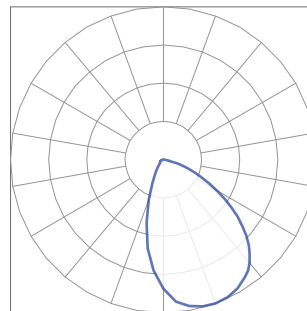
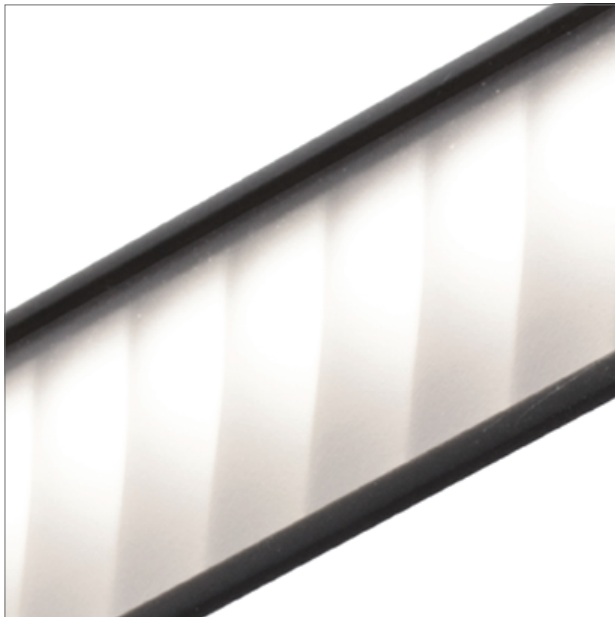


WingRail® | 107

107-WG-X-4-48-X-X-X-X-X-X-Z-SO-35-BB-X-X-X

The performance data in black text is confirmed through third party testing (see the following Light Laboratory report for details). The performance data in grey text is calculated by Vode, for reference only.

Technical Support: (707) 996-9898



Details

Rail Type / Length	WingRail, 48"
LED Type	Zipper Board
Lumen Output	Standard Output
Color Temperature	3500K, 80+ CRI
Optics	Black Baffle

Performance Summary

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	57	59	60	61
Total Lumens, 4' rail (1219mm)	1362	1405	1434	1463
Lumens per foot (305mm)	341	351	359	366
Input Power (W), 4' rail (1219mm)	24.1	24.1	24.1	24.1
Watts per foot (305mm)	6.1	6.1	6.1	6.1
CRI	-	-	85	-

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IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_107_WG_SO_35_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-SO-35-BB
[LUMINAIRE] WingRail LED, 48", 3500K, 80 CRI, zipper board,
[MORE] black baffle, standard output
[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1430
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	59
Total Luminaire Watts	24.12
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	24274	16344	8764
55	20574	12218	5483
65	14623	8285	3518
75	7764	4935	2358
85	41	611	1161

