

IES Report

DoubleRace™ | 107 | 120° Batwing, Flat, up | Diffuse, Round, down | 90 CRI | LO

107-DR-XX-4-48-XX-XX-XX-XX-X-X-Z-LO-359-G12-X-XX-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	80	82	84	86
Total Lumens, 4' rail length (1219mm)	2373	2448	2498	2548
Lumens per foot (305mm)	593	612	625	637
Lumens per foot UP (305mm)	280	289	295	301
Lumens per foot DOWN (305mm)	314	348	330	337
Input Power (W), 4' rail length (1219mm)	29.9	29.9	29.9	29.9
Watts per foot (305mm)	7.5	7.5	7.5	7.5
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_DR_LO_359_G12.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L011800112 (SOURCE REPORT FOR REFERENCE)
[TESTLAB] REPORT BASED ON DATA PRODUCED BY NVLAP ACCREDITED LAB
[ISSUEDATE] 1/9/2018
[MANUFAC] Vode Lighting
[LUMCAT] 107-DR-48-Z-LO-359-G12
[LUMINAIRE] DoubleRace LED, 48", 3500K, 90 CRI, zipper board,
[MORE] 120° batwing lens up/round diffuse lens down, low output
[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2498
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	84
Total Luminaire Watts	29.9
Ballast Factor	1.00
CIE Type	General Diffuse
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.06 ft
Luminous Width (90-270)	3.77 ft
Luminous Height	0.17 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	5604	6844	17852
55	3753	4805	14211
65	2345	3082	11693
75	1381	1848	8726
85	711	922	5399

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	512.0	512.0	512.0	512.0	512.0	512.0	512.0	512.0	512.0	512.0
5	510.0	510.0	509.5	509.5	509.5	509.0	509.0	509.0	508.5	508.5
10	504.0	503.5	503.0	503.0	502.5	502.5	502.5	502.0	501.0	501.0
15	493.0	492.0	492.0	491.5	491.5	490.5	489.5	489.0	489.0	488.5
20	477.0	476.0	476.0	476.0	474.5	473.5	473.0	471.5	471.0	470.0
25	456.0	455.5	455.5	454.0	453.5	452.5	451.0	450.5	448.0	446.0
30	430.0	429.0	428.5	427.5	426.5	425.5	424.5	422.5	421.0	418.0
35	397.5	397.0	396.5	396.0	394.5	393.5	392.5	390.0	388.0	385.0
40	361.0	360.5	360.0	359.0	358.5	358.0	355.5	354.0	351.5	348.5
45	319.5	319.5	319.5	319.0	318.5	318.0	316.0	315.0	311.5	309.0
50	274.5	274.0	274.5	274.5	275.0	275.0	274.5	273.0	270.5	267.5
55	228.5	228.5	229.5	230.0	230.5	230.0	230.5	229.5	228.5	226.5
60	185.5	185.5	186.0	185.0	183.5	184.0	185.0	186.0	185.0	183.5
65	147.5	148.0	145.0	143.0	143.5	144.5	146.0	147.0	147.5	147.0
70	114.5	113.0	109.0	110.0	112.0	113.0	114.0	114.5	114.5	114.5
75	87.0	82.0	83.0	84.0	84.5	85.0	86.0	86.5	87.0	86.5
80	62.5	59.5	60.5	61.5	61.5	62.0	62.0	62.5	62.5	62.5
85	43.5	44.5	45.0	45.0	45.0	44.0	43.5	42.5	41.5	41.0
90	32.0	33.0	33.0	33.5	32.0	31.0	29.5	28.5	28.0	27.0
95	31.0	39.5	37.5	38.5	38.5	39.0	38.5	39.5	39.0	38.0
100	77.5	75.0	76.5	76.5	76.5	75.5	74.0	72.5	69.5	66.0
105	124.0	115.0	116.5	116.5	116.0	114.5	112.0	109.5	106.0	100.5
110	169.0	165.5	158.5	157.0	158.0	157.5	155.0	150.0	148.5	140.5
115	217.5	217.0	211.0	206.0	204.0	202.5	200.5	196.5	191.5	182.5
120	267.0	266.5	265.5	261.0	256.5	252.5	249.0	245.5	236.0	223.0
125	314.5	313.5	313.0	311.0	308.5	302.5	298.5	288.0	276.5	261.0
130	355.0	354.5	352.5	349.5	346.5	341.0	333.5	322.5	307.0	287.5
135	386.5	386.0	383.0	379.5	374.5	368.5	357.0	346.0	327.5	308.0
140	405.5	404.0	401.0	396.5	390.5	383.0	371.0	356.5	339.5	318.0
145	413.0	411.5	408.5	403.5	396.0	387.5	376.5	360.0	342.5	322.0
150	409.0	407.5	404.5	398.0	390.5	381.0	369.5	354.5	337.5	318.5
155	390.5	389.0	386.0	380.0	372.5	363.5	352.0	340.5	325.5	310.0
160	359.0	358.0	355.0	351.0	344.5	337.0	328.5	318.5	307.5	297.5
165	322.0	321.0	319.0	316.5	313.5	308.5	303.0	297.0	291.0	283.5
170	289.0	288.5	288.0	286.5	285.5	283.5	282.0	279.0	276.0	273.0
175	268.5	268.5	268.5	268.0	267.5	267.5	267.0	266.5	266.0	265.5
180	262.0	262.0	262.0	262.0	262.0	262.0	262.0	262.0	262.0	262.0

