

IES Report

RaceRail® | 107 | 120° FlyWing™ | 90 CRI | LO

107-RR-XX-4-48-XX-XX-XX-XX-X-X-Z-LO-359-G2-X-XX-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	74	77	78	80
Total Lumens, 4' rail length (1219mm)	1105	1140	1163	1186
Lumens per foot (305mm)	276	285	291	297
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	96	96	96	96

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_359_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-359-G2
[LUMINAIRE] RaceRail LED, 48", 3500K, 90 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	1163
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	78
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	23197	20508	13456
55	21712	19623	12701
65	16427	16197	12230
75	9487	11049	10673
85	4116	5298	5526

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CANDELA TABULATION

	0	5	10	15	20	25	30	35	40	45
0	383.994	383.994	383.994	383.994	383.994	383.994	383.994	383.994	383.994	383.994
5	386.136	386.136	386.009	385.861	385.606	385.330	385.035	384.698	384.295	383.913
10	393.332	393.184	392.700	392.088	391.155	389.905	388.589	386.983	385.330	383.551
15	401.722	401.380	400.554	399.264	397.402	395.219	392.465	389.334	385.840	382.174
20	408.031	407.668	406.526	404.792	402.099	398.861	394.857	390.181	384.820	379.103
25	409.724	409.362	408.158	406.042	402.992	398.968	394.138	388.212	381.352	373.748
30	405.787	405.343	403.986	401.722	398.330	393.990	388.635	381.924	373.937	364.854
35	395.326	394.883	393.547	391.343	387.937	383.469	377.813	370.699	362.039	351.834
40	377.201	376.905	375.656	373.641	370.530	366.358	360.728	353.547	344.719	333.917
45	350.518	350.181	349.207	347.641	345.035	341.481	336.416	329.644	320.790	309.886
50	314.017	313.803	313.252	312.258	310.544	307.856	303.685	297.667	289.558	279.036
55	266.118	266.118	266.118	266.077	265.547	264.170	261.395	256.800	249.987	240.521
60	208.692	208.906	209.416	210.156	210.768	210.895	209.860	207.172	202.235	195.060
65	148.349	148.645	149.512	150.720	152.179	153.408	153.959	153.199	150.593	146.273
70	94.778	95.028	95.854	97.104	98.629	100.240	101.597	102.143	101.617	99.985
75	52.469	52.663	53.361	54.397	55.814	57.406	58.885	60.114	60.772	61.108
80	23.883	23.950	24.159	24.521	25.072	25.704	26.530	27.504	28.693	29.855
85	7.665	7.706	7.793	7.981	8.236	8.599	8.915	9.277	9.593	9.868
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Horizontal Angles

	50	55	60	65	70	75	80	85	90
0	383.994	383.994	383.994	383.994	383.994	383.994	383.994	383.994	383.994
5	383.530	383.127	382.750	382.367	382.133	381.898	381.730	381.669	381.602
10	381.750	379.909	378.196	376.609	375.314	374.151	373.325	372.835	372.667
15	378.282	374.258	370.489	366.802	363.671	360.978	358.989	357.806	357.423
20	372.861	366.358	360.004	353.675	348.274	343.531	340.037	337.880	337.095
25	365.068	356.133	346.963	337.732	329.684	322.590	317.256	313.930	312.574
30	354.205	342.898	331.123	319.015	308.361	298.855	291.761	287.334	285.600
35	339.721	326.466	312.324	297.820	284.901	273.508	264.935	259.682	257.734
40	320.581	305.990	290.277	274.038	259.748	247.233	237.808	232.030	229.954
45	296.208	280.877	264.511	247.865	233.259	220.488	211.130	205.413	203.317
50	265.633	250.639	235.059	219.218	205.729	194.126	185.594	180.407	178.541
55	228.556	215.047	201.537	188.221	177.082	167.872	161.180	157.090	155.672
60	185.574	175.369	165.454	156.014	147.925	141.316	136.828	134.329	133.441
65	140.408	134.201	128.357	122.961	118.473	114.403	111.863	110.848	110.446
70	97.553	95.095	92.743	90.540	88.765	87.047	85.716	85.695	85.629
75	60.833	60.644	60.328	59.986	59.797	59.328	58.548	58.609	59.032
80	30.957	31.824	32.334	32.630	32.778	32.691	32.334	31.717	32.268
85	10.098	10.144	10.144	10.547	10.924	10.990	10.756	10.225	10.292
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	144.30	N.A.	12.40
0-30	313.68	N.A.	27.00
0-40	525.50	N.A.	45.20
0-60	950.38	N.A.	81.70
0-80	1150.06	N.A.	98.90
0-90	1163.1	N.A.	100.00
10-90	1126.48	N.A.	96.90
20-40	381.20	N.A.	32.80
20-50	606.29	N.A.	52.10
40-70	561.24	N.A.	48.30
60-80	199.68	N.A.	17.20
70-80	63.32	N.A.	5.40
80-90	13.05	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	1163.1	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	36.62
10-20	107.68
20-30	169.38
30-40	211.81
40-50	225.10
50-60	199.78
60-70	136.36
70-80	63.32
80-90	13.05
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

