

IES Report

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

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

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	66	68	69	69
Total Lumens, 4' rail length (1219mm)	1574	1623	1657	1657
Lumens per foot (305mm)	393	406	414	414
Input Power (W), 4' rail length (1219mm)	24.1	24.1	24.1	24.1
Watts per foot (305mm)	6.1	6.1	6.1	6.1
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_BB.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L121911520 (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-BB-AL
[LUMINAIRE] WingRail LED, 48", 3500K, 80 CRI, zipper board, black baffle,
[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1657
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	69
Total Luminaire Watts	23.92
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.80
Spacing Criterion (90-270)	1.06
Spacing Criterion (Diagonal)	1.14
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	34386	22417	10723
55	33328	18524	7359
65	29229	14691	5149
75	23510	11563	3682
85	16305	9545	1904

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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	822.950	822.950	822.950	822.950	822.950	822.950	822.950	822.950	822.950	822.950
5	899.244	898.942	898.165	896.610	894.569	892.040	888.537	884.941	880.568	875.997
10	970.224	969.737	967.591	964.482	959.622	953.590	946.792	938.614	929.183	918.975
15	1021.751	1020.487	1016.798	1012.320	1003.957	994.816	983.634	970.514	956.118	941.050
20	1057.537	1055.298	1050.345	1042.272	1030.706	1017.088	1001.045	982.566	962.058	940.656
25	1075.819	1073.000	1065.994	1054.916	1038.873	1020.000	998.319	973.333	945.910	917.908
30	1076.990	1073.777	1063.662	1048.791	1027.586	1002.507	974.307	941.734	907.120	871.717
35	1059.092	1054.138	1041.982	1022.343	995.303	963.995	928.603	888.247	847.125	804.042
40	1019.222	1013.202	998.029	973.820	942.314	901.958	859.084	813.276	766.319	720.418
45	955.051	949.019	929.868	901.958	865.105	820.480	772.444	720.812	670.051	622.607
50	864.815	858.110	838.367	807.928	767.479	719.838	669.958	617.839	566.985	519.239
55	750.856	744.337	724.698	694.074	653.718	607.527	559.688	510.203	461.773	417.333
60	620.948	614.139	596.159	568.342	531.686	490.065	447.679	404.399	363.857	325.832
65	485.205	479.474	464.394	440.290	410.141	375.910	343.244	307.748	274.108	243.867
70	357.048	352.768	341.202	323.605	301.043	275.860	249.794	223.741	197.676	174.928
75	239.006	236.385	228.891	217.419	202.548	185.913	168.513	151.009	133.122	117.554
80	138.272	136.903	133.017	127.090	119.120	110.165	100.352	90.236	79.634	70.308
85	55.819	55.518	54.555	53.093	50.854	48.128	44.822	41.134	36.760	32.677
90	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	822.950	822.950	822.950	822.950	822.950	822.950	822.950	822.950	822.950	822.950
5	870.557	865.012	859.084	852.368	845.953	839.248	831.558	824.563	817.371	810.167
10	908.187	896.610	883.189	870.070	856.068	841.870	827.184	811.536	795.586	780.320
15	924.126	906.436	887.087	867.054	846.928	825.827	804.437	781.585	757.956	735.394
20	918.291	893.699	868.411	841.963	816.489	789.264	762.132	734.326	703.992	674.818
25	888.641	857.426	826.210	794.032	763.210	731.113	699.608	667.719	632.525	599.070
30	835.351	797.918	761.262	724.803	690.374	655.272	621.342	587.018	549.968	513.892
35	762.619	720.708	680.653	641.851	606.170	570.488	535.085	500.575	464.104	428.028
40	674.726	630.959	590.022	550.838	514.773	479.474	445.243	412.276	380.584	345.680
45	575.928	532.858	491.724	453.606	419.479	389.041	356.665	327.097	297.830	266.522
50	473.245	432.413	390.990	361.038	330.507	302.505	275.570	250.873	225.585	200.204
55	376.988	339.544	306.484	277.031	250.769	226.560	204.775	185.136	165.787	146.636
60	291.032	257.195	229.378	205.459	184.939	165.590	149.350	134.479	120.083	106.476
65	216.154	190.286	167.736	148.190	132.240	118.239	106.186	95.387	85.469	76.038
70	154.512	135.940	119.410	104.632	92.475	82.267	73.706	65.830	58.731	52.409
75	103.553	90.816	79.738	69.820	61.260	53.580	47.258	42.108	37.433	33.547
80	61.840	53.870	46.968	40.936	35.682	30.728	26.158	22.759	19.836	17.702
85	28.582	24.696	21.298	18.189	15.556	13.027	10.602	8.166	6.519	5.928
90	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>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	822.950	822.950	822.950	822.950	822.950	822.950	822.950	822.950	822.950	822.950
5	802.685	795.586	787.907	780.900	773.801	767.479	761.354	755.230	749.882	744.824
10	764.370	748.130	731.798	715.952	699.608	684.736	670.445	656.050	643.510	632.038
15	711.672	686.685	661.687	637.095	612.097	588.468	566.103	542.961	523.520	505.331
20	644.484	612.492	579.919	548.123	514.669	483.755	454.476	425.500	400.803	378.438
25	564.259	526.733	488.801	451.855	413.447	379.030	346.840	315.822	290.151	267.890
30	476.354	436.299	396.047	357.338	318.153	283.933	253.402	225.005	202.640	183.872
35	386.616	351.213	311.054	273.621	237.255	206.724	180.960	157.818	140.209	125.825

