

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	93	96	98	99
Total Lumens, 4' rail length (1219mm)	1277	1318	1345	1358
Lumens per foot (305mm)	319	329	336	339
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	94	94	94	94

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] 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-359-G2-AL
[LUMINAIRE] RaceRail LED, 48", 3500K, 90 CRI, zipper board, 120° flying 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	1345
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	97
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	22644	20300	14389
55	20975	19514	13886
65	17049	16914	12903
75	8345	11652	10268
85	1097	1597	4657

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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	413.965	413.965	413.965	413.965	413.965	413.965	413.965	413.965	413.965	413.965
5	417.820	417.925	417.780	417.655	417.360	417.005	416.625	416.210	415.685	415.120
10	431.485	431.485	430.855	429.955	428.550	426.935	425.010	422.830	420.485	418.135
15	450.765	450.490	449.320	447.285	444.350	440.810	436.640	432.155	427.125	421.930
20	468.785	468.260	466.500	463.675	459.400	454.265	448.125	440.895	433.075	424.905
25	478.760	478.320	476.395	473.060	468.305	462.165	454.660	445.800	435.655	424.590
30	477.210	476.580	474.820	471.575	466.965	460.780	452.860	443.325	432.050	419.350
35	462.920	462.560	460.990	458.330	454.095	448.605	441.145	431.925	420.585	407.320
40	436.680	436.495	435.340	433.265	430.120	425.535	419.245	410.820	399.990	387.060
45	400.220	399.905	399.170	397.915	395.630	392.150	387.185	380.165	370.735	358.790
50	354.030	353.905	353.655	352.920	351.935	349.670	346.110	340.725	333.055	322.765
55	300.720	300.760	300.930	300.930	300.675	299.670	297.595	293.825	288.040	279.765
60	242.085	242.190	242.735	243.280	243.845	243.905	243.215	241.080	237.200	231.040
65	180.095	180.285	181.040	182.190	183.535	184.520	184.960	184.455	182.465	178.670
70	117.020	117.250	118.485	120.245	122.465	124.605	126.300	127.330	127.160	125.570
75	53.985	54.340	55.910	58.470	61.925	65.720	69.325	72.485	74.560	75.380
80	10.560	10.625	11.130	11.985	13.455	15.550	18.505	22.340	26.570	30.450
85	2.390	2.390	2.410	2.475	2.555	2.620	2.725	2.915	3.100	3.480
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	413.965	413.965	413.965	413.965	413.965	413.965	413.965	413.965	413.965
5	414.490	413.985	413.420	412.940	412.455	412.205	412.035	411.785	411.495
10	415.640	413.210	411.180	409.335	407.425	405.960	405.165	404.600	403.990
15	416.625	411.595	406.590	402.165	398.520	395.565	393.280	392.045	391.460
20	416.165	407.575	399.505	392.025	385.925	380.980	377.335	375.195	374.440
25	412.960	400.890	389.550	378.845	370.040	362.915	357.825	354.850	353.820
30	405.310	390.495	376.205	362.540	351.285	342.210	335.840	332.070	330.600
35	391.815	375.575	358.870	342.985	330.080	319.390	311.765	307.360	305.915
40	371.385	354.535	337.035	320.040	306.040	294.685	286.555	281.985	280.310
45	344.180	327.500	309.665	293.320	279.090	267.900	260.105	255.705	254.320
50	309.460	294.285	278.150	262.475	249.840	239.695	232.675	228.715	227.375
55	268.575	255.560	241.810	228.485	217.690	209.100	203.380	200.215	199.080
60	222.555	212.430	201.660	191.205	182.800	176.345	172.050	169.745	169.030
65	173.055	165.950	158.680	151.535	145.810	141.390	138.480	136.820	136.300
70	122.740	118.820	114.670	110.585	107.230	104.615	102.850	101.890	101.555
75	75.085	73.935	72.405	70.725	69.240	67.980	67.145	66.600	66.430
80	33.280	34.810	35.395	35.460	35.270	34.935	34.660	34.430	34.285
85	4.130	5.325	6.935	8.800	9.935	10.355	10.395	10.290	10.145
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	159.12	N.A.	11.80
0-30	352.75	N.A.	26.20
0-40	599.30	N.A.	44.60
0-60	1096.46	N.A.	81.50
0-80	1334.77	N.A.	99.30
0-90	1344.68	N.A.	100.00
10-90	1304.97	N.A.	97.00
20-40	440.18	N.A.	32.70
20-50	702.84	N.A.	52.30
40-70	662.49	N.A.	49.30
60-80	238.31	N.A.	17.70
70-80	72.98	N.A.	5.40
80-90	9.91	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	1344.68	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	39.71
10-20	119.41
20-30	193.63
30-40	246.55
40-50	262.66
50-60	234.49
60-70	165.33
70-80	72.98
80-90	9.91
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