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	512.0	512.0	512.0	512.0	512.0	512.0	512.0	512.0	512.0
5	508.5	508.5	508.5	508.5	508.5	509.0	509.0	509.0	509.5
10	500.5	500.5	500.5	500.0	499.5	499.5	499.5	499.5	500.0
15	487.5	486.5	485.5	485.5	485.5	484.5	484.0	484.0	484.5
20	468.5	467.0	466.5	465.0	464.0	464.0	463.0	462.0	462.5
25	444.5	442.5	440.5	439.0	437.5	436.5	435.5	434.5	435.0
30	415.5	413.0	410.5	408.0	406.0	404.0	403.5	401.5	401.5
35	382.0	379.5	375.5	372.0	369.0	367.0	365.0	364.0	363.5
40	345.0	341.0	336.5	333.0	329.0	325.5	323.0	322.0	322.5
45	304.0	299.5	295.0	290.5	286.5	282.5	279.5	278.0	277.5
50	263.5	258.5	253.0	248.0	244.0	239.0	235.5	233.5	234.0
55	222.5	217.5	211.0	204.0	198.0	192.5	187.0	182.5	182.5
60	182.0	175.5	170.5	165.0	160.5	156.5	153.0	151.0	150.5

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_107_DR_LO_359_G12.IES

CANDELA TABULATION - (Cont.)