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CANDELA TABULATION - (Cont.)

40	309.012	271.776	236.675	203.708	172.979	148.086	127.670	110.850	99.377	87.905
45	235.700	204.392	175.508	149.164	125.825	106.476	91.884	79.738	70.783	63.696
50	175.798	150.916	127.960	108.321	94.807	78.660	67.872	59.508	53.383	48.720
55	128.447	110.850	95.387	80.516	68.452	58.928	51.724	45.994	41.714	38.408
60	94.807	81.188	69.716	59.995	51.632	45.310	40.159	36.076	32.967	30.438
65	67.094	58.441	50.854	44.532	38.895	34.417	30.728	27.515	25.276	23.536
70	46.574	40.844	36.076	31.888	27.910	24.604	21.878	19.743	18.282	17.214
75	29.754	26.541	23.629	20.613	17.702	15.463	13.908	12.841	12.052	11.577
80	15.950	14.291	12.354	10.405	8.944	7.969	7.389	7.006	6.809	6.705
85	5.638	4.663	3.886	3.306	3.109	3.016	3.016	2.923	2.819	2.819
90	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>150</u>	<u>155</u>	<u>160</u>	<u>165</u>	<u>170</u>	<u>175</u>	<u>180</u>
0	822.950	822.950	822.950	822.950	822.950	822.950	822.950
5	740.648	736.855	733.642	730.928	729.362	728.492	727.912
10	621.725	612.874	605.195	599.268	594.987	592.366	591.588
15	489.288	475.484	463.327	454.291	447.574	443.781	442.030
20	359.287	342.850	328.848	318.548	311.356	306.681	305.324
25	249.122	233.752	221.212	211.781	205.262	201.283	200.112
30	168.606	156.264	146.531	139.432	134.676	131.660	130.883
35	114.446	105.792	99.864	94.610	91.304	89.355	88.682
40	80.028	74.089	69.623	66.514	64.473	63.208	62.814
45	58.441	54.648	51.829	49.787	48.523	47.746	47.456
50	45.112	42.491	40.554	39.185	38.315	37.828	37.723
55	35.983	34.324	33.060	32.086	31.413	31.111	30.926
60	28.687	27.422	26.541	25.868	25.474	25.184	25.091
65	22.272	21.495	20.903	20.416	20.230	20.033	20.033
70	16.530	16.043	15.753	15.463	15.358	15.358	15.358
75	11.275	11.090	10.985	10.892	10.892	10.892	10.892
80	6.705	6.705	6.705	6.705	6.705	6.809	6.809
85	2.622	2.332	2.042	1.844	1.659	1.554	1.554
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	285.86	N.A.	17.30
0-30	574.26	N.A.	34.70
0-40	887.11	N.A.	53.50
0-60	1404.82	N.A.	84.80
0-80	1635.24	N.A.	98.70
0-90	1656.61	N.A.	100.00
10-90	1579.66	N.A.	95.40
20-40	601.25	N.A.	36.30
20-50	890.44	N.A.	53.80
40-70	669.36	N.A.	40.40
60-80	230.42	N.A.	13.90
70-80	78.78	N.A.	4.80
80-90	21.37	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	1656.61	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	76.96
10-20	208.90
20-30	288.40
30-40	312.85
40-50	289.19
50-60	228.53
60-70	151.64
70-80	78.78
80-90	21.37
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

