

IES Report

RaceRail® | 107 | 120° Batwing Lens | 80 CRI | LO

107-RR-XX-4-48-XX-XX-XX-XX-X-X-Z-LO-35-G1-X-XX-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	98	101	103	103
Total Lumens, 4' rail length (1219mm)	1462	1508	1539	1539
Lumens per foot (305mm)	365	377	385	385
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	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_RR_LO_35_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] 12/23/2019

[MANUFAC] Vode Lighting

[LUMCAT] 107-RR-48-Z-LO-35-G1-AL

[LUMINAIRE] RaceRail LED, 48", 3500K, 80 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	1539
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	111
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

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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	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	36.221	36.221	36.146	36.024	35.757	35.345	34.713	33.936	32.892	31.140
100	89.946	89.970	90.138	90.236	90.161	89.529	88.195	85.979	82.383	77.447
105	151.444	151.374	151.345	151.229	150.690	149.576	147.482	143.712	138.197	130.465
110	217.662	217.639	217.494	217.053	215.888	214.043	210.685	205.361	197.461	186.690
115	284.467	284.415	283.782	282.814	280.865	277.536	272.600	265.234	255.003	241.680
120	348.104	347.693	346.718	344.845	341.933	337.119	330.409	321.071	308.531	292.337
125	404.840	404.306	402.798	400.055	395.920	389.650	381.454	370.324	355.494	336.487
130	452.000	451.420	449.448	446.165	441.113	433.695	423.800	410.460	393.298	372.099
135	489.195	488.366	486.034	481.852	475.507	466.662	454.772	439.193	420.013	397.503
140	512.772	511.728	508.498	503.365	495.906	485.448	472.079	455.451	435.690	413.105
145	520.260	518.949	515.475	509.733	501.665	490.726	476.847	460.561	441.473	419.671
150	512.969	511.873	508.399	502.541	494.467	483.795	470.937	455.573	437.929	418.795
155	492.646	491.747	488.418	483.094	475.774	466.297	454.940	441.716	427.083	411.139
160	461.483	460.630	457.910	453.583	447.627	439.994	431.120	421.399	410.628	399.568
165	424.676	424.073	422.420	419.769	416.046	411.382	406.081	400.026	393.658	386.976
170	392.979	392.712	391.958	390.549	388.849	386.756	384.250	381.553	378.711	375.596
175	371.879	371.757	371.513	371.223	370.881	370.301	369.715	369.037	368.329	367.627
180	365.267	365.267	365.267	365.267	365.267	365.267	365.267	365.267	365.267	365.267

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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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	28.466	25.404	22.411	19.790	18.061	17.017	16.507	16.240	15.608
100	71.178	64.397	57.809	52.194	48.279	45.727	44.051	42.787	41.911
105	120.692	109.951	99.232	89.749	82.870	78.056	74.826	72.610	71.613
110	173.350	158.079	142.866	129.056	118.749	111.285	106.424	103.315	102.196
115	224.298	205.146	185.623	167.562	153.874	143.886	137.344	133.435	132.049
120	271.753	248.849	225.318	203.615	187.299	174.905	166.686	161.849	160.196
125	312.927	287.262	261.104	236.721	217.860	203.319	193.790	188.175	186.400
130	346.260	318.762	291.467	265.652	245.299	229.523	218.851	212.703	210.662
135	371.270	343.557	315.943	290.325	269.683	253.448	242.457	236.014	233.804
140	387.608	361.305	335.147	310.642	290.980	275.517	264.700	258.309	256.070
145	396.407	372.586	349.003	327.172	309.743	295.429	285.511	279.508	277.460
150	398.547	378.056	358.510	340.518	325.595	313.560	304.784	299.489	297.691
155	394.899	379.198	364.246	350.343	338.894	329.336	322.410	318.037	316.599
160	388.095	377.516	366.896	357.170	349.148	342.560	337.554	334.370	333.326
165	380.097	373.729	367.453	361.671	356.880	352.797	349.757	347.838	347.229
170	372.534	369.495	366.798	364.002	361.914	359.873	358.608	357.779	357.535
175	366.844	366.119	365.412	364.878	364.391	364.002	363.759	363.567	363.567
180	365.267	365.267	365.267	365.267	365.267	365.267	365.267	365.267	365.267

