

IES Report

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

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

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	106	109	111	111
Total Lumens, 4' rail length (1219mm)	2517	2596	2649	2649
Lumens per foot (305mm)	629	649	662	662
Input Power (W), 4' rail length (1219mm)	23.9	23.9	23.9	23.9
Watts per foot (305mm)	6.0	6.0	6.0	6.0
CRI	82	82	82	82

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_SO_35_WB.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L121911519 (SOURCE REPORT FOR REFERENCE)
[TESTLAB] REPORT BASED ON DATA FROM NVLAP ACCREDITED LAB
[ISSUE DATE] 12/23/2019
[MANUFAC] Vode Lighting
[LUMCAT] 107-WG-48-Z-SO-35-WB-AL
[LUMINAIRE] WingRail LED, 48", 3500K, 80 CRI, zipper board, white baffle,
[MORE] standard output, clear anodized finish
[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2649
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	111
Total Luminaire Watts	23.92
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.62
Spacing Criterion (90-270)	1.16
Spacing Criterion (Diagonal)	1.22
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.11 ft
Luminous Width (90-270)	3.84 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	41097	30739	21425
55	39388	26465	17197
65	34590	21942	13347
75	28184	17914	9927
85	21686	15248	5083

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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	1180.88	1180.88	1180.88	1180.88	1180.88	1180.88	1180.88	1180.88	1180.88	1180.88
5	1240.04	1238.88	1238.88	1237.72	1235.40	1233.08	1230.76	1227.28	1224.96	1220.32
10	1293.40	1292.24	1289.92	1287.60	1284.12	1278.32	1273.68	1266.72	1258.60	1250.48
15	1329.36	1328.20	1324.72	1320.08	1314.28	1306.16	1296.88	1286.44	1274.84	1262.08
20	1347.92	1346.76	1342.12	1335.16	1325.88	1314.28	1301.52	1286.44	1269.04	1251.64
25	1347.92	1345.60	1339.80	1330.52	1317.76	1302.68	1284.12	1263.24	1241.20	1218.00
30	1330.52	1327.04	1318.92	1306.16	1288.76	1267.88	1244.68	1216.84	1187.84	1158.84
35	1292.24	1287.60	1277.16	1260.92	1237.72	1211.04	1180.88	1147.24	1112.44	1075.32
40	1229.60	1224.96	1211.04	1190.16	1162.32	1129.84	1091.56	1052.12	1012.68	973.24
45	1141.44	1135.64	1119.40	1095.04	1063.72	1023.12	981.36	937.28	894.36	853.76
50	1026.60	1019.64	1002.24	975.56	940.76	897.84	853.76	808.52	766.76	726.16
55	887.40	881.60	863.04	835.20	800.40	758.64	716.88	673.96	634.52	596.24
60	733.12	727.32	711.08	685.56	651.92	617.12	578.84	541.72	505.76	473.28
65	574.20	568.40	555.64	534.76	508.08	477.92	446.60	416.44	385.12	364.24
70	421.08	417.60	407.16	392.08	374.68	352.64	329.44	306.24	284.20	265.64
75	286.52	284.20	277.24	267.96	255.20	240.12	225.04	209.96	194.88	182.12
80	169.36	168.20	164.72	158.92	153.12	145.00	135.72	127.60	118.32	110.20
85	74.24	73.08	73.08	70.76	69.60	67.28	63.80	60.32	55.68	52.20
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	1180.88	1180.88	1180.88	1180.88	1180.88	1180.88	1180.88	1180.88	1180.88	1180.88
5	1216.84	1212.20	1207.56	1202.92	1198.28	1192.48	1186.68	1182.04	1176.24	1170.44
10	1242.36	1233.08	1222.64	1212.20	1201.76	1190.16	1178.56	1166.96	1155.36	1143.76
15	1248.16	1234.24	1218.00	1202.92	1186.68	1170.44	1154.20	1136.80	1119.40	1103.16
20	1233.08	1213.36	1192.48	1171.60	1150.72	1128.68	1107.80	1086.92	1064.88	1044.00
25	1193.64	1166.96	1141.44	1115.92	1090.40	1064.88	1040.52	1016.16	991.80	967.44
30	1128.68	1097.36	1067.20	1037.04	1009.20	981.36	954.68	929.16	903.64	876.96
35	1041.68	1005.72	973.24	941.92	912.92	885.08	858.40	832.88	806.20	779.52
40	934.96	897.84	864.20	832.88	805.04	778.36	751.68	727.32	701.80	676.28
45	814.32	779.52	745.88	715.72	689.04	663.52	639.16	617.12	595.08	570.72
50	686.72	653.08	621.76	593.92	569.56	547.52	526.64	506.92	487.20	465.16
55	561.44	530.12	502.28	477.92	457.04	437.32	418.76	402.52	387.44	370.04
60	443.12	416.44	392.08	372.36	354.96	338.72	323.64	310.88	296.96	284.20
65	338.72	317.84	299.28	281.88	266.80	254.04	242.44	232.00	221.56	209.96
70	248.24	232.00	216.92	204.16	192.56	182.12	172.84	163.56	155.44	147.32
75	169.36	158.92	148.48	139.20	129.92	120.64	113.68	106.72	100.92	93.96
80	102.08	95.12	89.32	82.36	76.56	70.76	63.80	58.00	53.36	48.72
85	47.56	44.08	40.60	37.12	33.64	30.16	25.52	20.88	17.40	16.24
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	1180.88	1180.88	1180.88	1180.88	1180.88	1180.88	1180.88	1180.88	1180.88	1180.88
5	1164.64	1158.84	1154.20	1148.40	1143.76	1139.12	1134.48	1129.84	1126.36	1122.88
10	1132.16	1120.56	1108.96	1097.36	1084.60	1074.16	1063.72	1053.28	1044.00	1035.88
15	1085.76	1067.20	1048.64	1031.24	1012.68	995.28	977.88	960.48	944.24	929.16
20	1021.96	998.76	975.56	951.20	925.68	900.16	875.80	849.12	824.76	801.56
25	941.92	915.24	886.24	856.08	823.60	792.28	759.80	726.16	693.68	664.68
30	849.12	818.96	785.32	751.68	713.40	675.12	638.00	600.88	566.08	535.92
35	750.52	718.04	682.08	643.80	602.04	562.60	524.32	488.36	455.88	428.04