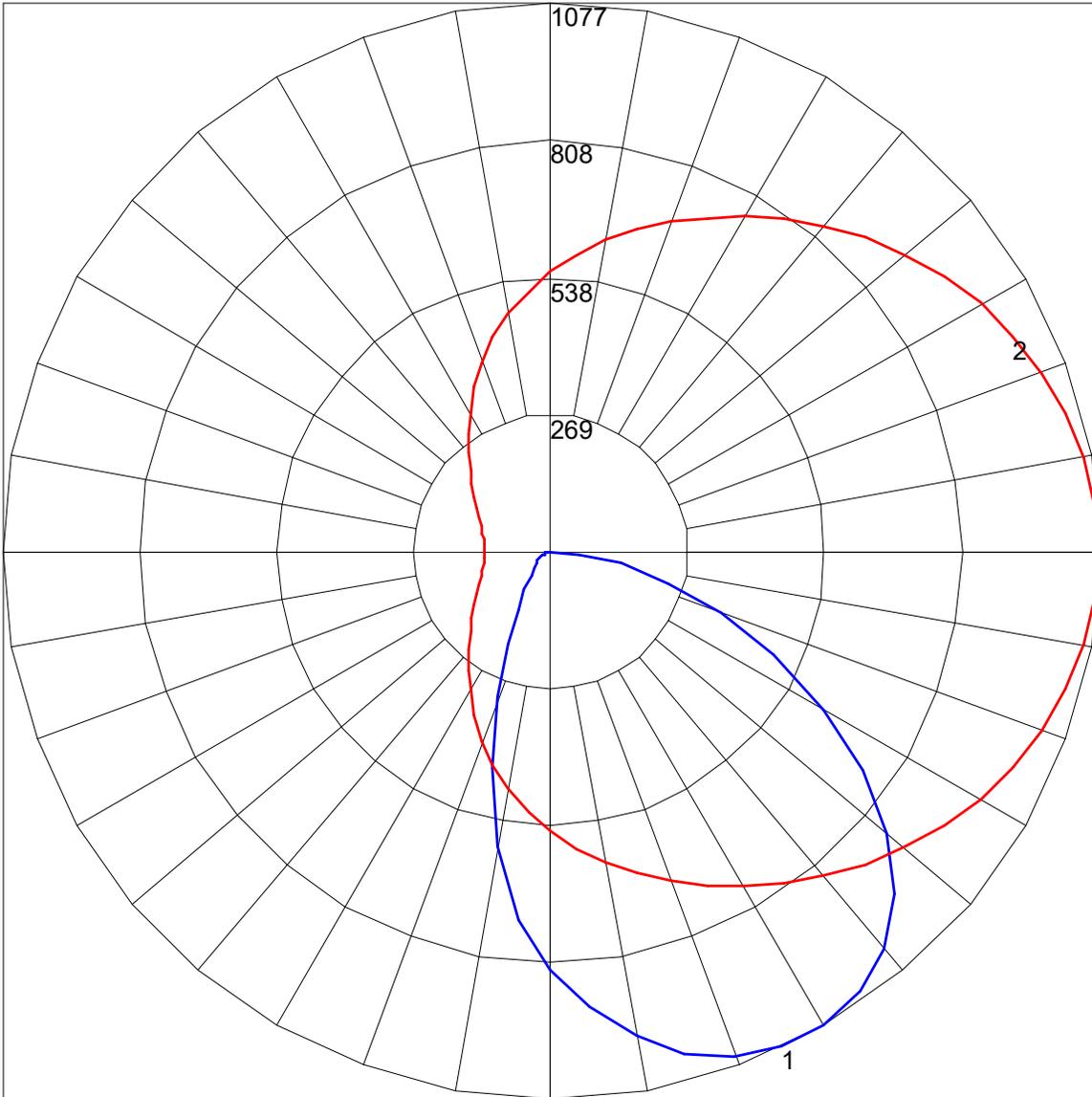
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	0
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86	0
2	101	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76	74	0
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	73	69	66	63	0
4	86	74	66	60	83	73	66	60	71	64	59	68	63	58	66	61	57	55	0
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49	0
6	73	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43	0
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39	0
8	64	51	43	38	62	50	43	37	49	42	37	48	42	37	47	41	37	35	0
9	60	47	39	34	59	47	39	34	46	39	34	44	38	34	43	38	34	32	0
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	41	35	31	29	0

POLAR GRAPH



Maximum Candela = 1076.99 Located At Horizontal Angle = 0, Vertical Angle = 30
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Horizontal Cone Through Vertical Angle (30) (Through Max. Cd.)