

IES Report

RaceRail® | 107 | 120° FlyWing™ | 80 CRI | LO

107-RR-XX-4-48-XX-XX-XX-XX-X-X-Z-LO-35-G2-X-XX-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	86	89	91	93
Total Lumens, 4' rail length (1219mm)	1282	1322	1349	1376
Lumens per foot (305mm)	320	331	337	344
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_G2.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L071704215 (SOURCE REPORT FOR REFERENCE)
[TESTLAB] REPORT BASED ON DATA PRODUCED BY NVLAP ACCREDITED LAB
[ISSUEDATE] 11/1/2017
[MANUFAC] Vode Lighting
[LUMCAT] 107-RR-48-Z-LO-35-G2
[LUMINAIRE] RaceRail LED, 48", 3500K, 80 CRI, zipper board,
[MORE] 120° flywing lens, low output
[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1346
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	90
Total Luminaire Watts	14.95
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.54
Spacing Criterion (90-270)	1.14
Spacing Criterion (Diagonal)	1.52
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.06 ft
Luminous Width (90-270)	3.83 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	26836	23725	15566
55	25118	22702	14693
65	19003	18737	14148
75	10975	12782	12348
85	4761	6130	6393

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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	444.229	444.229	444.229	444.229	444.229	444.229	444.229	444.229	444.229	444.229
5	446.707	446.707	446.559	446.388	446.093	445.774	445.432	445.043	444.577	444.134
10	455.032	454.860	454.300	453.592	452.512	451.067	449.545	447.686	445.774	443.715
15	464.737	464.342	463.386	461.893	459.740	457.215	454.029	450.406	446.364	442.122
20	472.035	471.616	470.295	468.289	465.174	461.427	456.796	451.385	445.184	438.571
25	473.994	473.575	472.183	469.734	466.206	461.551	455.964	449.108	441.172	432.376
30	469.439	468.926	467.357	464.737	460.814	455.793	449.598	441.833	432.594	422.086
35	457.338	456.825	455.279	452.731	448.789	443.621	437.078	428.847	418.829	407.023
40	436.370	436.028	434.582	432.252	428.653	423.826	417.313	409.006	398.793	386.297
45	405.501	405.112	403.985	402.173	399.159	395.046	389.188	381.352	371.110	358.496
50	363.275	363.027	362.390	361.239	359.257	356.148	351.321	344.359	334.978	322.807
55	307.862	307.862	307.862	307.815	307.201	305.608	302.399	297.083	289.200	278.250
60	241.428	241.676	242.266	243.121	243.829	243.977	242.779	239.670	233.959	225.657
65	171.619	171.961	172.964	174.363	176.050	177.472	178.109	177.230	174.215	169.218
70	109.646	109.935	110.890	112.336	114.100	115.964	117.534	118.165	117.557	115.669
75	60.699	60.923	61.732	62.929	64.570	66.410	68.121	69.543	70.304	70.694
80	27.630	27.706	27.948	28.367	29.004	29.736	30.692	31.819	33.193	34.539
85	8.868	8.915	9.015	9.233	9.528	9.947	10.313	10.732	11.098	11.416
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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	444.229	444.229	444.229	444.229	444.229	444.229	444.229	444.229	444.229
5	443.692	443.226	442.789	442.347	442.075	441.804	441.609	441.538	441.462
10	441.633	439.503	437.520	435.685	434.187	432.842	431.886	431.319	431.125
15	437.621	432.966	428.605	424.340	420.717	417.602	415.301	413.932	413.490
20	431.349	423.826	416.475	409.153	402.905	397.418	393.377	390.881	389.972
25	422.334	411.997	401.389	390.710	381.400	373.193	367.021	363.174	361.605
30	409.767	396.686	383.063	369.057	356.732	345.734	337.527	332.406	330.400
35	393.011	377.677	361.316	344.536	329.592	316.411	306.493	300.416	298.162
40	370.868	353.988	335.810	317.025	300.493	286.014	275.111	268.426	266.025
45	342.672	324.937	306.003	286.746	269.848	255.075	244.248	237.634	235.209
50	307.301	289.955	271.931	253.606	238.000	224.578	214.707	208.707	206.547
55	264.408	248.779	233.150	217.745	204.860	194.204	186.464	181.732	180.092
60	214.683	202.877	191.408	180.487	171.129	163.483	158.291	155.400	154.373
65	162.433	155.253	148.491	142.249	137.057	132.349	129.411	128.236	127.770
70	112.855	110.011	107.291	104.743	102.689	100.701	99.161	99.138	99.061
75	70.375	70.157	69.791	69.396	69.177	68.635	67.732	67.803	68.292
80	35.813	36.816	37.406	37.748	37.919	37.819	37.406	36.692	37.329
85	11.682	11.735	11.735	12.201	12.638	12.714	12.443	11.829	11.906
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	166.93	N.A.	12.40
0-30	362.89	N.A.	27.00
0-40	607.93	N.A.	45.20
0-60	1099.46	N.A.	81.70
0-80	1330.46	N.A.	98.90
0-90	1345.55	N.A.	100.00
10-90	1303.18	N.A.	96.90
20-40	440.99	N.A.	32.80
20-50	701.40	N.A.	52.10
40-70	649.27	N.A.	48.30
60-80	231.00	N.A.	17.20
70-80	73.26	N.A.	5.40
80-90	15.09	N.A.	1.10
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	1345.55	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	42.37
10-20	124.57
20-30	195.95
30-40	245.04
40-50	260.41
50-60	231.12
60-70	157.75
70-80	73.26
80-90	15.09
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

