

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	108	111	114	114
Total Lumens, 4' rail length (1219mm)	1482	1528	1560	1560
Lumens per foot (305mm)	370	382	390	390
Input Power (W), 4' rail length (1219mm)	13.8	13.8	13.8	13.8
Watts per foot (305mm)	3.5	3.5	3.5	3.5
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_G2.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L121911516 (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-G2-AL

[LUMINAIRE] RaceRail LED, 48", 3500K, 80 CRI, zipper board, 120° flywing 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	1560
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	113
Total Luminaire Watts	13.82
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.64
Spacing Criterion (90-270)	1.20
Spacing Criterion (Diagonal)	1.56
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	26267	23548	16691
55	24331	22636	16108
65	19776	19620	14967
75	9680	13516	11911
85	1272	1853	5402

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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	480.199	480.199	480.199	480.199	480.199	480.199	480.199	480.199	480.199	480.199
5	484.671	484.793	484.625	484.480	484.138	483.726	483.285	482.804	482.195	481.539
10	500.523	500.523	499.792	498.748	497.118	495.245	493.012	490.483	487.763	485.037
15	522.887	522.568	521.211	518.851	515.446	511.340	506.502	501.300	495.465	489.439
20	543.791	543.182	541.140	537.863	532.904	526.947	519.825	511.438	502.367	492.890
25	555.362	554.851	552.618	548.750	543.234	536.111	527.406	517.128	505.360	492.524
30	553.564	552.833	550.791	547.027	541.679	534.505	525.318	514.257	501.178	486.446
35	536.987	536.570	534.748	531.663	526.750	520.382	511.728	501.033	487.879	472.491
40	506.549	506.334	504.994	502.587	498.939	493.621	486.324	476.551	463.988	448.990
45	464.255	463.890	463.037	461.581	458.931	454.894	449.135	440.991	430.053	416.196
50	410.675	410.530	410.240	409.387	408.245	405.617	401.488	395.241	386.344	374.407
55	348.835	348.882	349.079	349.079	348.783	347.617	345.210	340.837	334.126	324.527
60	280.819	280.940	281.573	282.205	282.860	282.930	282.129	279.653	275.152	268.006
65	208.910	209.131	210.006	211.340	212.901	214.043	214.554	213.968	211.659	207.257
70	135.743	136.010	137.443	139.484	142.059	144.542	146.508	147.703	147.506	145.661
75	62.623	63.034	64.856	67.825	71.833	76.235	80.417	84.083	86.490	87.441
80	12.250	12.325	12.911	13.903	15.608	18.038	21.466	25.914	30.821	35.322
85	2.772	2.772	2.796	2.871	2.964	3.039	3.161	3.381	3.596	4.037
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	480.199	480.199	480.199	480.199	480.199	480.199	480.199	480.199	480.199
5	480.808	480.223	479.567	479.010	478.448	478.158	477.961	477.671	477.334
10	482.142	479.324	476.969	474.829	472.613	470.914	469.991	469.336	468.628
15	483.285	477.450	471.644	466.511	462.283	458.855	456.205	454.772	454.094
20	482.751	472.787	463.426	454.749	447.673	441.937	437.709	435.226	434.350
25	479.034	465.032	451.878	439.460	429.246	420.981	415.077	411.626	410.431
30	470.160	452.974	436.398	420.546	407.491	396.964	389.574	385.201	383.496
35	454.505	435.667	416.289	397.863	382.893	370.492	361.647	356.538	354.861
40	430.807	411.261	390.961	371.246	355.006	341.835	332.404	327.103	325.160
45	399.249	379.900	359.211	340.251	323.744	310.764	301.722	296.618	295.011
50	358.974	341.371	322.654	304.471	289.814	278.046	269.903	265.309	263.755
55	311.547	296.450	280.500	265.043	252.520	242.556	235.921	232.249	230.933
60	258.164	246.419	233.926	221.798	212.048	204.560	199.578	196.904	196.075
65	200.744	192.502	184.069	175.781	169.140	164.012	160.637	158.711	158.108
70	142.378	137.831	133.017	128.279	124.387	121.353	119.306	118.192	117.804
75	87.099	85.765	83.990	82.041	80.318	78.857	77.888	77.256	77.059
80	38.605	40.380	41.058	41.134	40.913	40.525	40.206	39.939	39.771
85	4.791	6.177	8.045	10.208	11.525	12.012	12.058	11.936	11.768
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	184.58	N.A.	11.80
0-30	409.19	N.A.	26.20
0-40	695.19	N.A.	44.60
0-60	1271.89	N.A.	81.50
0-80	1548.33	N.A.	99.30
0-90	1559.82	N.A.	100.00
10-90	1513.76	N.A.	97.00
20-40	510.61	N.A.	32.70
20-50	815.30	N.A.	52.30
40-70	768.49	N.A.	49.30
60-80	276.44	N.A.	17.70
70-80	84.66	N.A.	5.40
80-90	11.49	N.A.	0.70
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	1559.82	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	46.06
10-20	138.52
20-30	224.61
30-40	286.00
40-50	304.69
50-60	272.01
60-70	191.78
70-80	84.66
80-90	11.49
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

