

IES Report

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

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

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	92	95	97	99
Total Lumens, 4' rail length (1219mm)	2210	2280	2326	2373
Lumens per foot (305mm)	552	570	582	593
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	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_SO_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-SO-359-G2
[LUMINAIRE] RaceRail LED, 48", 3500K, 90 CRI, zipper board,
[MORE] 120° flywing lens, standard output
[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2326
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	97
Total Luminaire Watts	24.08
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	46395	41017	26911
55	43424	39247	25402
65	32853	32394	24459
75	18974	22098	21347
85	8232	10597	11052

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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	767.989	767.989	767.989	767.989	767.989	767.989	767.989	767.989	767.989	767.989
5	772.273	772.273	772.018	771.722	771.212	770.661	770.069	769.396	768.590	767.825
10	786.665	786.369	785.400	784.176	782.309	779.810	777.179	773.966	770.661	767.101
15	803.444	802.760	801.108	798.527	794.804	790.439	784.931	778.668	771.681	764.347
20	816.061	815.337	813.052	809.584	804.199	797.722	789.715	780.361	769.641	758.207
25	819.448	818.723	816.316	812.083	805.984	797.936	788.276	776.424	762.705	747.497
30	811.573	810.686	807.973	803.444	796.661	787.981	777.271	763.847	747.874	729.708
35	790.653	789.766	787.093	782.687	775.873	766.938	755.626	741.397	724.078	703.667
40	754.402	753.811	751.312	747.283	741.061	732.717	721.456	707.095	689.438	667.835
45	701.036	700.363	698.414	695.283	690.071	682.961	672.833	659.287	641.580	619.772
50	628.034	627.606	626.504	624.515	621.088	615.713	607.369	595.333	579.115	558.073
55	532.236	532.236	532.236	532.154	531.094	528.340	522.791	513.601	499.973	481.042
60	417.384	417.812	418.832	420.311	421.535	421.790	419.720	414.344	404.471	390.119
65	296.698	297.289	299.023	301.441	304.358	306.816	307.918	306.398	301.186	292.546
70	189.557	190.057	191.709	194.208	197.258	200.481	203.194	204.286	203.235	199.971
75	104.938	105.325	106.723	108.793	111.629	114.811	117.769	120.227	121.543	122.216
80	47.767	47.899	48.317	49.042	50.143	51.408	53.060	55.009	57.385	59.711
85	15.331	15.412	15.586	15.963	16.473	17.197	17.830	18.554	19.186	19.737
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	767.989	767.989	767.989	767.989	767.989	767.989	767.989	767.989	767.989
5	767.060	766.255	765.500	764.735	764.266	763.796	763.460	763.337	763.205
10	763.501	759.818	756.391	753.219	750.628	748.303	746.650	745.671	745.334
15	756.565	748.517	740.979	733.604	727.342	721.956	717.978	715.612	714.847
20	745.722	732.717	720.008	707.350	696.548	687.062	680.075	675.760	674.189
25	730.136	712.266	693.926	675.464	659.369	645.181	634.511	627.861	625.148
30	708.410	685.797	662.245	638.030	616.723	597.710	583.522	574.668	571.200
35	679.442	652.933	624.648	595.639	569.803	547.016	529.870	519.364	515.467
40	641.162	611.980	580.553	548.077	519.496	494.465	475.616	464.059	459.908
45	592.416	561.755	529.023	495.730	466.517	440.977	422.260	410.825	406.633
50	531.267	501.279	470.118	438.437	411.458	388.253	371.188	360.815	357.082
55	457.113	430.093	403.073	376.441	354.164	335.743	322.361	314.180	311.345
60	371.147	350.737	330.908	312.028	295.851	282.632	273.656	268.658	266.883
65	280.816	268.403	256.714	245.922	236.946	228.806	223.727	221.697	220.891
70	195.106	190.189	185.487	181.081	177.531	174.094	171.431	171.391	171.258
75	121.666	121.288	120.656	119.972	119.595	118.657	117.096	117.218	118.065
80	61.914	63.648	64.668	65.260	65.555	65.382	64.668	63.434	64.535
85	20.196	20.288	20.288	21.094	21.848	21.981	21.512	20.451	20.584
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	288.60	N.A.	12.40
0-30	627.37	N.A.	27.00
0-40	1051.00	N.A.	45.20
0-60	1900.76	N.A.	81.70
0-80	2300.12	N.A.	98.90
0-90	2326.21	N.A.	100.00
10-90	2252.96	N.A.	96.90
20-40	762.40	N.A.	32.80
20-50	1212.59	N.A.	52.10
40-70	1122.47	N.A.	48.30
60-80	399.36	N.A.	17.20
70-80	126.65	N.A.	5.40
80-90	26.09	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	2326.21	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	73.25
10-20	215.35
20-30	338.77
30-40	423.63
40-50	450.19
50-60	399.57
60-70	272.71
70-80	126.65
80-90	26.09
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

