

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	85	87	89	90
Total Lumens, 4' rail length (1219mm)	1260	1300	1327	1340
Lumens per foot (305mm)	315	325	332	335
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	94	94	94	94

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] L121911515R01 (SOURCE REPORT FOR REFERENCE)

[TESTLAB] REPORT BASED ON DATA FROM NVLAP ACCREDITED LAB

[ISSUE DATE] 1/14/2020

[MANUFAC] Vode Lighting

[LUMCAT] 107-RR-48-Z-LO-359-G1-AL

[LUMINAIRE] RaceRail LED, 48", 3500K, 90 CRI, zipper board, 120° batwing lens,

[MORE] low 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	1326
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	96
Total Luminaire Watts	13.82
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)	0.07 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	0	0	0
55	0	0	0
65	0	0	0
75	0	0	0
85	0	0	0

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_107_RR_LO_359_G1.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	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	31.225	31.225	31.160	31.055	30.825	30.470	29.925	29.255	28.355	26.845
100	77.540	77.560	77.705	77.790	77.725	77.180	76.030	74.120	71.020	66.765
105	130.555	130.495	130.470	130.370	129.905	128.945	127.140	123.890	119.135	112.470
110	187.640	187.620	187.495	187.115	186.110	184.520	181.625	177.035	170.225	160.940
115	245.230	245.185	244.640	243.805	242.125	239.255	235.000	228.650	219.830	208.345
120	300.090	299.735	298.895	297.280	294.770	290.620	284.835	276.785	265.975	252.015
125	349.000	348.540	347.240	344.875	341.310	335.905	328.840	319.245	306.460	290.075
130	389.655	389.155	387.455	384.625	380.270	373.875	365.345	353.845	339.050	320.775
135	421.720	421.005	418.995	415.390	409.920	402.295	392.045	378.615	362.080	342.675
140	442.045	441.145	438.360	433.935	427.505	418.490	406.965	392.630	375.595	356.125
145	448.500	447.370	444.375	439.425	432.470	423.040	411.075	397.035	380.580	361.785
150	442.215	441.270	438.275	433.225	426.265	417.065	405.980	392.735	377.525	361.030
155	424.695	423.920	421.050	416.460	410.150	401.980	392.190	380.790	368.175	354.430
160	397.830	397.095	394.750	391.020	385.885	379.305	371.655	363.275	353.990	344.455
165	366.100	365.580	364.155	361.870	358.660	354.640	350.070	344.850	339.360	333.600
170	338.775	338.545	337.895	336.680	335.215	333.410	331.250	328.925	326.475	323.790
175	320.585	320.480	320.270	320.020	319.725	319.225	318.720	318.135	317.525	316.920
180	314.885	314.885	314.885	314.885	314.885	314.885	314.885	314.885	314.885	314.885

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>
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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PHOTOMETRIC FILENAME : VODE_107_RR_LO_359_G1.IES

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	24.540	21.900	19.320	17.060	15.570	14.670	14.230	14.000	13.455
100	61.360	55.515	49.835	44.995	41.620	39.420	37.975	36.885	36.130
105	104.045	94.785	85.545	77.370	71.440	67.290	64.505	62.595	61.735
110	149.440	136.275	123.160	111.255	102.370	95.935	91.745	89.065	88.100
115	193.360	176.850	160.020	144.450	132.650	124.040	118.400	115.030	113.835
120	234.270	214.525	194.240	175.530	161.465	150.780	143.695	139.525	138.100
125	269.765	247.640	225.090	204.070	187.810	175.275	167.060	162.220	160.690
130	298.500	274.795	251.265	229.010	211.465	197.865	188.665	183.365	181.605
135	320.060	296.170	272.365	250.280	232.485	218.490	209.015	203.460	201.555
140	334.145	311.470	288.920	267.795	250.845	237.515	228.190	222.680	220.750
145	341.730	321.195	300.865	282.045	267.020	254.680	246.130	240.955	239.190
150	343.575	325.910	309.060	293.550	280.685	270.310	262.745	258.180	256.630
155	340.430	326.895	314.005	302.020	292.150	283.910	277.940	274.170	272.930
160	334.565	325.445	316.290	307.905	300.990	295.310	290.995	288.250	287.350
165	327.670	322.180	316.770	311.785	307.655	304.135	301.515	299.860	299.335
170	321.150	318.530	316.205	313.795	311.995	310.235	309.145	308.430	308.220
175	316.245	315.620	315.010	314.550	314.130	313.795	313.585	313.420	313.420
180	314.885	314.885	314.885	314.885	314.885	314.885	314.885	314.885	314.885