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	847.889	847.889	847.889	847.889	847.889	847.889	847.889	847.889	847.889	847.889
5.0	936.177	927.043	924.978	924.105	923.468	918.866	915.456	911.243	906.960	902.110
10.0	975.872	966.892	964.202	962.054	959.753	953.003	947.210	940.460	932.601	924.577
15.0	996.829	991.188	987.778	984.439	980.309	971.341	962.207	951.576	939.988	928.070
20.0	1004.133	1003.496	998.091	993.654	984.521	972.532	959.269	945.463	930.855	914.417
25.0	996.982	1000.557	993.336	986.421	976.190	960.308	942.124	920.447	897.744	875.206
30.0	976.190	982.692	971.895	963.647	948.083	926.961	902.594	874.805	847.098	817.008
35.0	938.548	946.490	933.876	920.612	897.189	870.038	838.756	808.595	772.310	737.535
37.5	916.164	916.246	902.912	887.903	865.990	837.092	803.356	763.979	724.673	688.636
40.0	881.389	883.301	869.164	853.046	826.850	794.140	757.938	719.517	678.948	642.899
42.5	839.948	843.440	827.959	809.539	778.741	743.730	706.018	670.854	626.946	591.062
45.0	794.695	793.585	777.549	757.702	729.523	695.457	656.953	617.258	571.297	535.095
47.5	738.810	738.963	724.520	703.315	669.343	636.551	598.213	558.116	519.294	482.856
50.0	678.158	676.730	662.358	640.044	611.464	578.991	541.290	499.282	459.988	424.658
52.5	613.694	610.272	599.393	577.964	548.511	517.465	481.263	445.934	408.150	374.567
55.0	546.364	543.272	532.239	512.545	482.691	453.238	424.257	391.158	355.192	324.465
57.5	478.254	474.360	463.716	445.379	422.995	395.678	367.263	334.152	303.354	275.247
60.0	410.923	406.239	398.698	383.453	362.095	338.200	313.042	286.917	259.683	234.997
62.5	347.097	342.094	335.509	321.137	303.826	283.424	264.296	242.301	216.176	195.137
65.0	286.126	282.232	278.421	267.624	251.753	235.469	217.368	198.795	180.693	162.120
67.5	230.230	227.457	224.601	214.512	202.842	190.464	176.327	160.126	145.364	131.546
70.0	179.100	177.047	174.180	167.513	159.654	149.494	139.098	126.236	114.318	103.285
72.5	133.694	132.903	129.729	125.753	120.124	112.973	105.350	97.338	88.913	80.429
75.0	93.043	92.654	90.589	88.842	85.184	81.054	76.134	70.186	64.865	59.142
77.5	57.643	57.643	56.841	55.897	54.941	52.876	50.256	47.318	43.908	40.486
80.0	28.108	28.025	28.426	28.497	28.981	29.052	28.662	27.942	26.751	25.169
85.0	0.165	0.165	0.165	0.319	0.401	0.319	0.472	0.791	1.593	2.466
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	847.889	847.889	847.889	847.889	847.889	847.889	847.889	847.889	847.889	847.889
5.0	897.508	889.567	879.808	870.592	864.409	860.114	855.984	844.868	836.301	828.207
10.0	916.400	906.877	891.632	877.188	867.583	855.665	847.098	829.870	815.970	801.126
15.0	916.246	901.957	883.690	865.589	850.037	832.891	819.545	799.615	779.461	758.103
20.0	897.107	874.569	851.464	828.360	809.150	788.346	771.437	747.141	719.116	693.238
25.0	850.426	825.976	798.187	771.909	747.778	721.664	701.250	674.028	645.366	615.441
30.0	786.836	758.020	723.647	693.793	665.685	638.144	616.550	588.360	558.034	526.599
35.0	703.481	669.107	636.634	605.352	575.262	547.154	524.132	496.910	464.200	433.072
37.5	653.626	621.152	588.442	557.161	527.153	498.975	477.853	452.211	422.676	387.901
40.0	607.098	570.495	538.422	506.751	477.935	450.784	427.443	402.191	372.738	343.522
42.5	554.541	518.103	487.541	456.577	428.151	401.554	378.933	355.829	330.341	300.499
45.0	499.683	466.183	436.494	405.767	378.697	352.018	332.253	310.729	286.917	259.848
47.5	448.719	411.242	382.816	354.083	328.760	307.638	287.153	268.108	243.092	219.515
50.0	392.267	362.024	334.554	308.428	282.787	264.851	244.838	228.247	209.592	187.042
52.5	344.159	313.349	288.026	264.686	242.856	223.480	206.500	191.962	175.053	156.798
55.0	296.605	267.943	245.003	224.908	205.780	187.844	173.389	161.247	145.600	130.355
57.5	250.313	227.539	206.819	189.272	171.006	158.226	146.001	135.204	122.578	108.525
60.0	212.365	191.337	173.472	157.270	143.382	131.157	120.679	111.380	100.984	89.397
62.5	176.091	159.253	144.491	131.310	119.003	108.371	99.958	92.099	84.158	74.706
65.0	145.211	131.157	118.767	107.887	97.810	89.786	81.927	75.579	68.829	61.926
67.5	118.531	106.943	96.382	87.721	79.556	72.806	66.847	61.690	56.770	50.657
70.0	93.362	84.394	76.771	70.186	64.227	59.071	54.150	50.091	45.973	41.914

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_107_WG_SO_35_BB.IES

CANDELA TABULATION - (Cont.)

