

IES Report

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

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

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	122	126	128	128
Total Lumens, 4' rail length (1219mm)	2924	3016	3077	3077
Lumens per foot (305mm)	731	754	769	769
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_RR_SO_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-SO-35-G1-AL
[LUMINAIRE] RaceRail LED, 48", 3500K, 80 CRI, zipper board, 120° batwing lens,
[MORE] standard 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	3077
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	129
Total Luminaire Watts	23.92
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

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	72.442	72.442	72.291	72.048	71.514	70.690	69.426	67.872	65.784	62.280
100	179.893	179.939	180.276	180.473	180.322	179.058	176.390	171.958	164.766	154.895
105	302.888	302.748	302.690	302.458	301.380	299.152	294.965	287.425	276.393	260.930
110	435.325	435.278	434.988	434.107	431.775	428.086	421.370	410.721	394.922	373.381
115	568.934	568.829	567.565	565.628	561.730	555.072	545.200	530.468	510.006	483.360
120	696.209	695.385	693.436	689.690	683.866	674.238	660.817	642.141	617.062	584.675
125	809.680	808.613	805.597	800.110	791.839	779.300	762.909	740.648	710.987	672.974
130	904.000	902.840	898.896	892.330	882.226	867.390	847.600	820.920	786.596	744.198
135	978.390	976.732	972.068	963.705	951.014	933.324	909.544	878.387	840.026	795.006
140	1025.544	1023.456	1016.995	1006.729	991.812	970.897	944.159	910.902	871.380	826.210
145	1040.520	1037.898	1030.950	1019.466	1003.330	981.453	953.694	921.121	882.946	839.341
150	1025.939	1023.746	1016.798	1005.082	988.935	967.591	941.874	911.145	875.858	837.590
155	985.292	983.494	976.836	966.187	951.548	932.594	909.881	883.433	854.166	822.278
160	922.966	921.260	915.820	907.166	895.253	879.988	862.240	842.798	821.257	799.136
165	849.352	848.146	844.840	839.538	832.091	822.765	812.162	800.052	787.315	773.952
170	785.958	785.424	783.916	781.098	777.699	773.511	768.500	763.106	757.422	751.193
175	743.757	743.514	743.026	742.446	741.762	740.602	739.430	738.073	736.658	735.254
180	730.533	730.533	730.533	730.533	730.533	730.533	730.533	730.533	730.533	730.533

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	56.933	50.808	44.822	39.579	36.122	34.034	33.014	32.480	31.216
100	142.355	128.795	115.617	104.388	96.558	91.454	88.102	85.573	83.822
105	241.384	219.901	198.464	179.498	165.741	156.113	149.652	145.220	143.225
110	346.701	316.158	285.731	258.112	237.498	222.569	212.848	206.631	204.392
115	448.595	410.292	371.246	335.124	307.748	287.773	274.688	266.870	264.097
120	543.506	497.698	450.637	407.230	374.599	349.810	333.372	323.698	320.392
125	625.855	574.525	522.209	473.442	435.719	406.638	387.579	376.350	372.801
130	692.520	637.524	582.935	531.303	490.599	459.047	437.703	425.407	421.324
135	742.539	687.114	631.887	580.650	539.365	506.897	484.915	472.027	467.608
140	775.216	722.610	670.294	621.284	581.960	551.035	529.401	516.618	512.140
145	792.814	745.172	698.007	654.344	619.486	590.858	571.022	559.016	554.921
150	797.094	756.111	717.019	681.036	651.189	627.119	609.568	598.978	595.382
155	789.798	758.396	728.492	700.686	677.788	658.671	644.821	636.074	633.198
160	776.191	755.032	733.793	714.340	698.297	685.119	675.108	668.740	666.652
165	760.194	747.458	734.906	723.341	713.760	705.593	699.515	695.675	694.457
170	745.068	738.990	733.596	728.004	723.828	719.745	717.216	715.558	715.070
175	733.688	732.238	730.823	729.756	728.782	728.004	727.517	727.134	727.134
180	730.533	730.533	730.533	730.533	730.533	730.533	730.533	730.533	730.533