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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	161.55	N.A.	10.50
90-120	381.04	N.A.	24.80
90-130	659.78	N.A.	42.90
90-150	1205.12	N.A.	78.30
90-180	1538.64	N.A.	100.00
110-180	1377.09	N.A.	89.50
0-180	1538.64	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	34.48
100-110	127.06
110-120	219.49
120-130	278.74
130-140	290.22
140-150	255.13
150-160	188.29
160-170	109.89
170-180	35.34

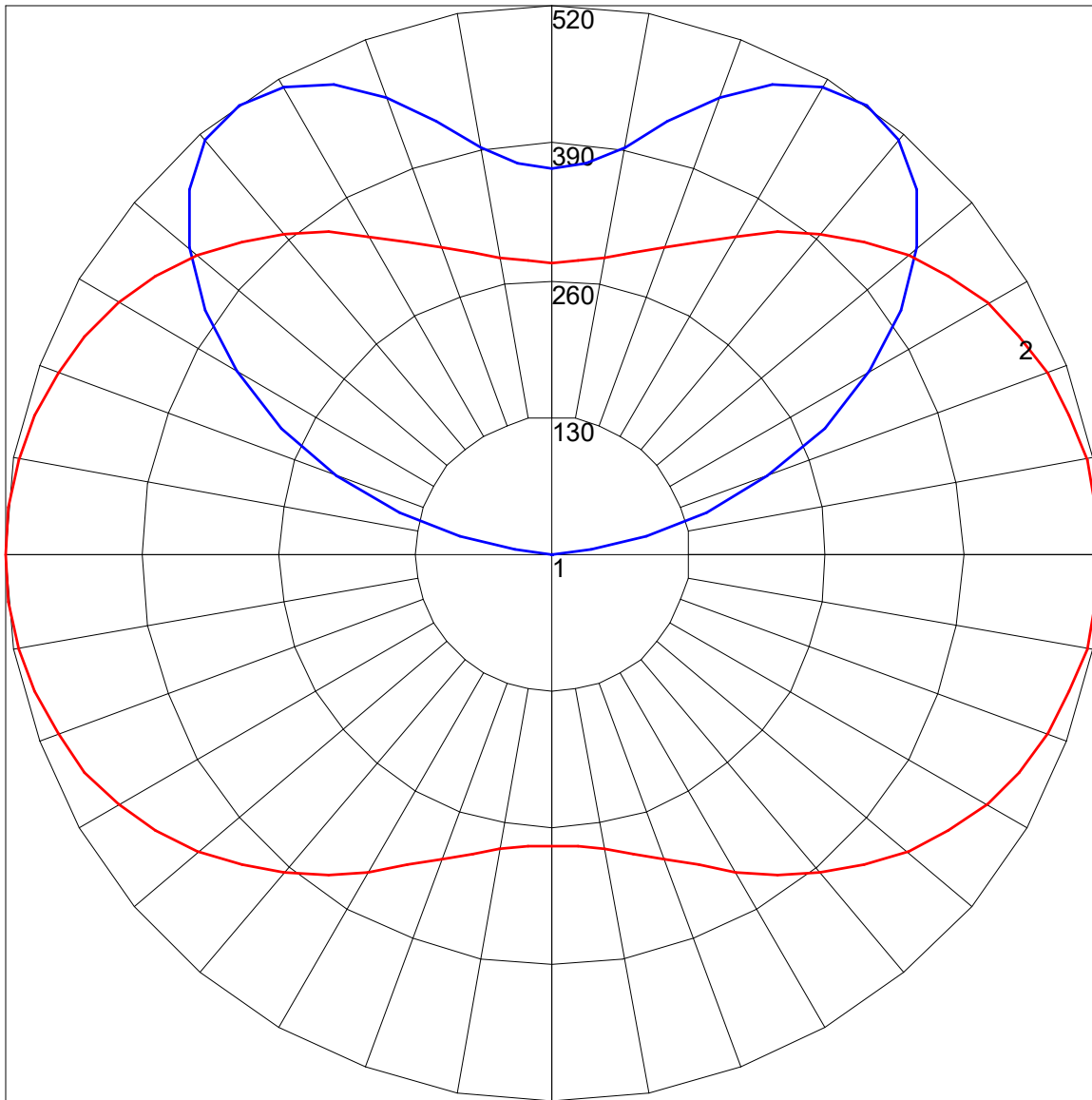
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	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 = 520.26 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.)