65	145.5	142.0	137.0	131.5	126.0	121.0	117.5	115.0	114.0
70	112.5	110.0	105.5	100.5	95.0	90.0	86.5	83.5	82.5
75	85.0	83.0	79.0	74.0	68.0	63.0	59.0	56.5	55.5
80	61.5	59.0	56.0	51.5	46.5	41.5	38.0	36.5	36.5
85	39.0	37.0	34.5	33.0	28.0	23.5	20.0	16.5	15.0
90	25.5	22.5	19.5	16.5	13.5	10.0	6.5	4.0	2.0
95	35.5	32.5	27.0	23.0	19.0	15.0	12.5	11.5	10.5
100	61.5	54.0	47.5	42.0	38.5	35.0	35.5	33.5	31.0
105	92.5	83.0	73.0	64.5	58.5	55.0	53.5	52.5	51.5
110	129.5	116.5	103.5	92.0	84.5	80.0	77.5	76.0	75.5
115	170.0	153.0	134.5	120.0	110.0	103.5	100.5	98.5	98.0
120	206.5	184.0	163.0	147.0	135.0	127.0	122.5	120.5	120.5
125	238.5	214.0	190.0	169.0	156.5	148.0	142.5	140.0	139.5
130	265.5	238.5	213.0	191.0	176.0	166.5	160.5	157.5	157.0
135	282.0	256.5	231.0	211.0	195.0	183.5	175.5	171.0	170.0
140	294.5	269.5	246.0	226.0	211.0	199.0	192.5	189.0	188.0
145	299.5	278.0	256.5	238.5	224.5	214.0	207.0	204.0	202.0
150	299.5	280.5	262.5	248.5	235.5	227.5	220.0	217.5	215.5
155	295.0	280.0	266.5	254.0	245.5	238.0	232.5	230.0	228.0
160	287.5	276.5	266.0	259.0	252.5	246.0	243.5	241.5	240.0
165	277.0	272.0	266.5	261.5	256.5	254.5	252.5	250.5	249.0
170	270.0	267.0	263.5	262.0	261.0	259.5	258.5	257.5	256.0
175	265.0	264.5	264.0	263.5	263.0	262.5	262.0	261.5	261.0
180	262.0	262.0	262.0	262.0	262.0	262.0	262.0	262.0	262.0

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_107_DR_LO_359_G12.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	185.95	N.A.	7.40
0-30	391.08	N.A.	15.70
0-40	630.11	N.A.	25.20
0-60	1057.81	N.A.	42.30
0-80	1278.85	N.A.	51.20
0-90	1319.89	N.A.	52.80
10-90	1271.54	N.A.	50.90
20-40	444.16	N.A.	17.80
20-50	678.05	N.A.	27.10
40-70	565.17	N.A.	22.60
60-80	221.04	N.A.	8.80
70-80	83.56	N.A.	3.30
80-90	41.04	N.A.	1.60
90-110	135.43	N.A.	5.40
90-120	298.34	N.A.	11.90
90-130	510.60	N.A.	20.40
90-150	928.83	N.A.	37.20
90-180	1178.28	N.A.	47.20
110-180	1042.86	N.A.	41.70
0-180	2498.17	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	48.34
10-20	137.60
20-30	205.13
30-40	239.04
40-50	233.88
50-60	193.81
60-70	137.48
70-80	83.56
80-90	41.04
90-100	38.81
100-110	96.61
110-120	162.92
120-130	212.26
130-140	222.67
140-150	195.55
150-160	142.73
160-170	81.17
170-180	25.56