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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	139.26	N.A.	10.50
90-120	328.48	N.A.	24.80
90-130	568.77	N.A.	42.90
90-150	1038.9	N.A.	78.30
90-180	1326.41	N.A.	100.00
110-180	1187.15	N.A.	89.50
0-180	1326.41	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	29.73
100-110	109.54
110-120	189.22
120-130	240.29
130-140	250.19
140-150	219.94
150-160	162.31
160-170	94.73
170-180	30.47

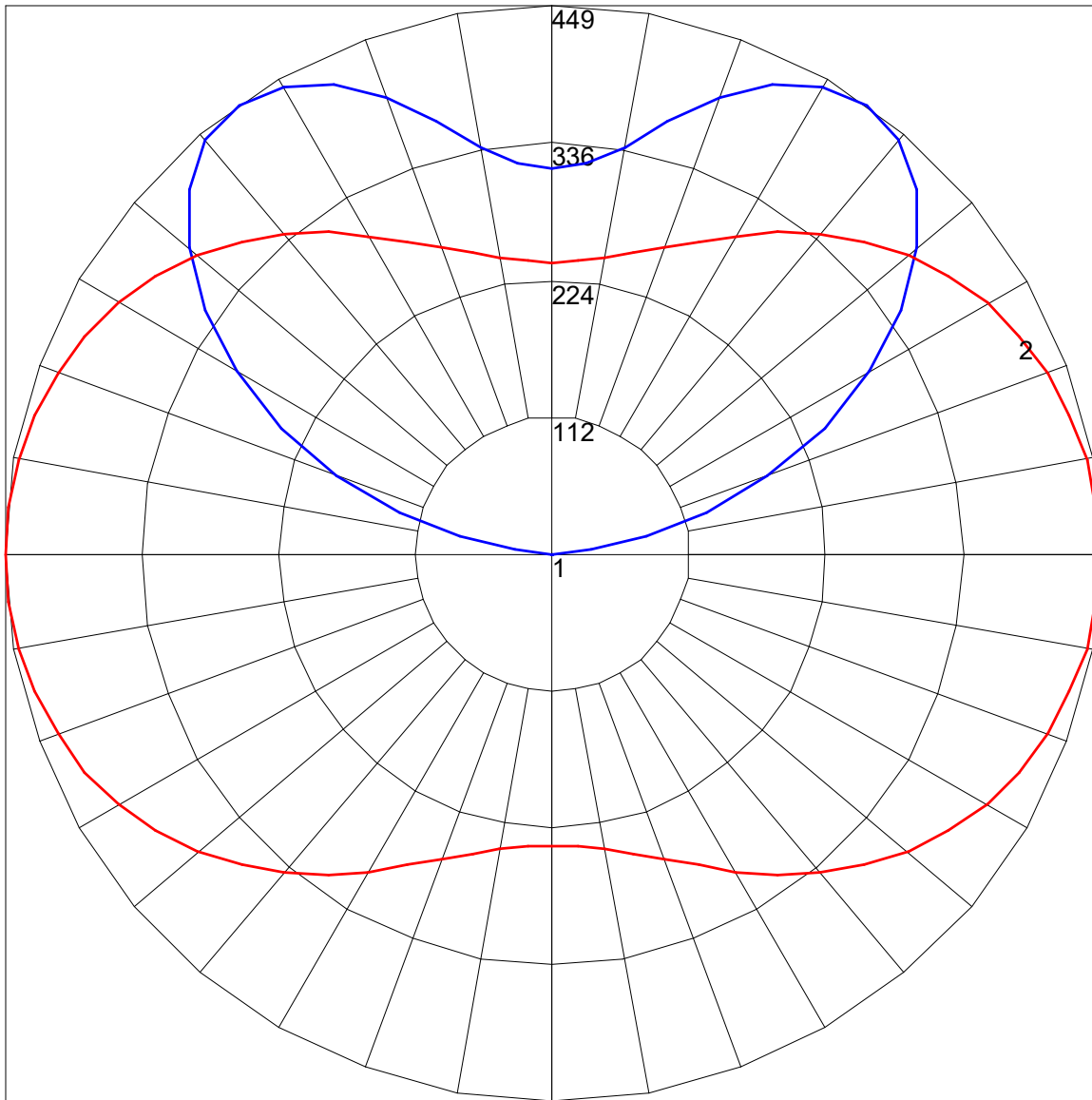
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	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	28	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 = 448.5 Located At Horizontal Angle = 0, Vertical Angle = 145
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Horizontal Cone Through Vertical Angle (145) (Through Max. Cd.)