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CANDELA TABULATION - (Cont.)

40	647.28	613.64	578.84	539.40	498.80	460.52	426.88	395.56	368.88	345.68
45	542.88	511.56	479.08	443.12	407.16	374.68	345.68	319.00	298.12	279.56
50	441.96	415.28	386.28	357.28	327.12	300.44	277.24	256.36	240.12	226.20
55	350.32	327.12	305.08	280.72	257.52	236.64	218.08	203.00	191.40	179.80
60	267.96	250.56	233.16	214.60	197.20	182.12	168.20	156.60	147.32	139.20
65	198.36	185.60	172.84	158.92	146.16	134.56	124.12	116.00	109.04	103.24
70	139.20	128.76	119.48	110.20	100.92	93.96	85.84	80.04	75.40	70.76
75	88.16	82.36	75.40	69.60	62.64	58.00	52.20	48.72	45.24	42.92
80	46.40	42.92	39.44	34.80	31.32	27.84	25.52	23.20	22.04	19.72
85	15.08	13.92	11.60	10.44	8.12	6.96	5.80	5.80	4.64	4.64
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>150</u>	<u>155</u>	<u>160</u>	<u>165</u>	<u>170</u>	<u>175</u>	<u>180</u>
0	1180.88	1180.88	1180.88	1180.88	1180.88	1180.88	1180.88
5	1119.40	1117.08	1113.60	1112.44	1111.28	1110.12	1110.12
10	1027.76	1020.80	1015.00	1010.36	1006.88	1004.56	1004.56
15	915.24	902.48	892.04	882.76	876.96	873.48	872.32
20	780.68	762.12	745.88	733.12	723.84	718.04	715.72
25	638.00	614.80	595.08	581.16	569.56	562.60	560.28
30	509.24	486.04	467.48	453.56	443.12	437.32	435.00
35	404.84	386.28	370.04	359.60	351.48	345.68	344.52
40	327.12	312.04	300.44	291.16	285.36	280.72	279.56
45	265.64	254.04	244.76	237.80	233.16	230.84	229.68
50	214.60	206.48	199.52	194.88	191.40	189.08	187.92
55	171.68	164.72	160.08	156.60	153.12	151.96	150.80
60	133.40	127.60	124.12	120.64	119.48	118.32	117.16
65	98.60	95.12	92.80	90.48	89.32	88.16	88.16
70	68.44	64.96	63.80	61.48	61.48	60.32	60.32
75	40.60	39.44	38.28	37.12	37.12	35.96	35.96
80	19.72	18.56	17.40	17.40	17.40	16.24	16.24
85	3.48	3.48	3.48	3.48	3.48	2.32	2.32
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	423.70	N.A.	16.00
0-30	871.03	N.A.	32.90
0-40	1370.09	N.A.	51.70
0-60	2225.28	N.A.	84.00
0-80	2614.28	N.A.	98.70
0-90	2649.23	N.A.	100.00
10-90	2537.8	N.A.	95.80
20-40	946.39	N.A.	35.70
20-50	1419.68	N.A.	53.60
40-70	1111.78	N.A.	42.00
60-80	389.00	N.A.	14.70
70-80	132.41	N.A.	5.00
80-90	34.95	N.A.	1.30
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	2649.23	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	111.43
10-20	312.27
20-30	447.33
30-40	499.06
40-50	473.29
50-60	381.90
60-70	256.58
70-80	132.41
80-90	34.95
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

