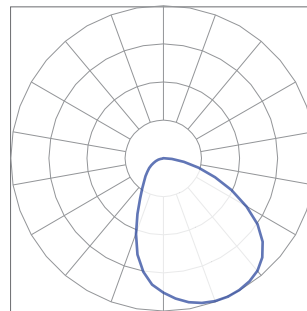


WingRail® | 107

107-WG-X-4-48-X-X-X-X-X-X-Z-SO-35-C1-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	Clear with Edge Softening Lens

Performance Summary

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	112	116	118	121
Total Lumens, 4' rail (1219mm)	2699	2784	2841	2898
Lumens per foot (305mm)	675	696	710	724
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_C1.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L071704217 (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-C1
[LUMINAIRE] WingRail LED, 48", 3500K, 80 CRI, zipper board,
[MORE] clear lens w/edge softening, standard output
[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2833
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	117
Total Luminaire Watts	24.13
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.66
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.30
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	35070	31249	21049
55	35458	31415	18707
65	31540	28645	15679
75	25110	23731	12210
85	17253	18130	7603

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_107_WG_SO_35_C1.IES

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	1102.12	1102.12	1102.12	1102.12	1102.12	1102.12	1102.12	1102.12	1102.12	1102.12
5	1151.68	1151.68	1150.50	1149.32	1148.14	1146.96	1144.60	1142.24	1139.88	1136.34
10	1196.52	1195.34	1194.16	1192.98	1189.44	1187.08	1182.36	1177.64	1171.74	1165.84
15	1226.02	1226.02	1223.66	1221.30	1217.76	1211.86	1205.96	1198.88	1190.62	1182.36
20	1243.72	1242.54	1240.18	1236.64	1231.92	1224.84	1217.76	1208.32	1197.70	1185.90
25	1250.80	1249.62	1246.08	1241.36	1235.46	1227.20	1216.58	1205.96	1191.80	1177.64
30	1246.08	1244.90	1242.54	1236.64	1228.38	1217.76	1207.14	1192.98	1176.46	1158.76
35	1230.74	1229.56	1226.02	1218.94	1209.50	1198.88	1184.72	1168.20	1149.32	1128.08
40	1200.06	1198.88	1195.34	1187.08	1177.64	1163.48	1148.14	1129.26	1108.02	1084.42
45	1148.14	1146.96	1142.24	1133.98	1123.36	1108.02	1091.50	1071.44	1047.84	1023.06
50	1064.36	1062.00	1058.46	1050.20	1039.58	1026.60	1010.08	990.02	966.42	940.46
55	941.64	940.46	936.92	932.20	922.76	910.96	897.98	879.10	857.86	834.26
60	788.24	788.24	784.70	781.16	774.08	765.82	755.20	742.22	724.52	704.46
65	617.14	617.14	615.96	613.60	610.06	604.16	597.08	587.64	575.84	560.50
70	450.76	449.58	449.58	448.40	447.22	443.68	440.14	434.24	427.16	416.54
75	300.90	300.90	300.90	300.90	300.90	299.72	297.36	295.00	290.28	284.38
80	171.10	171.10	171.10	172.28	172.28	173.46	172.28	172.28	169.92	166.38
85	69.62	69.62	69.62	70.80	71.98	71.98	73.16	73.16	73.16	73.16
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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	1102.12	1102.12	1102.12	1102.12	1102.12	1102.12	1102.12	1102.12	1102.12	1102.12
5	1132.80	1129.26	1125.72	1121.00	1117.46	1112.74	1108.02	1103.30	1098.58	1093.86
10	1158.76	1150.50	1142.24	1133.98	1124.54	1115.10	1104.48	1095.04	1084.42	1073.80
15	1171.74	1159.94	1146.96	1133.98	1121.00	1106.84	1091.50	1074.98	1059.64	1041.94
20	1171.74	1157.58	1141.06	1123.36	1105.66	1086.78	1066.72	1045.48	1023.06	999.46
25	1161.12	1143.42	1123.36	1102.12	1079.70	1056.10	1031.32	1004.18	977.04	946.36
30	1138.70	1117.46	1093.86	1069.08	1043.12	1014.80	985.30	953.44	919.22	882.64
35	1104.48	1079.70	1053.74	1024.24	994.74	962.88	927.48	892.08	851.96	809.48
40	1057.28	1030.14	999.46	968.78	934.56	899.16	860.22	820.10	775.26	726.88
45	994.74	964.06	931.02	896.80	859.04	821.28	779.98	736.32	689.12	637.20
50	910.96	879.10	844.88	808.30	770.54	731.60	687.94	644.28	595.90	542.80
55	805.94	776.44	742.22	705.64	667.88	628.94	587.64	543.98	496.78	446.04
60	679.68	652.54	623.04	591.18	554.60	519.20	480.26	441.32	398.84	354.00
65	542.80	519.20	494.42	467.28	437.78	404.74	375.24	342.20	306.80	271.40
70	403.56	388.22	369.34	348.10	324.50	299.72	274.94	248.98	220.66	194.70
75	276.12	264.32	251.34	236.00	220.66	201.78	184.08	165.20	146.32	127.44
80	161.66	155.76	148.68	138.06	127.44	116.82	105.02	93.22	81.42	70.80
85	69.62	67.26	64.90	60.18	53.10	48.38	42.48	36.58	30.68	27.14
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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	1102.12	1102.12	1102.12	1102.12	1102.12	1102.12	1102.12	1102.12	1102.12	1102.12
5	1089.14	1084.42	1079.70	1074.98	1071.44	1066.72	1063.18	1058.46	1054.92	1051.38
10	1063.18	1052.56	1041.94	1031.32	1020.70	1010.08	1000.64	991.20	982.94	974.68
15	1025.42	1007.72	990.02	973.50	955.80	938.10	921.58	903.88	888.54	873.20
20	977.04	953.44	927.48	901.52	875.56	849.60	823.64	795.32	770.54	745.76
25	916.86	885.00	850.78	815.38	779.98	742.22	705.64	666.70	632.48	601.80
30	846.06	807.12	763.46	717.44	671.42	624.22	578.20	534.54	497.96	467.28
35	765.82	718.62	666.70	611.24	558.14	506.22	459.02	420.08	389.40	364.62

