

IES Report

RaceRail® | 107 | 120° Batwing Lens | 90 CRI | LO

107-RR-XX-4-48-XX-XX-XX-XX-X-X-Z-LO-359-G1-X-XX-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	76	79	80	82
Total Lumens, 4' rail length (1219mm)	1132	1168	1192	1216
Lumens per foot (305mm)	283	292	298	304
Input Power (W), 4' rail length (1219mm)	15.0	15.0	15.0	15.0
Watts per foot (305mm)	3.8	3.8	3.8	3.8
CRI	96	96	96	96

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_RR_LO_359_G1.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L011800113 (SOURCE REPORT FOR REFERENCE)
[TESTLAB] REPORT BASED ON DATA PRODUCED BY NVLAP ACCREDITED LAB
[ISSUEDATE] 1/12/2018
[MANUFAC] Vode Lighting
[LUMCAT] 107-RR-48-Z-LO-359-G1
[LUMINAIRE] RaceRail LED, 48", 3500K, 90 CRI, zipper board,
[MORE] 120° batwing lens, low output
[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1192
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	80
Total Luminaire Watts	14.95
Ballast Factor	1.00
CIE Type	Indirect
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.08 ft
Luminous Width (90-270)	3.85 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	0	0	0
55	0	0	0
65	0	0	0
75	0	0	0
85	0	0	0

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	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
15	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
25	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
30	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
35	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
40	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
45	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
50	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
55	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
60	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
65	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
70	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
75	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
80	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
85	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95	28.110	28.235	28.605	29.145	29.790	30.455	30.785	30.725	29.915	28.170
100	70.830	70.955	71.265	71.620	71.995	72.140	71.825	70.725	68.465	64.685
105	118.035	118.120	118.450	118.910	119.200	119.220	118.430	116.565	112.930	106.930
110	170.020	170.120	170.455	170.705	170.830	170.410	169.020	166.155	160.905	152.020
115	224.450	224.510	224.675	224.740	224.405	223.285	220.755	216.165	208.300	196.195
120	279.170	279.130	278.880	278.235	276.845	274.185	269.805	262.520	251.475	236.030
125	328.620	328.390	327.370	325.795	322.930	318.445	311.865	301.920	287.765	269.145
130	367.935	367.415	365.820	363.035	358.655	352.285	343.480	330.900	314.045	293.410
135	393.430	392.845	390.625	386.870	381.305	373.395	362.850	348.775	330.945	309.685
140	406.880	406.070	403.540	399.240	392.910	384.170	373.045	358.285	340.140	319.050
145	410.700	409.660	406.920	402.335	395.670	386.455	374.785	359.735	341.635	321.520
150	404.305	403.415	400.380	395.440	388.175	378.420	366.460	351.930	334.990	317.075
155	384.210	383.255	380.370	375.370	368.330	359.175	348.420	335.530	321.375	307.090
160	351.785	350.975	348.360	344.415	338.685	331.485	323.450	314.230	304.390	294.655
165	315.375	314.940	313.420	310.975	307.695	303.560	298.955	293.620	288.160	282.635
170	286.645	286.455	285.730	284.690	283.280	281.515	279.545	277.300	274.955	272.630
175	269.660	269.725	269.560	269.350	269.100	268.770	268.335	267.920	267.480	266.940
180	265.000	265.000	265.000	265.000	265.000	265.000	265.000	265.000	265.000	265.000

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>
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
15	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
25	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
30	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
35	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
40	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
45	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
50	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
55	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
60	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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CANDELA TABULATION - (Cont.)

