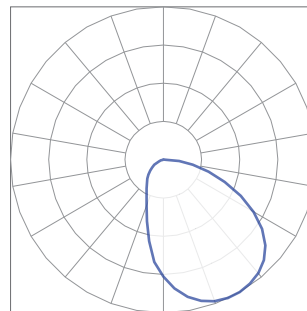


WingRail® | 107

107-WG-X-4-48-X-X-X-X-X-Z-SO-35-WB-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	White Baffle

Performance Summary

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	92	95	97	99
Total Lumens, 4' rail (1219mm)	2214	2284	2330	2377
Lumens per foot (305mm)	553	571	583	594
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_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-SO-35-WB
[LUMINAIRE] WingRail LED, 48", 3500K, 80 CRI, zipper board,
[MORE] white baffle, standard output
[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2324
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	96
Total Luminaire Watts	24.12
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	33484	26445	15252
55	35088	24234	12445
65	33661	20351	9845
75	30106	17572	7499
85	30400	17700	4661

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	903.207	903.207	903.207	903.207	903.207	903.207	903.207	903.207	903.207	903.207
5	995.118	994.823	993.938	992.569	990.315	987.872	984.828	980.910	976.308	971.305
10	1073.116	1072.620	1071.452	1069.198	1065.764	1061.752	1056.843	1050.082	1042.837	1034.412
15	1127.195	1126.617	1125.236	1122.888	1118.970	1113.873	1107.796	1099.571	1090.167	1078.898
20	1161.297	1160.707	1159.433	1157.084	1152.872	1146.995	1139.550	1129.649	1117.012	1102.604
25	1177.758	1177.274	1175.894	1173.156	1168.353	1161.203	1151.503	1138.464	1121.614	1102.309
30	1179.327	1178.643	1176.873	1173.451	1167.079	1157.179	1143.656	1125.236	1102.415	1076.443
35	1167.374	1166.784	1164.046	1158.654	1148.954	1134.251	1114.852	1089.187	1058.802	1026.175
40	1140.918	1139.644	1135.431	1127.006	1112.303	1091.040	1064.100	1030.494	993.253	955.045
45	1096.232	1094.273	1087.512	1074.980	1054.200	1025.302	990.905	950.632	907.715	865.778
50	1028.429	1025.396	1016.086	998.941	972.096	936.719	896.257	851.087	805.126	760.935
55	931.822	928.389	916.435	894.782	864.315	824.820	782.104	735.364	688.235	643.560
60	805.621	801.798	789.349	766.917	734.479	695.091	653.059	607.983	563.497	521.560
65	658.641	654.534	642.286	621.506	591.227	556.842	519.412	479.623	440.435	398.203
70	504.816	501.288	491.187	473.451	449.061	421.425	390.663	360.478	329.220	300.511
75	360.773	358.224	350.484	337.751	320.205	300.027	277.984	255.151	231.433	210.571
80	230.655	229.085	224.188	216.447	205.473	192.729	178.428	163.147	147.854	133.942
85	122.673	121.894	119.735	116.112	110.719	104.253	96.607	88.476	79.567	71.425
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	903.207	903.207	903.207	903.207	903.207	903.207	903.207	903.207	903.207	903.207
5	966.019	960.036	953.770	946.915	939.858	931.728	923.586	915.456	906.441	897.130
10	1024.511	1013.443	1001.785	988.852	973.948	958.184	941.522	924.082	905.072	885.177
15	1065.764	1050.578	1034.022	1015.307	994.634	972.580	947.599	921.332	892.729	861.270
20	1085.163	1065.280	1043.427	1019.520	992.474	964.154	931.917	898.310	860.975	820.124
25	1079.193	1053.221	1025.597	996.003	963.175	928.979	891.360	851.866	808.465	760.840
30	1046.566	1014.422	981.406	946.915	909.969	872.150	830.897	788.665	740.946	689.014
35	990.516	953.381	916.636	879.301	840.207	801.114	758.787	714.785	665.992	612.396
40	914.972	874.604	835.794	796.311	757.808	718.313	675.987	632.681	585.162	533.714
45	822.672	780.735	740.757	700.578	662.074	623.370	583.392	543.024	499.329	452.683
50	716.354	674.512	632.976	593.977	557.231	521.466	485.405	450.040	412.410	373.612
55	599.652	559.190	519.023	483.847	451.020	420.056	389.778	359.888	330.494	299.437
60	481.098	443.763	410.652	381.836	353.422	328.052	303.461	280.628	257.205	233.687
65	372.538	340.300	313.160	288.958	266.515	245.936	227.516	210.075	192.635	175.490
70	274.456	250.054	228.696	209.592	193.024	177.448	163.442	150.214	136.691	124.537
75	191.455	173.720	158.049	143.936	131.782	120.124	109.740	99.557	89.857	80.936
80	121.009	108.961	98.176	88.382	79.756	71.532	63.791	56.829	49.879	43.802
85	63.590	56.239	49.477	43.117	37.725	32.533	27.636	23.128	18.809	15.387
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	903.207	903.207	903.207	903.207	903.207	903.207	903.207	903.207	903.207	903.207
5	888.115	879.206	869.802	860.881	851.677	843.346	835.110	827.664	820.714	814.530
10	864.503	843.830	822.472	801.798	780.240	760.357	741.052	722.632	706.171	690.689
15	830.307	798.471	764.959	732.131	699.209	667.172	637.188	610.143	586.035	563.698
20	780.051	737.913	693.923	651.584	609.753	570.660	535.673	503.541	476.295	452.093
25	713.027	664.128	613.470	566.341	520.982	479.729	444.848	413.684	388.598	366.850
30	637.578	585.256	532.534	484.720	440.636	402.616	371.558	344.902	323.639	305.809
35	560.170	507.754	456.802	412.221	373.317	340.300	314.328	292.380	275.329	261.028