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

40	677.32	624.22	565.22	507.40	450.76	402.38	362.26	330.40	307.98	290.28
45	584.10	526.28	466.10	409.46	358.72	318.60	287.92	265.50	248.98	236.00
50	488.52	431.88	375.24	325.68	284.38	253.70	231.28	214.76	202.96	194.70
55	395.30	344.56	296.18	256.06	224.20	201.78	186.44	174.64	166.38	159.30
60	310.34	267.86	227.74	198.24	174.64	159.30	147.50	139.24	133.34	128.62
65	234.82	201.78	172.28	149.86	133.34	121.54	114.46	107.38	103.84	99.12
70	168.74	142.78	122.72	107.38	96.76	88.50	82.60	79.06	75.52	73.16
75	109.74	95.58	79.06	69.62	62.54	57.82	54.28	50.74	49.56	47.20
80	60.18	49.56	42.48	36.58	33.04	30.68	28.32	27.14	25.96	24.78
85	21.24	16.52	14.16	11.80	10.62	10.62	9.44	8.26	8.26	7.08
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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	1102.12	1102.12	1102.12	1102.12	1102.12	1102.12	1102.12
5	1049.02	1046.66	1044.30	1041.94	1040.76	1039.58	1039.58
10	966.42	960.52	954.62	949.90	947.54	945.18	945.18
15	859.04	847.24	836.62	828.36	822.46	818.92	817.74
20	723.34	705.64	689.12	676.14	666.70	660.80	659.62
25	574.66	552.24	533.36	519.20	509.76	503.86	502.68
30	442.50	422.44	407.10	396.48	389.40	384.68	383.50
35	344.56	330.40	319.78	312.70	307.98	304.44	303.26
40	277.30	266.68	259.60	254.88	250.16	248.98	247.80
45	226.56	220.66	214.76	210.04	207.68	206.50	205.32
50	187.62	182.90	178.18	174.64	172.28	171.10	171.10
55	154.58	149.86	146.32	143.96	142.78	140.42	140.42
60	123.90	121.54	118.00	115.64	114.46	113.28	113.28
65	96.76	94.40	92.04	90.86	89.68	88.50	88.50
70	70.80	68.44	67.26	66.08	64.90	64.90	64.90
75	46.02	44.84	43.66	42.48	42.48	42.48	42.48
80	23.60	23.60	22.42	22.42	22.42	22.42	22.42
85	7.08	7.08	5.90	5.90	5.90	5.90	5.90
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_107_WG_SO_35_C1.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	397.18	N.A.	14.00
0-30	823.45	N.A.	29.10
0-40	1320.71	N.A.	46.60
0-60	2285.89	N.A.	80.70
0-80	2787.65	N.A.	98.40
0-90	2833.12	N.A.	100.00
10-90	2729.01	N.A.	96.30
20-40	923.52	N.A.	32.60
20-50	1434.54	N.A.	50.60
40-70	1292.81	N.A.	45.60
60-80	501.77	N.A.	17.70
70-80	174.13	N.A.	6.10
80-90	45.47	N.A.	1.60
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	2833.12	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	104.11
10-20	293.07
20-30	426.26
30-40	497.26
40-50	511.01
50-60	454.17
60-70	327.63
70-80	174.13
80-90	45.47
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