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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	323.09	N.A.	10.50
90-120	762.07	N.A.	24.80
90-130	1319.55	N.A.	42.90
90-150	2410.24	N.A.	78.30
90-180	3077.27	N.A.	100.00
110-180	2754.18	N.A.	89.50
0-180	3077.27	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	68.96
100-110	254.13
110-120	438.98
120-130	557.48
130-140	580.44
140-150	510.26
150-160	376.57
160-170	219.78
170-180	70.68

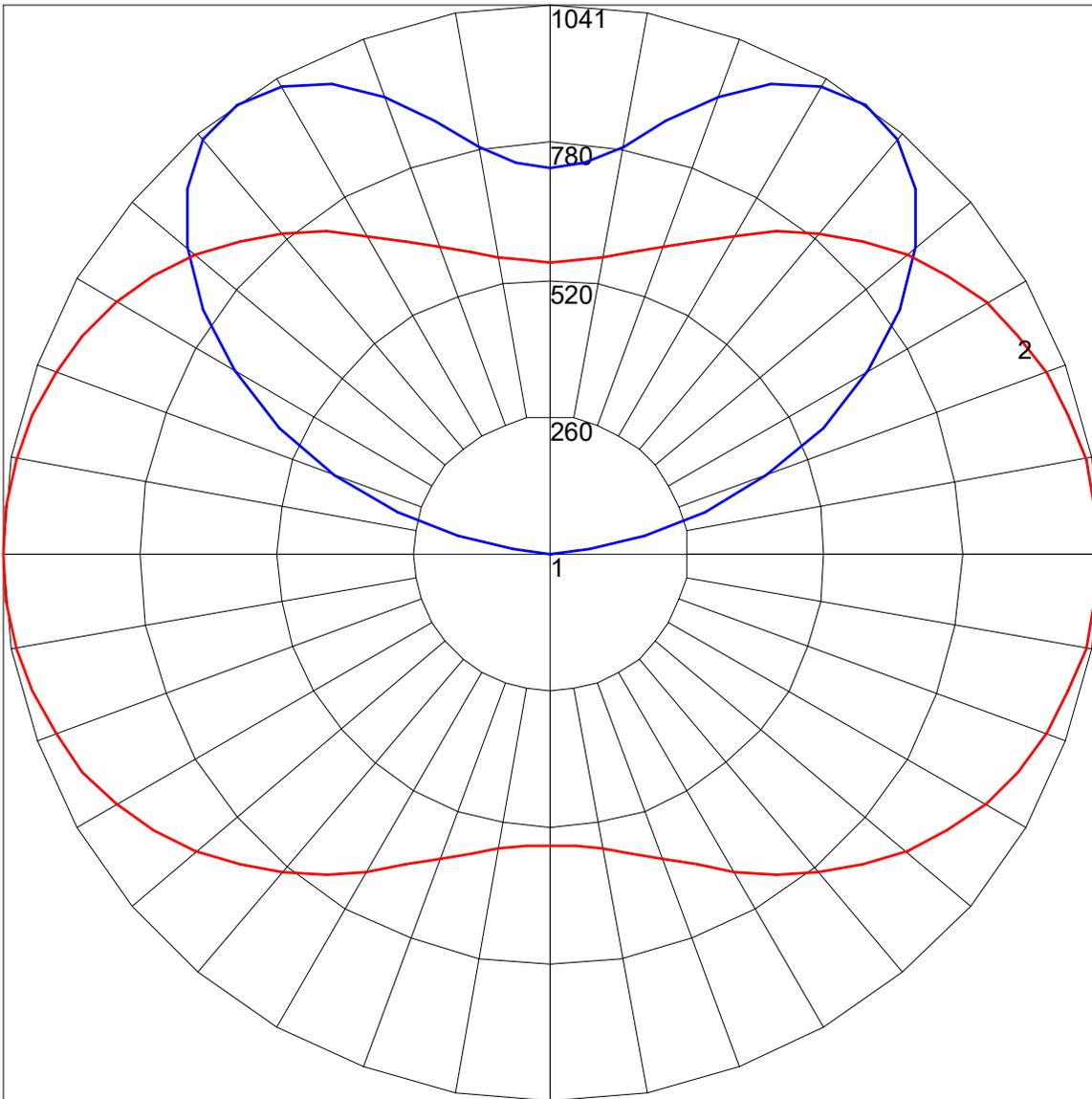
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	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 = 1040.52 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.)