

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	88	91	93	95
Total Lumens, 4' rail length (1219mm)	1313	1355	1383	1410
Lumens per foot (305mm)	328	339	346	353
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	85	85	85	85

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] 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-35-G1
[LUMINAIRE] RaceRail LED, 48", 3500K, 80 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	1383
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	92
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	32.608	32.753	33.182	33.808	34.556	35.328	35.711	35.641	34.701	32.677
100	82.163	82.308	82.667	83.079	83.514	83.682	83.317	82.041	79.419	75.035
105	136.921	137.019	137.402	137.936	138.272	138.295	137.379	135.215	130.999	124.039
110	197.223	197.339	197.728	198.018	198.163	197.676	196.063	192.740	186.650	176.343
115	260.362	260.432	260.623	260.698	260.310	259.011	256.076	250.751	241.628	227.586
120	323.837	323.791	323.501	322.753	321.140	318.055	312.974	304.523	291.711	273.795
125	381.199	380.932	379.749	377.922	374.599	369.396	361.763	350.227	333.807	312.208
130	426.805	426.201	424.351	421.121	416.040	408.651	398.437	383.844	364.292	340.356
135	456.379	455.700	453.125	448.769	442.314	433.138	420.906	404.579	383.896	359.235
140	471.981	471.041	468.106	463.118	455.776	445.637	432.732	415.611	394.562	370.098
145	476.412	475.206	472.027	466.709	458.977	448.288	434.751	417.293	396.297	372.963
150	468.994	467.961	464.441	458.710	450.283	438.967	425.094	408.239	388.588	367.807
155	445.684	444.576	441.229	435.429	427.263	416.643	404.167	389.215	372.795	356.224
160	408.071	407.131	404.098	399.521	392.875	384.523	375.202	364.507	353.092	341.800
165	365.835	365.330	363.567	360.731	356.926	352.130	346.788	340.599	334.266	327.857
170	332.508	332.288	331.447	330.240	328.605	326.557	324.272	321.668	318.948	316.251
175	312.806	312.881	312.690	312.446	312.156	311.773	311.269	310.787	310.277	309.650
180	307.400	307.400	307.400	307.400	307.400	307.400	307.400	307.400	307.400	307.400

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	29.568	25.816	22.081	19.215	17.458	16.495	15.944	15.579	15.173
100	68.365	60.419	52.594	46.620	42.914	40.890	39.736	39.057	38.674
105	113.274	100.415	87.945	78.068	71.932	68.463	66.584	65.621	65.209
110	161.002	143.016	125.025	111.058	101.935	96.901	94.273	93.073	92.661
115	207.362	184.098	161.414	143.353	131.527	124.567	120.884	119.225	118.813
120	248.948	221.780	195.176	173.693	159.291	150.527	145.951	143.834	143.185
125	284.536	254.052	224.599	200.808	184.411	174.273	168.734	166.106	165.387
130	310.544	279.647	249.040	224.675	206.903	195.680	189.370	186.383	185.519
135	329.330	298.915	269.799	245.381	227.372	215.522	208.493	205.094	204.009
140	341.655	312.637	285.261	262.914	245.816	234.018	226.577	222.842	221.641
145	346.811	320.949	296.867	277.315	261.899	250.751	243.600	239.818	238.397
150	345.750	323.907	304.477	288.173	275.436	265.657	259.254	255.618	254.388
155	339.056	323.164	308.833	296.264	286.294	278.684	273.511	270.425	269.224
160	330.577	319.864	310.138	301.658	294.652	289.281	285.720	283.336	282.657
165	321.140	315.120	309.558	304.860	301.008	297.708	295.423	293.903	293.399
170	313.600	311.124	308.809	306.716	304.883	303.369	302.261	301.559	301.443
175	309.001	308.496	307.992	307.533	307.127	306.669	306.472	306.234	306.257
180	307.400	307.400	307.400	307.400	307.400	307.400	307.400	307.400	307.400

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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	149.24	N.A.	10.80
90-120	349.99	N.A.	25.30
90-130	605.44	N.A.	43.80
90-150	1094.43	N.A.	79.20
90-180	1382.53	N.A.	100.00
110-180	1233.29	N.A.	89.20
0-180	1382.53	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	32.89
100-110	116.35
110-120	200.75
120-130	255.45
130-140	262.04
140-150	226.95
150-160	164.64
160-170	93.68
170-180	29.78