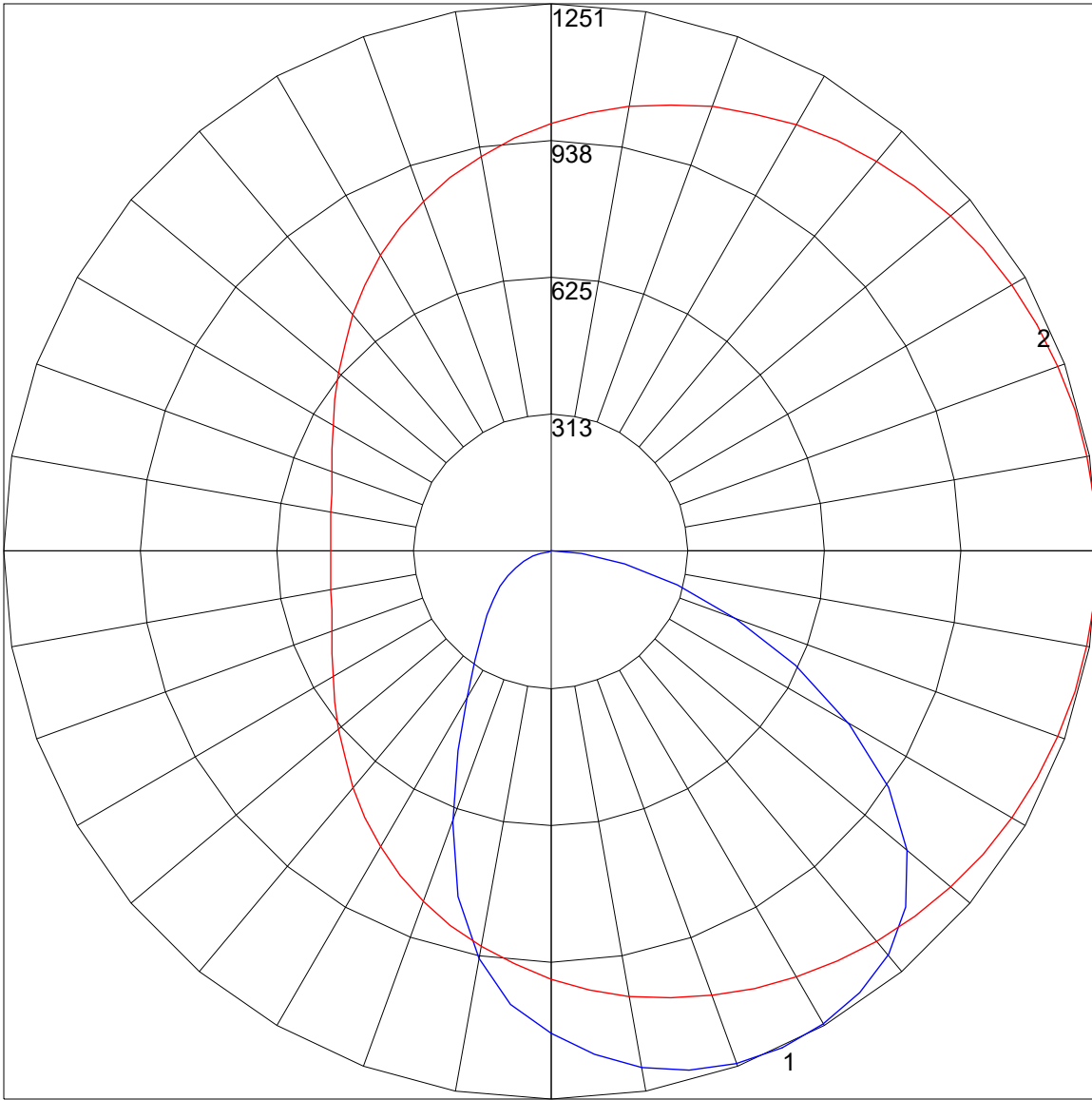
IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_107_WG_SO_35_C1.IES

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	89	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53	51
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	45
6	71	58	49	42	69	57	48	42	55	47	42	53	47	41	52	46	41	39
7	66	52	44	38	64	52	43	37	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	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	52	40	33	27	39	32	27	38	32	27	37	31	27	25

POLAR GRAPH



Maximum Candela = 1250.8 Located At Horizontal Angle = 0, Vertical Angle = 25
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (25) (Through Max. Cd.)