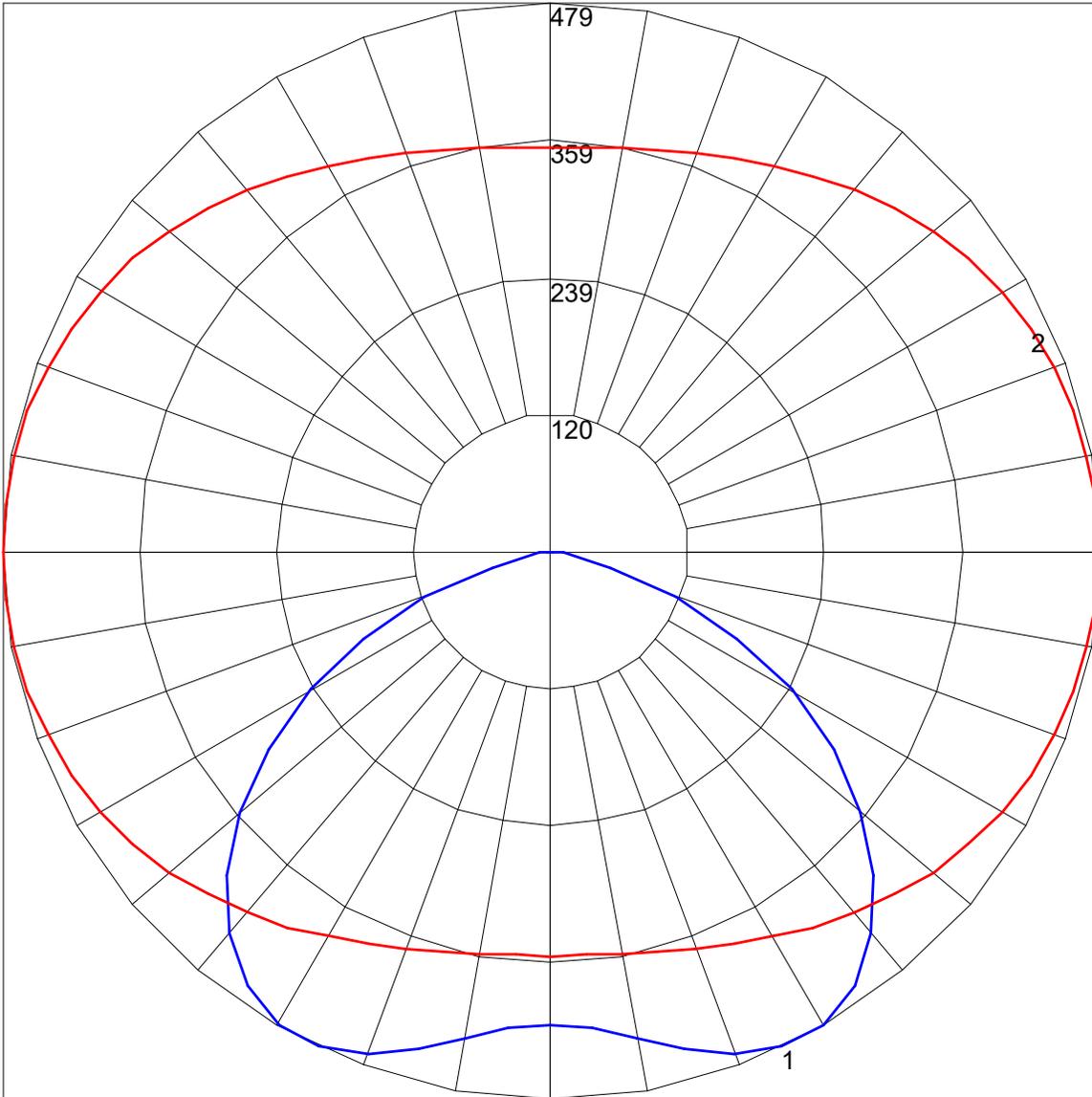
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC RW	80				70				50			30			10			0
	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	45	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 = 478.76 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.)