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

40	483.552	434.747	388.893	349.894	316.582	289.348	268.084	250.148	236.330	224.578
45	408.197	366.260	327.072	294.835	267.400	245.641	227.126	212.825	201.155	191.266
50	336.866	302.281	270.822	244.767	222.524	204.789	190.287	177.649	167.359	158.533
55	270.727	243.587	218.890	197.827	181.071	166.474	154.132	142.756	133.753	126.012
60	211.739	191.455	172.457	155.890	142.178	129.824	118.956	109.551	101.999	96.807
65	158.828	143.547	129.139	116.596	104.548	95.733	85.833	78.293	72.511	67.708
70	112.584	101.020	90.435	80.346	70.352	62.316	55.849	50.457	46.539	43.306
75	72.405	64.180	55.366	47.224	40.073	34.786	30.668	27.435	24.886	23.022
80	38.114	31.742	25.382	20.379	16.662	14.007	11.953	10.384	9.110	8.236
85	11.658	8.036	5.581	4.024	2.938	1.959	0.779	0.389	0.201	0.201
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	903.207	903.207	903.207	903.207	903.207	903.207	903.207
5	808.760	804.052	799.934	796.701	794.447	792.984	792.287
10	676.872	665.308	655.797	647.867	642.380	638.946	637.672
15	544.299	528.133	515.294	504.816	497.559	493.051	491.682
20	431.620	415.454	402.415	392.421	385.565	381.447	380.172
25	349.209	335.203	324.524	315.803	310.210	306.694	305.703
30	291.602	280.427	271.707	264.851	260.343	257.594	256.721
35	249.464	240.555	233.498	227.610	223.893	221.734	220.861
40	214.878	207.338	201.355	196.458	193.131	191.172	190.287
45	182.935	176.375	170.888	166.380	163.442	161.577	161.082
50	151.087	145.305	140.514	136.786	134.237	132.573	132.278
55	119.829	114.932	111.014	108.171	106.023	104.843	104.454
60	91.025	87.202	84.264	82.010	80.641	79.662	79.367
65	64.275	61.537	59.472	57.808	56.734	56.050	55.849
70	40.863	39.093	37.524	36.356	35.766	35.270	35.270
75	21.559	20.379	19.494	18.715	18.325	18.231	18.231
80	7.446	6.761	6.266	5.876	5.688	5.581	5.487
85	0.201	0.201	0.201	0.201	0.201	0.201	0.201
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	324.24	N.A.	14.00
0-30	677.49	N.A.	29.10
0-40	1095.86	N.A.	47.20
0-60	1885.71	N.A.	81.10
0-80	2282.09	N.A.	98.20
0-90	2324.17	N.A.	100.00
10-90	2238.96	N.A.	96.30
20-40	771.62	N.A.	33.20
20-50	1196.28	N.A.	51.50
40-70	1047.11	N.A.	45.10
60-80	396.37	N.A.	17.10
70-80	139.12	N.A.	6.00
80-90	42.08	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	2324.17	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	85.20
10-20	239.04
20-30	353.25
30-40	418.37
40-50	424.66
50-60	365.19
60-70	257.26
70-80	139.12
80-90	42.08
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