72.5	72.169	65.419	59.708	54.622	50.410	46.445	42.633	39.294	36.285	33.347
75.0	53.985	49.218	44.533	41.123	37.866	35.093	32.710	30.491	28.261	25.877
77.5	37.229	34.137	31.518	29.134	27.388	25.641	23.742	22.314	20.957	19.529
80.0	23.423	21.830	20.320	19.128	18.019	17.145	16.119	15.246	14.455	13.735
85.0	3.339	3.575	3.965	4.283	4.602	4.602	4.767	4.767	4.685	4.921
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	847.889	847.889	847.889	847.889	847.889	847.889	847.889	847.889	847.889	847.889
5.0	823.038	811.604	801.126	792.948	787.320	782.954	776.995	770.092	763.897	756.746
10.0	787.709	770.162	750.952	735.400	720.543	708.319	692.601	676.565	662.358	646.876
15.0	738.645	713.168	686.406	661.956	638.699	615.358	588.596	562.400	538.505	516.038
20.0	670.854	638.852	604.243	571.368	538.351	504.285	472.130	437.992	407.194	376.314
25.0	586.141	549.467	507.542	468.082	428.316	389.966	347.250	311.532	280.085	249.287
30.0	493.806	452.601	407.430	364.006	321.456	281.359	241.192	209.190	182.286	159.819
35.0	401.873	360.915	310.812	267.789	228.802	193.957	162.746	137.907	117.811	101.067
37.5	352.891	312.794	271.282	230.076	193.473	160.846	129.729	109.008	92.890	80.983
40.0	308.983	270.881	228.330	190.771	158.073	129.729	107.014	89.314	76.617	66.210
42.5	268.344	233.015	193.555	159.819	131.228	107.097	86.376	72.487	62.245	54.221
45.0	229.675	197.768	162.828	133.541	108.525	87.969	71.449	60.180	52.003	45.725
47.5	192.128	166.557	136.078	110.908	89.951	73.042	60.416	51.365	44.781	39.377
50.0	163.548	139.488	113.056	92.252	75.024	61.372	50.339	43.188	38.267	34.539
52.5	136.396	115.746	93.916	76.853	62.634	51.767	43.743	37.713	33.819	30.963
55.0	113.209	96.217	79.709	64.782	53.348	44.781	38.350	33.665	30.562	28.025
57.5	94.317	80.429	67.402	56.050	46.044	38.669	33.583	29.937	27.624	25.807
60.0	77.797	66.694	57.159	47.401	40.014	34.539	30.326	27.470	25.405	23.812
62.5	65.655	56.770	47.955	40.734	35.011	30.562	26.916	24.933	23.423	21.995
65.0	54.858	47.790	41.442	35.329	30.727	26.833	24.450	22.786	21.441	20.485
67.5	45.100	39.778	34.692	30.326	26.833	24.131	22.066	20.485	19.446	18.656
70.0	37.312	33.347	29.453	26.279	23.423	21.039	19.446	18.101	17.381	16.673
72.5	30.090	27.234	24.450	21.759	19.612	18.019	16.827	15.883	15.246	14.762
75.0	23.812	21.594	19.612	17.783	16.272	15.080	14.207	13.334	12.862	12.709
77.5	18.101	16.673	15.399	14.054	12.945	11.835	11.198	10.962	10.714	10.644
80.0	12.862	12.071	11.269	10.396	9.605	8.968	8.579	8.496	8.496	8.413
85.0	4.767	4.602	4.449	4.366	4.213	4.449	4.602	4.602	4.838	5.003
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	847.889	847.889	847.889	847.889	847.889	847.889	847.889
5.0	750.397	746.350	742.704	739.364	736.190	733.653	729.441
10.0	634.167	623.854	614.721	607.570	600.986	597.340	590.507
15.0	495.553	478.171	463.327	450.382	441.733	436.411	428.871
20.0	349.245	328.913	312.169	299.543	290.256	283.825	278.504
25.0	226.820	208.400	194.346	183.160	176.091	171.879	168.150
30.0	142.745	129.175	119.086	111.073	106.460	103.769	102.094
35.0	88.760	80.500	74.623	70.340	67.803	66.127	64.782
37.5	72.086	65.502	61.053	57.242	55.330	54.304	53.513
40.0	58.670	53.902	50.410	47.955	46.681	45.654	44.934
42.5	49.064	45.253	42.869	40.804	39.778	39.223	38.739
45.0	42.079	39.223	37.076	35.648	34.609	34.373	33.984
47.5	36.438	34.137	32.710	31.683	30.963	30.727	30.491
50.0	32.238	30.562	29.453	28.580	28.178	27.942	27.789

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

52.5	29.052	27.872	26.916	26.361	25.960	25.724	25.559
55.0	26.515	25.559	24.933	24.532	24.296	24.214	24.131
57.5	24.532	23.978	23.340	23.022	22.703	22.703	22.550
60.0	22.939	22.314	21.913	21.759	21.511	21.511	21.275
62.5	21.358	20.886	20.567	20.402	20.320	20.320	20.320
65.0	19.694	19.446	19.210	19.057	19.057	19.057	19.057
67.5	18.101	17.948	17.783	17.783	17.629	17.700	17.783
70.0	16.437	16.272	16.036	16.036	16.201	16.119	16.036
72.5	14.608	14.372	14.455	14.455	14.608	14.526	14.608
75.0	12.626	12.543	12.626	12.626	12.862	12.779	12.862
77.5	10.478	10.644	10.797	10.880	10.962	10.962	10.962
80.0	8.649	8.649	8.897	8.968	9.051	9.216	9.216
85.0	5.003	5.239	5.404	5.558	5.640	5.640	5.711
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_107_WG_SO_35_BB.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	287.51	N.A.	20.10
0-30	565.88	N.A.	39.60
0-40	854.44	N.A.	59.70
0-60	1280.54	N.A.	89.50
0-80	1423.74	N.A.	99.50
0-90	1430.28	N.A.	100.00
10-90	1351.74	N.A.	94.50
20-40	566.92	N.A.	39.60
20-50	816.31	N.A.	57.10
40-70	527.61	N.A.	36.90
60-80	143.20	N.A.	10.00
70-80	41.69	N.A.	2.90
80-90	6.54	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	1430.28	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	78.54
10-20	208.97
20-30	278.37
30-40	288.55
40-50	249.38
50-60	176.72
60-70	101.51
70-80	41.69
80-90	6.54
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