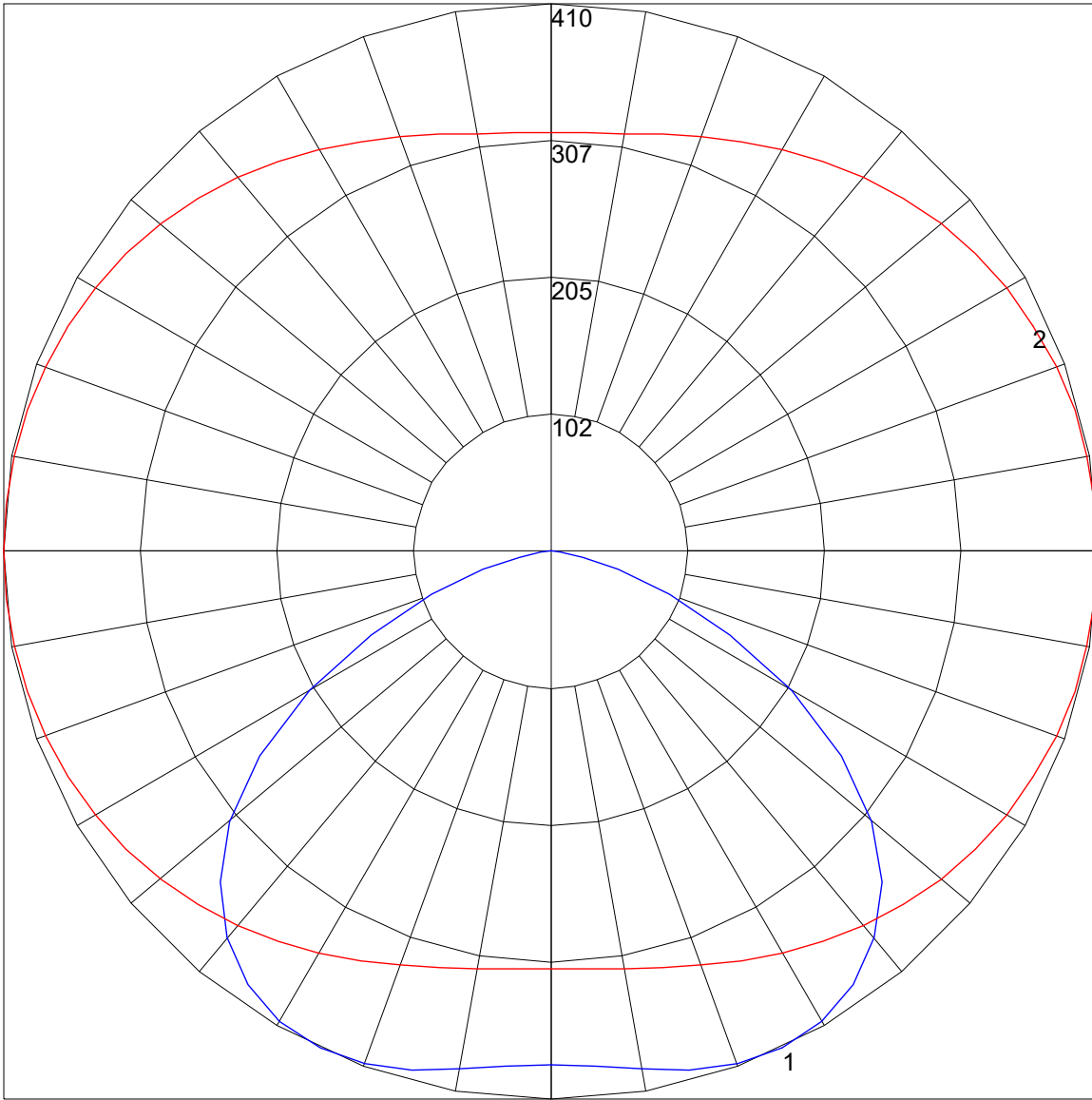
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	71	66	62	60
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51
5	76	63	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	70	57	48	42	68	56	48	42	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	57	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 = 409.724 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.)