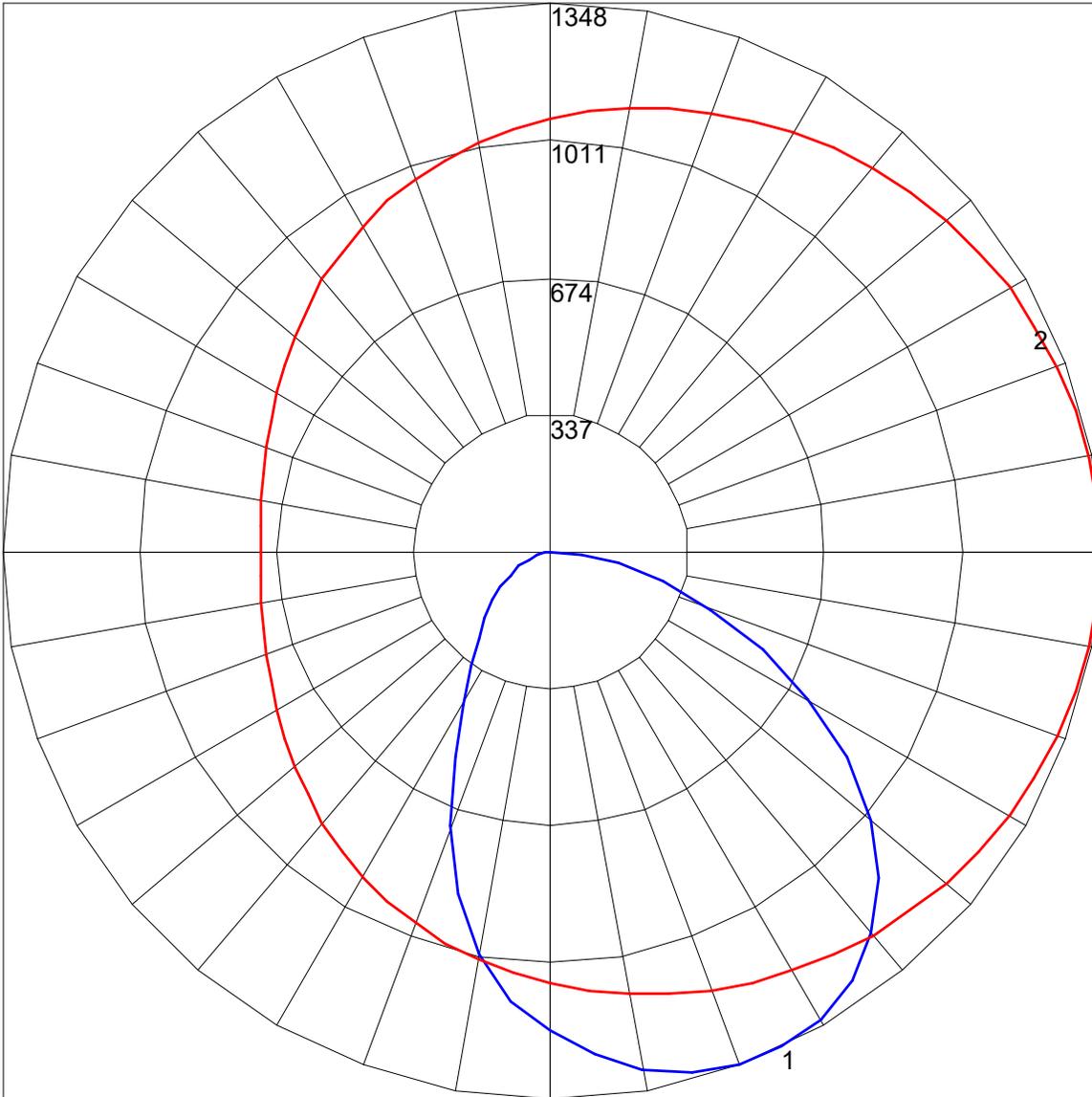
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	116	116	116	116	111	111	111	106	106	106	102	102	102	100	
1	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86	
2	101	93	87	81	98	91	85	80	88	83	78	84	80	77	81	78	75	73	
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	63	
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56	54	
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50	48	
6	73	60	52	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42	
7	68	55	46	40	66	54	46	40	52	45	40	51	45	40	50	44	39	38	
8	63	50	42	36	62	49	42	36	48	41	36	47	41	36	46	40	36	34	
9	59	46	38	33	58	46	38	33	45	38	33	43	37	33	42	37	32	31	
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28	

POLAR GRAPH



Maximum Candela = 1347.92 Located At Horizontal Angle = 0, Vertical Angle = 20
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Horizontal Cone Through Vertical Angle (20) (Through Max. Cd.)