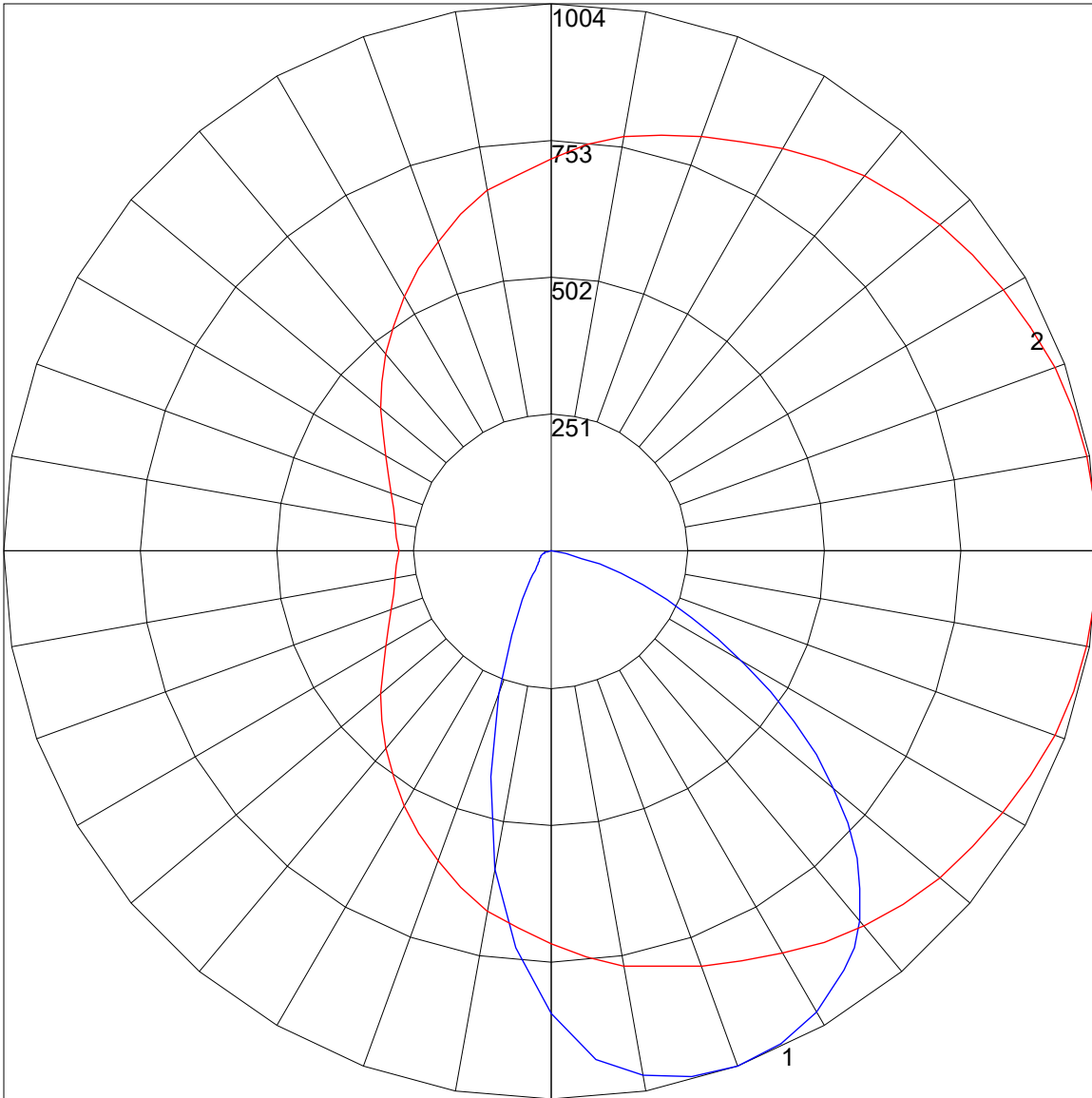
IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_107_WG_SO_35_BB.IES

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	77	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 = 1004.133 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.)