65	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
70	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
75	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
80	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
85	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95	25.490	22.255	19.035	16.565	15.050	14.220	13.745	13.430	13.080
100	58.935	52.085	45.340	40.190	36.995	35.250	34.255	33.670	33.340
105	97.650	86.565	75.815	67.300	62.010	59.020	57.400	56.570	56.215
110	138.795	123.290	107.780	95.740	87.875	83.535	81.270	80.235	79.880
115	178.760	158.705	139.150	123.580	113.385	107.385	104.210	102.780	102.425
120	214.610	191.190	168.255	149.735	137.320	129.765	125.820	123.995	123.435
125	245.290	219.010	193.620	173.110	158.975	150.235	145.460	143.195	142.575
130	267.710	241.075	214.690	193.685	178.365	168.690	163.250	160.675	159.930
135	283.905	257.685	232.585	211.535	196.010	185.795	179.735	176.805	175.870
140	294.530	269.515	245.915	226.650	211.910	201.740	195.325	192.105	191.070
145	298.975	276.680	255.920	239.065	225.775	216.165	210.000	206.740	205.515
150	298.060	279.230	262.480	248.425	237.445	229.015	223.495	220.360	219.300
155	292.290	278.590	266.235	255.400	246.805	240.245	235.785	233.125	232.090
160	284.980	275.745	267.360	260.050	254.010	249.380	246.310	244.255	243.670
165	276.845	271.655	266.860	262.810	259.490	256.645	254.675	253.365	252.930
170	270.345	268.210	266.215	264.410	262.830	261.525	260.570	259.965	259.865
175	266.380	265.945	265.510	265.115	264.765	264.370	264.200	263.995	264.015
180	265.000	265.000	265.000	265.000	265.000	265.000	265.000	265.000	265.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	0.00	N.A.	0.00
0-30	0.00	N.A.	0.00
0-40	0.00	N.A.	0.00
0-60	0.00	N.A.	0.00
0-80	0.00	N.A.	0.00
0-90	0.00	N.A.	0.00
10-90	0.00	N.A.	0.00
20-40	0.00	N.A.	0.00
20-50	0.00	N.A.	0.00
40-70	0.00	N.A.	0.00
60-80	0.00	N.A.	0.00
70-80	0.00	N.A.	0.00
80-90	0.00	N.A.	0.00
90-110	128.66	N.A.	10.80
90-120	301.72	N.A.	25.30
90-130	521.93	N.A.	43.80
90-150	943.47	N.A.	79.20
90-180	1191.84	N.A.	100.00
110-180	1063.18	N.A.	89.20
0-180	1191.84	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	0.00
10-20	0.00
20-30	0.00
30-40	0.00
40-50	0.00
50-60	0.00
60-70	0.00
70-80	0.00
80-90	0.00
90-100	28.35
100-110	100.30
110-120	173.06
120-130	220.22
130-140	225.89
140-150	195.65
150-160	141.93
160-170	80.76
170-180	25.67