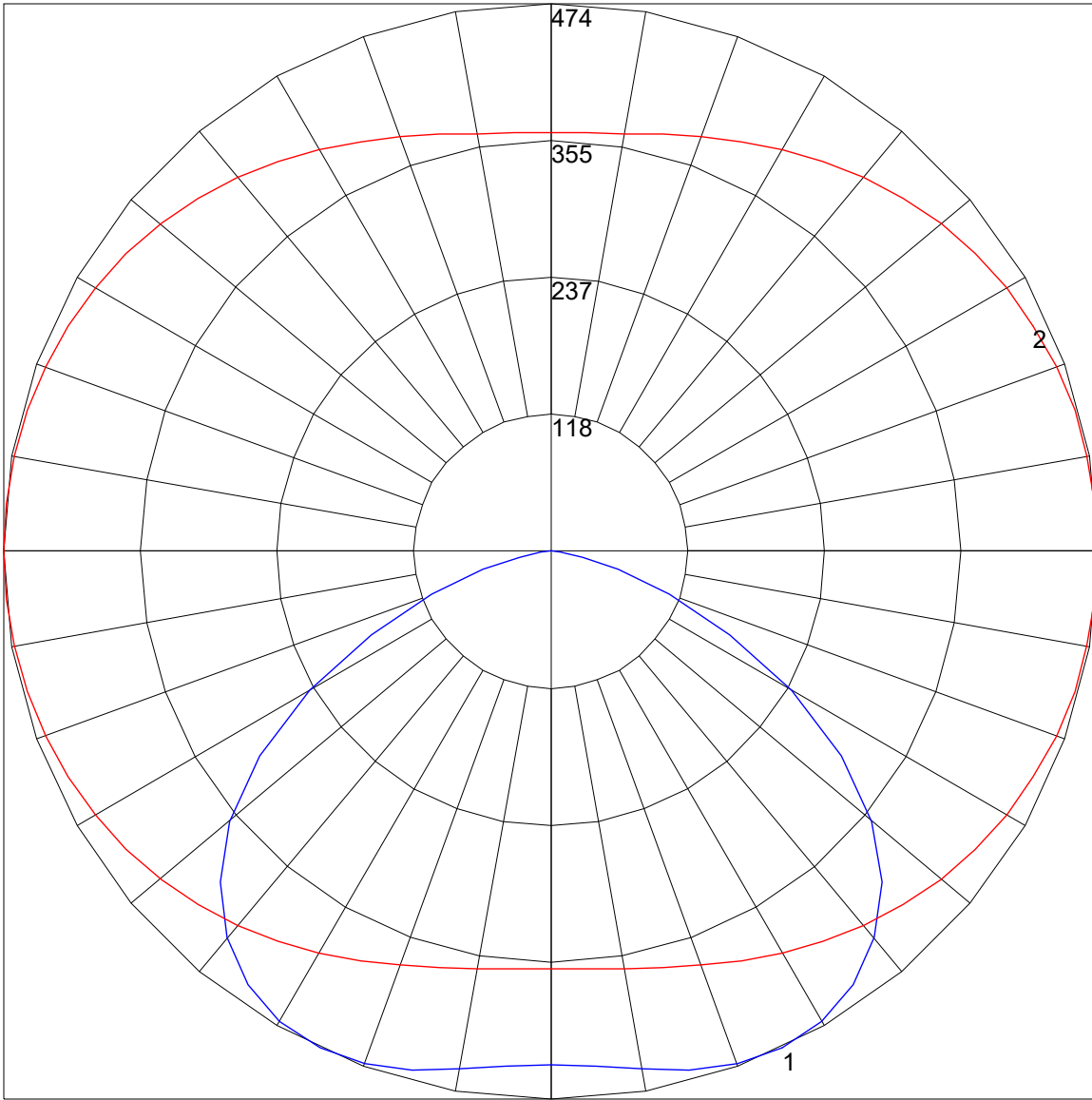
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	70	57	48	42	68	56	48	41	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	63	51	42	37	49	42	36	48	41	36	46	40	36	34
8	61	47	38	33	59	46	38	33	45	38	32	44	37	32	43	36	32	30
9	56	43	35	29	55	42	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	26	52	39	32	26	38	31	26	37	31	26	36	30	26	24

POLAR GRAPH



Maximum Candela = 473.994 Located At Horizontal Angle = 0, Vertical Angle = 25
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (25) (Through Max. Cd.)