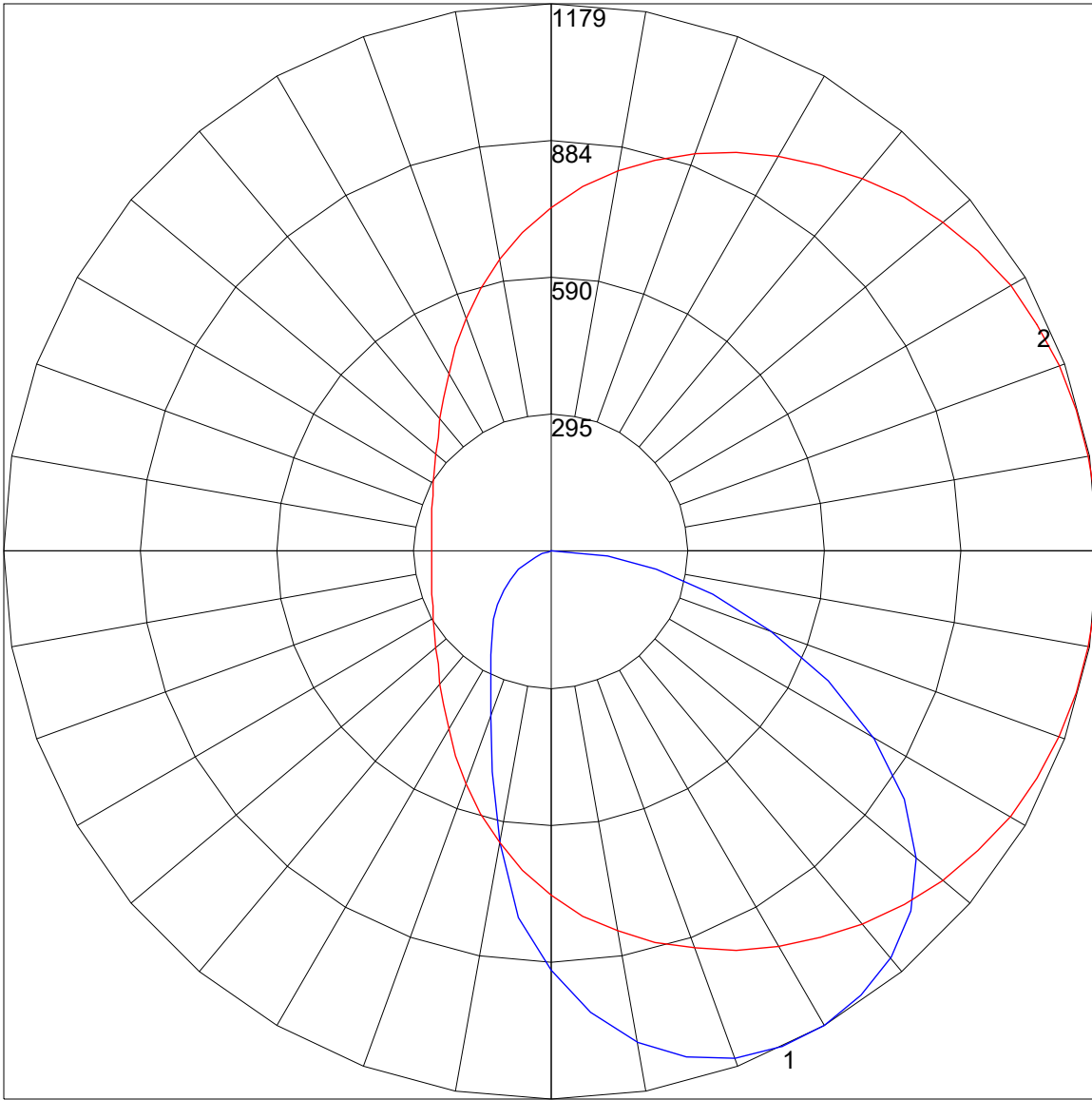
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PHOTOMETRIC FILENAME : VODE_107_WG_SO_35_WB.IES

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 = 1179.327 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.)