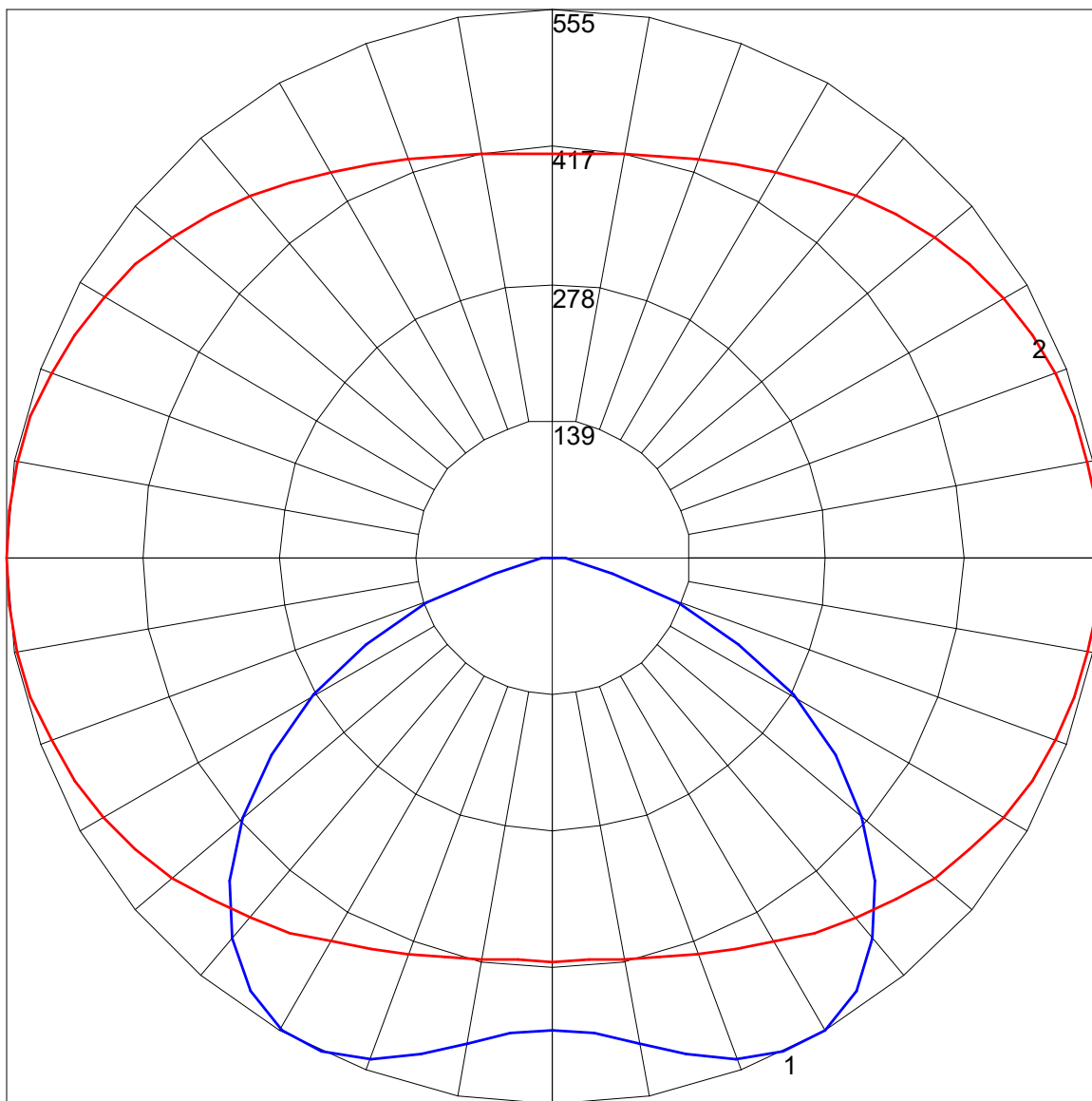
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	90	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	67	63	70	66	62	60
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	47	60	52	47	58	51	46	56	50	46	44
6	70	57	48	41	68	56	47	41	54	46	41	52	46	40	51	45	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	30
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

POLAR GRAPH



Maximum Candela = 555.362 Located At Horizontal Angle = 0, Vertical Angle = 25
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Horizontal Cone Through Vertical Angle (25) (Through Max. Cd.)