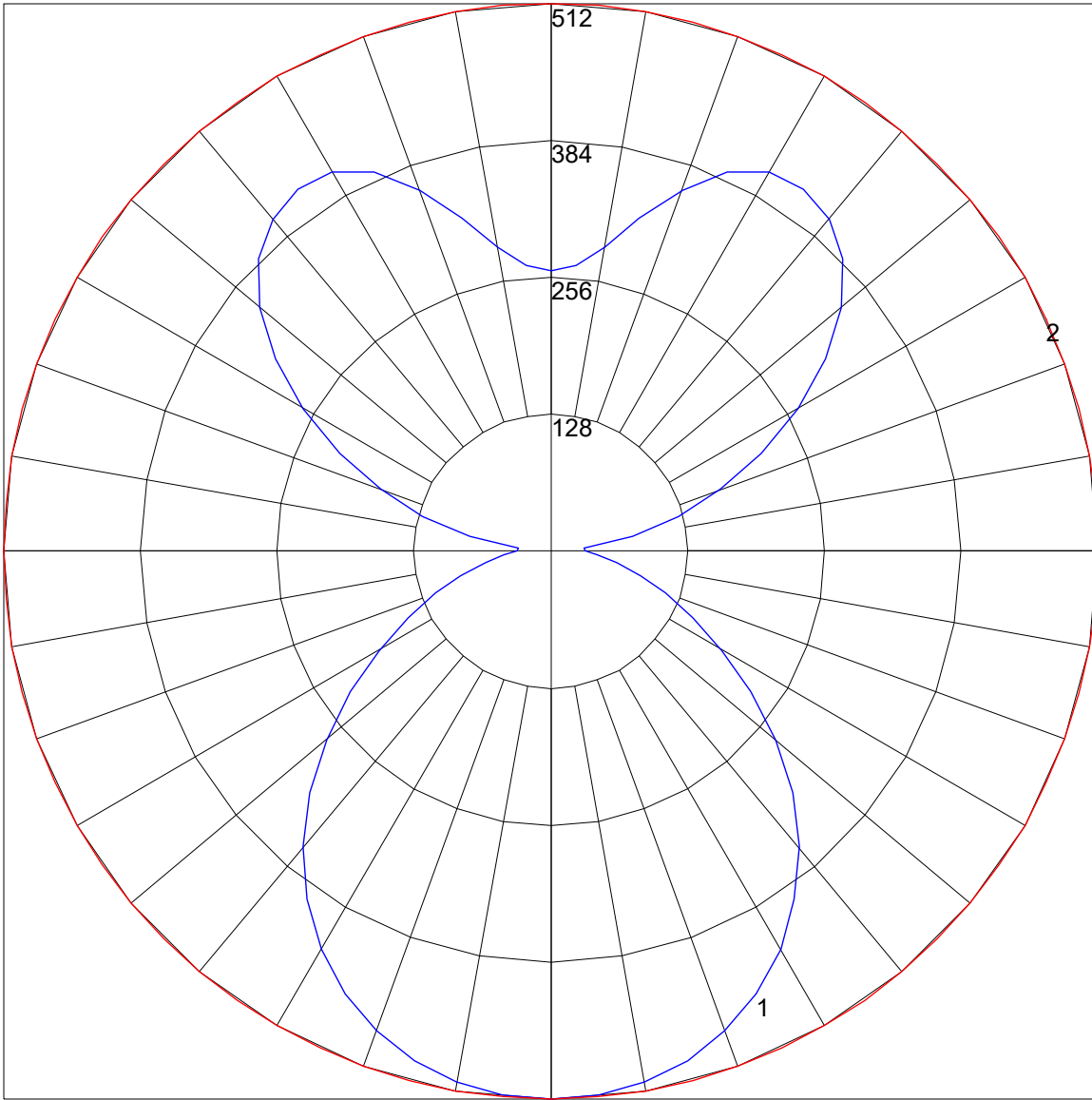
IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_107_DR_LO_359_G12.IES

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	108	108	108	108	100	100	100	100	85	85	85	71	71	71	59	59	59	53	0
1	98	94	90	86	91	87	84	80	74	72	69	62	61	59	52	50	49	44	0
2	90	82	76	71	83	76	71	66	65	61	58	55	52	49	45	43	42	37	0
3	82	72	65	59	75	67	61	55	57	53	48	49	45	42	40	38	35	31	0
4	75	64	56	50	69	60	52	47	51	46	41	43	39	36	36	33	31	27	0
5	69	57	49	43	63	53	46	40	46	40	36	39	35	31	33	29	27	24	0
6	63	51	43	37	58	48	41	35	41	36	31	35	31	27	30	26	24	21	0
7	59	46	38	33	54	43	36	31	38	32	28	32	28	24	27	24	21	18	0
8	54	42	34	29	50	39	32	27	34	29	25	29	25	22	25	21	19	17	0
9	51	38	31	26	47	36	29	25	31	26	22	27	23	20	23	20	17	15	0
10	47	35	28	23	44	33	27	22	29	24	20	25	21	18	21	18	16	14	0

POLAR GRAPH



Maximum Candela = 512 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)