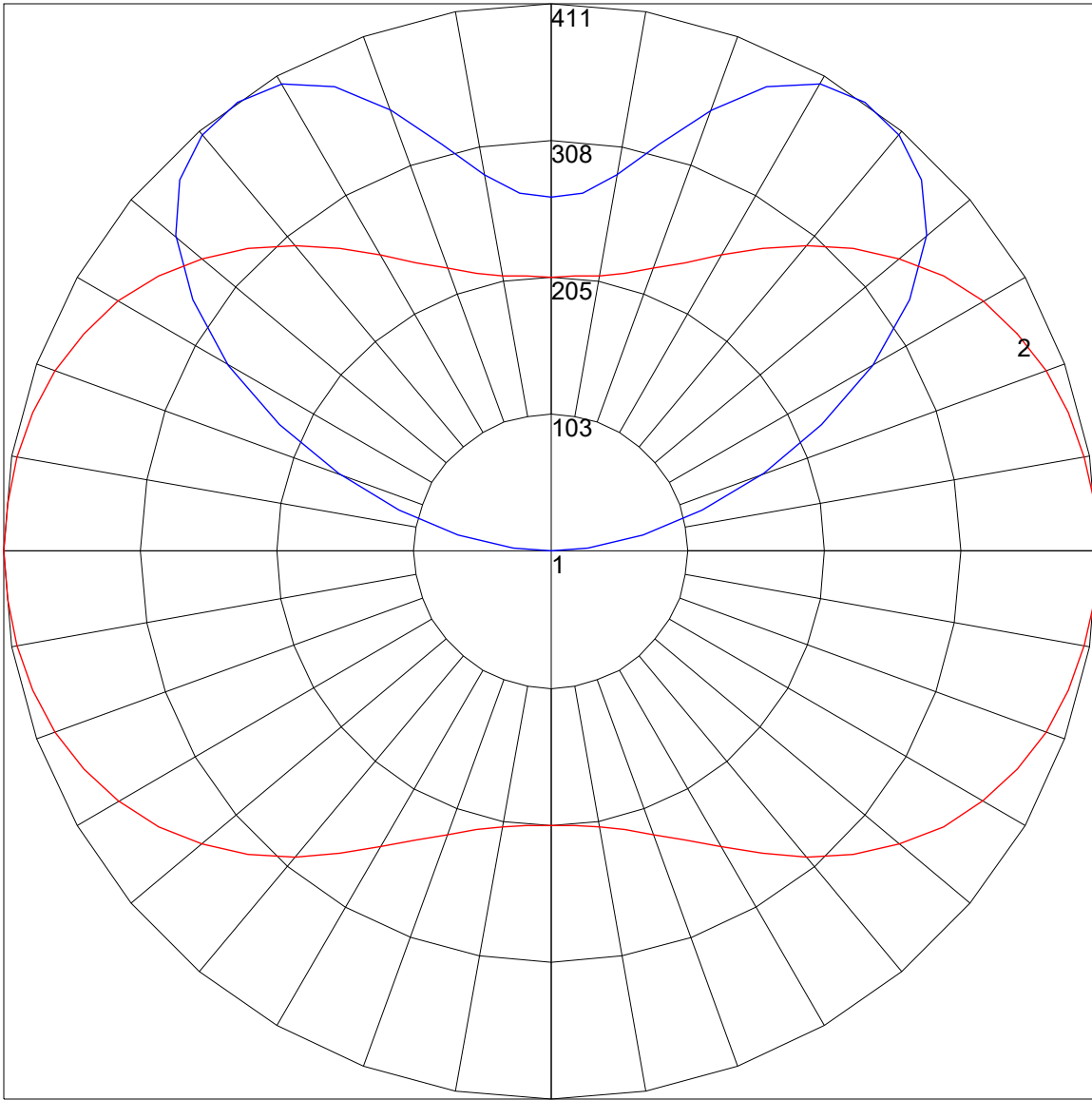
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	
0	95	95	95	95	81	81	81	81	56	56	56	32	32	32	10	10	10	0
1	87	83	79	76	74	71	68	65	48	47	45	28	27	26	9	9	8	0
2	79	72	66	62	67	62	57	53	42	40	37	24	23	22	8	7	7	0
3	72	63	56	51	61	54	49	44	37	34	31	21	20	18	7	6	6	0
4	65	56	48	43	56	48	42	37	33	29	26	19	17	16	6	6	5	0
5	60	49	42	36	51	42	36	32	29	25	22	17	15	13	5	5	4	0
6	55	44	36	31	47	38	32	27	26	22	19	15	13	11	5	4	4	0
7	50	39	32	27	43	34	28	23	23	19	17	14	11	10	4	4	3	0
8	47	35	28	23	40	30	24	20	21	17	14	12	10	9	4	3	3	0
9	43	32	25	20	37	27	22	18	19	15	13	11	9	8	4	3	3	0
10	40	29	22	18	34	25	19	16	17	14	11	10	8	7	3	3	2	0

POLAR GRAPH



Maximum Candela = 410.7 Located At Horizontal Angle = 0, Vertical Angle = 145
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (145) (Through Max. Cd.)