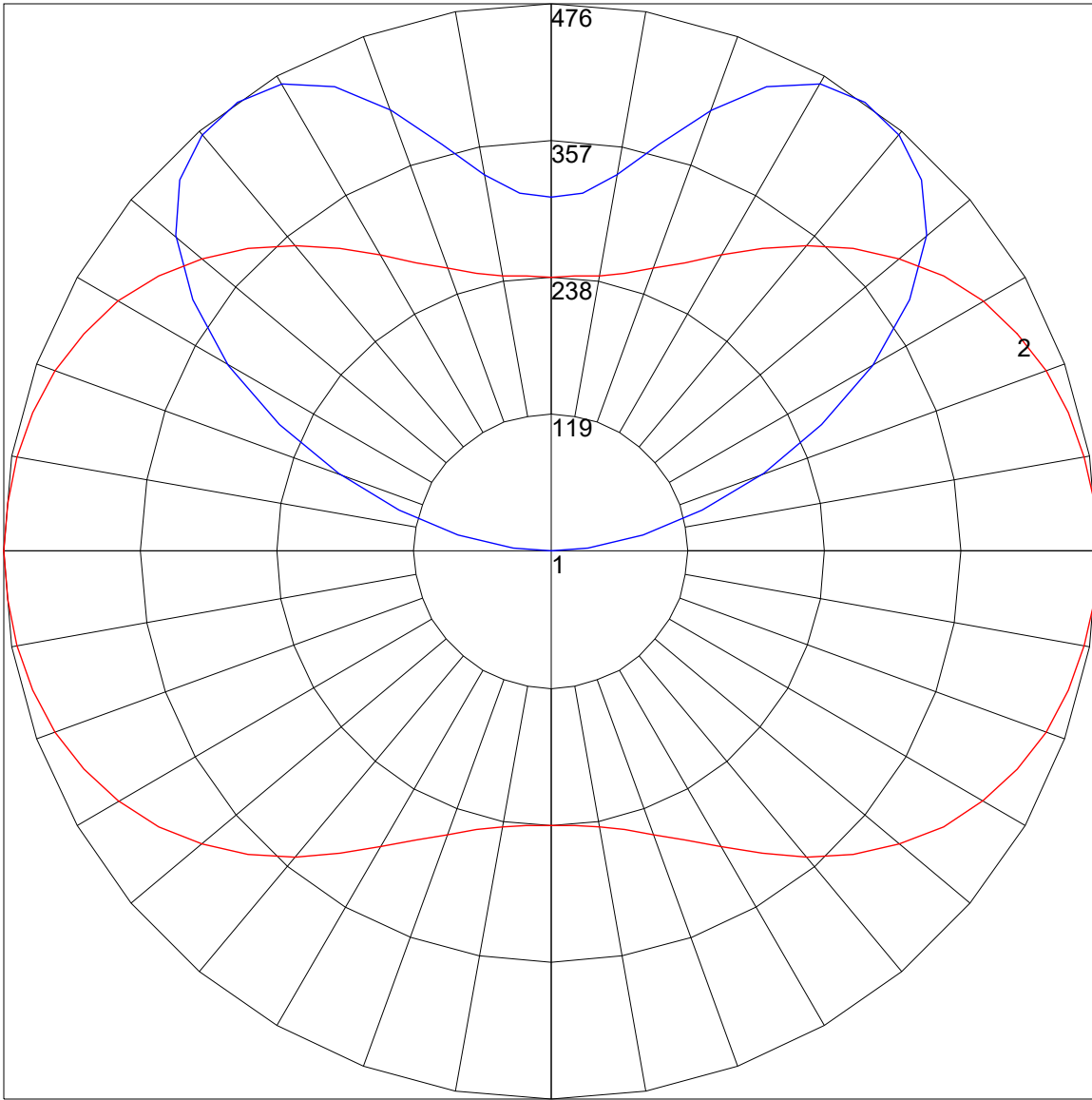
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 476.412 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.)