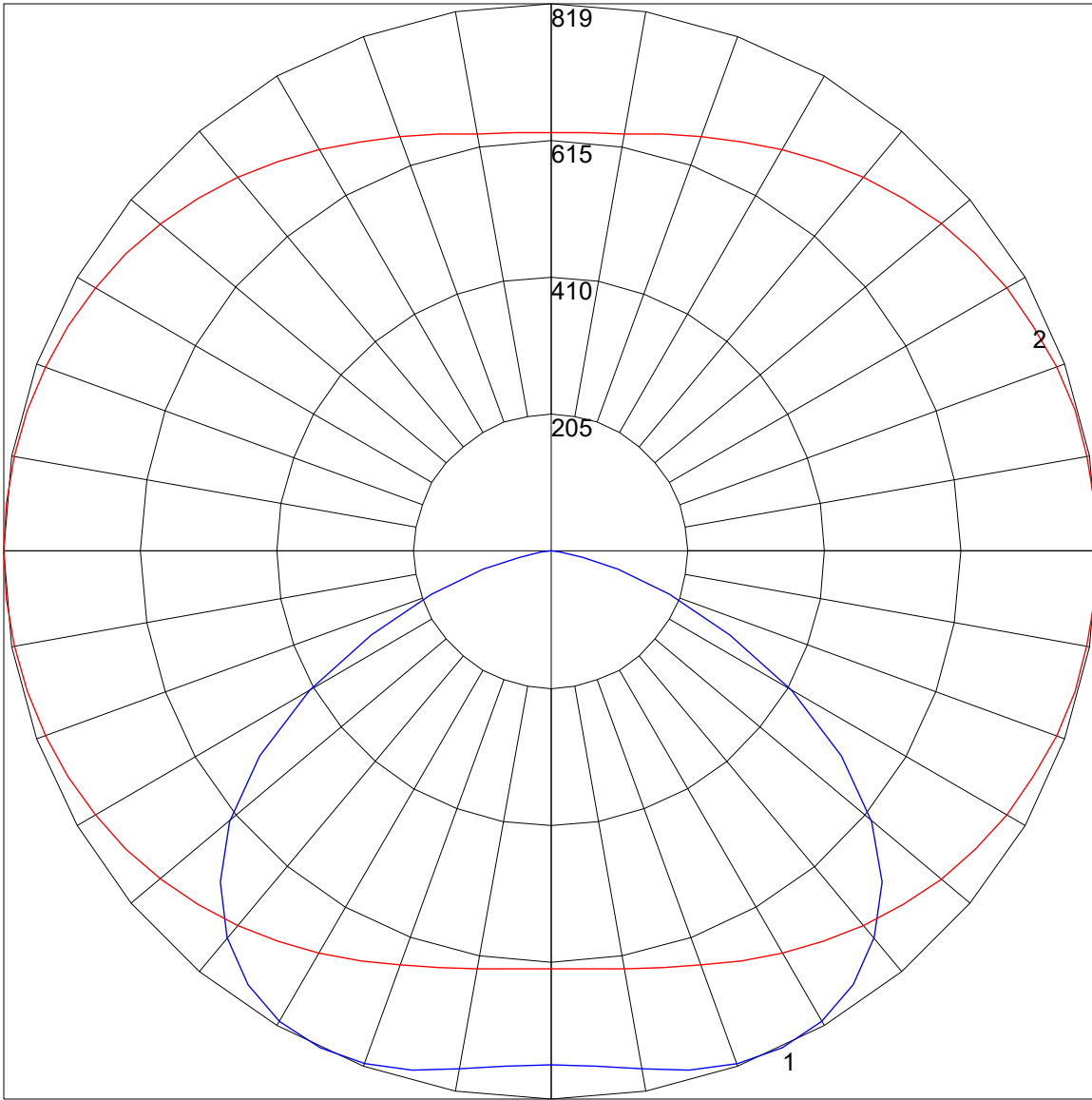
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	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 = 819.448 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.)