	128.360
35	124.732	120.277	116.749	113.805	111.947	110.867	110.430
40	107.439	103.669	100.678	98.229	96.565	95.586	95.143
45	91.468	88.187	85.444	83.190	81.721	80.789	80.541
50	75.544	72.653	70.257	68.393	67.118	66.286	66.139
55	59.914	57.466	55.507	54.085	53.011	52.421	52.227
60	45.513	43.601	42.132	41.005	40.321	39.831	39.683
65	32.137	30.768	29.736	28.904	28.367	28.025	27.925
70	20.432	19.547	18.762	18.178	17.883	17.635	17.635
75	10.779	10.189	9.747	9.357	9.163	9.115	9.115
80	3.723	3.381	3.133	2.938	2.844	2.791	2.743
85	0.100	0.100	0.100	0.100	0.100	0.100	0.100
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	162.12	N.A.	14.00
0-30	338.74	N.A.	29.10
0-40	547.93	N.A.	47.20
0-60	942.86	N.A.	81.10
0-80	1141.04	N.A.	98.20
0-90	1162.08	N.A.	100.00
10-90	1119.48	N.A.	96.30
20-40	385.81	N.A.	33.20
20-50	598.14	N.A.	51.50
40-70	523.55	N.A.	45.10
60-80	198.19	N.A.	17.10
70-80	69.56	N.A.	6.00
80-90	21.04	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	1162.08	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	42.60
10-20	119.52
20-30	176.62
30-40	209.19
40-50	212.33
50-60	182.60
60-70	128.63
70-80	69.56
80-90	21.04
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

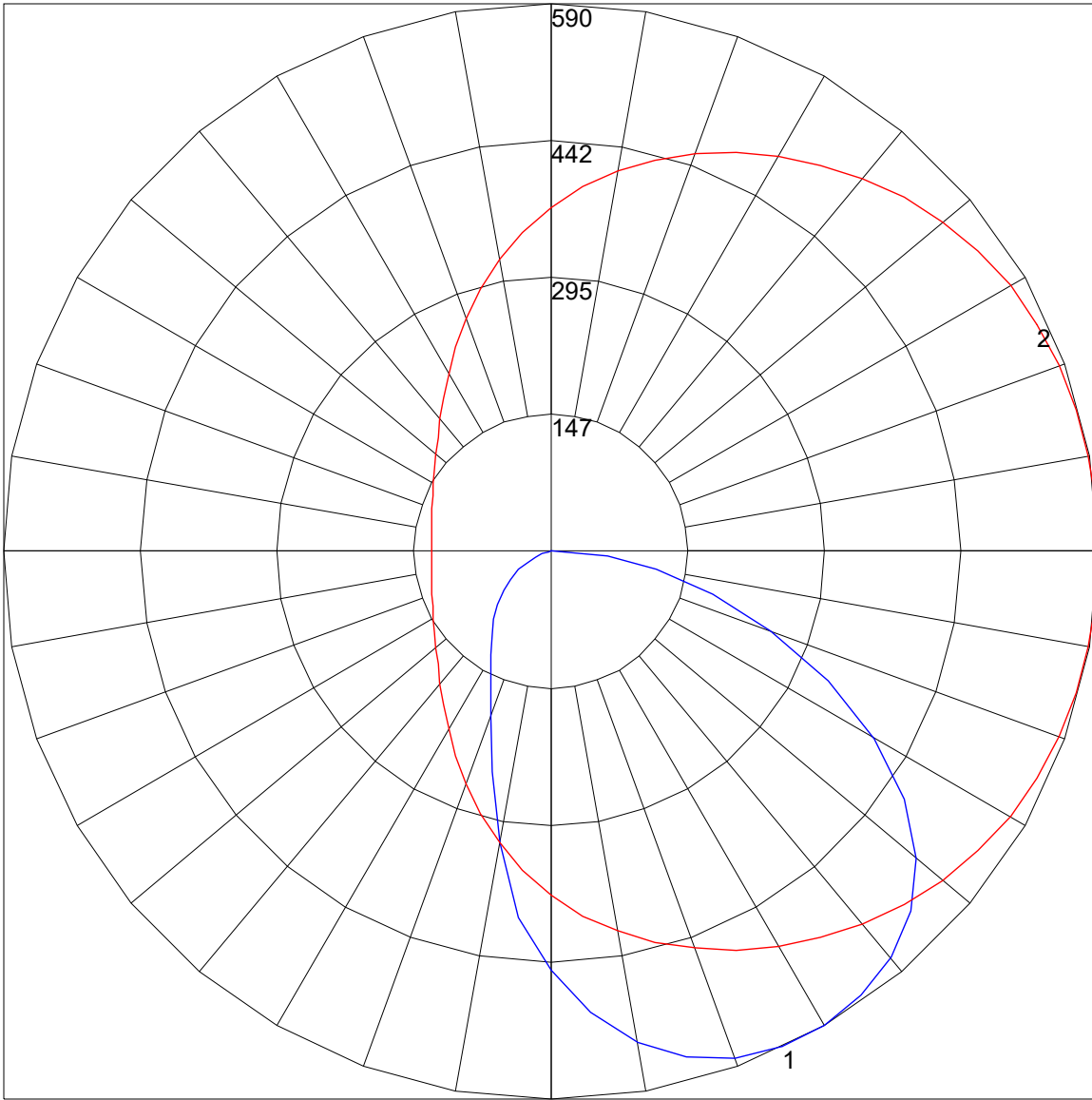
IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_107_WG_LO_35_WB.IES

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	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 = 589.664 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.)