

IES Report

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

107-DR-XX-4-48-XX-XX-XX-XX-X-X-Z-LO-359-G1G2-X-XX-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	75	78	79	81
Total Lumens, 4' rail length (1219mm)	2232	2302	2349	2396
Lumens per foot (305mm)	558	576	587	599
Lumens per foot UP (305mm)	278	287	292	298
Lumens per foot DOWN (305mm)	280	289	295	301
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_G1G2.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L011800111 (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-G1G2
[LUMINAIRE] DoubleRace LED, 48", 3500K, 90 CRI, zipper board,
[MORE] 120° batwing lens up/120° flywing 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	2349
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	79
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	6343	7069	13486
55	4478	5180	12431
65	2296	2975	11503
75	716	1153	8884
85	37	102	3079

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	402.065	402.065	402.065	402.065	402.065	402.065	402.065	402.065	402.065	402.065
5	405.595	405.285	404.975	404.575	404.190	403.790	403.375	402.945	402.505	402.060
10	414.395	413.780	412.965	412.060	411.035	409.895	408.635	406.270	403.900	401.515
15	423.530	422.695	421.555	420.250	418.470	415.325	411.985	408.470	404.795	400.190
20	428.720	427.740	426.555	424.840	421.580	418.175	414.300	409.030	403.660	397.380
25	428.595	427.580	426.560	423.730	420.575	416.445	411.525	406.600	398.550	390.065
30	422.575	421.470	420.140	417.500	414.080	409.700	404.640	397.750	389.495	379.795
35	410.160	409.200	407.485	405.225	401.500	397.240	392.145	383.945	375.535	364.800
40	390.275	389.400	387.630	385.085	382.040	378.390	372.045	364.815	356.190	344.490
45	361.665	361.085	359.640	357.310	354.605	351.475	345.135	339.605	329.310	319.140
50	322.765	322.075	320.840	319.180	317.675	314.865	310.205	304.405	295.605	284.155
55	272.610	271.795	271.080	270.750	270.275	266.635	265.415	258.965	252.990	244.150
60	210.125	209.680	209.360	207.195	205.080	203.910	203.440	202.860	197.740	192.775
65	144.445	144.815	141.595	139.125	139.835	141.065	143.685	142.735	142.910	141.875
70	86.730	85.705	83.455	83.905	86.780	89.190	90.790	91.915	92.605	92.915
75	45.090	42.055	43.110	44.615	45.660	47.400	49.030	50.530	52.860	53.975
80	12.000	13.215	13.560	14.070	14.885	15.885	16.910	19.010	20.565	23.750
85	2.285	2.605	2.630	2.645	2.675	2.775	2.710	2.850	3.580	4.540
90	0.910	0.935	0.915	0.895	0.895	0.915	0.975	0.915	0.915	0.955
95	11.625	15.355	13.560	14.370	15.575	17.105	17.930	21.015	20.375	19.625
100	60.245	56.185	57.315	57.990	57.650	57.415	57.520	56.680	55.210	52.975
105	106.745	100.215	101.115	101.790	100.785	100.350	99.595	97.845	96.545	92.320
110	155.320	152.920	147.855	147.320	148.935	149.165	149.075	145.335	143.335	137.165
115	210.040	209.965	205.455	202.130	200.800	200.060	198.810	195.530	191.395	185.015
120	268.290	267.690	266.360	262.980	260.090	256.390	252.900	249.240	239.920	226.805
125	319.275	318.430	317.085	315.815	313.855	308.505	304.390	293.735	282.170	265.900
130	361.540	360.660	358.660	356.090	353.070	347.795	339.935	328.820	313.280	293.125
135	393.555	392.755	390.065	386.225	381.245	375.340	363.995	352.210	333.615	314.045
140	412.525	411.330	408.205	403.600	397.675	390.115	378.225	363.835	346.795	324.395
145	420.205	418.790	415.575	410.720	403.445	394.610	383.710	367.025	349.360	328.480
150	416.555	414.980	411.805	405.770	397.935	388.150	376.705	361.695	344.195	324.945
155	398.450	396.725	393.700	387.560	379.925	370.275	358.945	346.800	331.830	316.275
160	366.360	365.130	362.145	357.960	351.450	343.975	335.365	325.060	314.190	304.055
165	328.450	327.705	325.790	323.350	319.985	315.065	309.590	303.620	297.205	289.945
170	295.695	295.295	294.385	293.270	291.865	290.180	288.220	285.450	282.530	279.460
175	275.020	274.870	274.725	274.360	274.055	273.705	273.315	272.895	272.440	271.955
180	268.500	268.500	268.500	268.500	268.500	268.500	268.500	268.500	268.500	268.500

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	402.065	402.065	402.065	402.065	402.065	402.065	402.065	402.065	402.065
5	401.610	401.160	400.715	400.275	399.850	399.440	399.010	398.665	398.325
10	399.125	396.755	394.450	393.030	391.740	390.580	389.555	388.635	387.950
15	395.465	390.990	386.615	382.390	378.265	376.025	374.120	372.465	371.340
20	390.255	382.685	375.380	368.700	362.315	356.190	352.935	350.090	348.175
25	381.570	371.720	361.315	351.225	342.450	334.575	328.605	325.065	322.805
30	368.870	356.990	344.445	331.590	319.580	309.980	301.370	297.445	295.155
35	352.330	339.465	324.105	309.270	295.120	283.345	273.850	268.650	265.675
40	331.420	316.235	300.095	283.485	268.500	255.540	245.945	239.840	236.655
45	303.925	288.950	272.280	255.495	240.595	227.990	218.680	212.530	209.625
50	271.335	256.545	240.435	225.240	211.485	199.850	191.410	186.270	184.385
55	231.355	218.005	203.845	191.295	180.485	172.285	166.250	161.925	159.640
60	185.790	173.745	163.985	156.470	149.965	144.455	140.140	137.105	136.345

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CANDELA TABULATION - (Cont.)

65	138.215	132.965	127.800	122.835	118.880	115.815	113.230	111.705	112.140
70	92.310	92.105	90.970	89.045	87.765	86.970	85.890	85.200	85.195
75	55.630	57.100	57.840	57.570	57.430	57.335	57.175	56.880	56.505
80	26.560	27.605	28.925	29.380	29.955	33.650	34.490	34.055	34.460
85	5.095	5.965	6.625	7.145	8.235	9.160	8.630	8.490	8.555
90	0.935	0.915	0.895	0.895	0.830	0.810	0.870	0.870	0.790
95	19.090	17.175	15.545	13.395	11.980	11.420	10.940	11.225	11.295
100	49.840	45.515	41.890	36.450	34.390	35.980	35.290	34.870	35.330
105	86.350	78.610	70.235	63.260	58.430	55.620	54.825	53.595	53.060
110	127.480	116.155	103.550	92.610	85.515	80.990	78.680	77.425	77.225
115	171.795	154.275	136.605	121.805	111.600	105.400	101.935	100.435	99.895
120	209.465	186.700	165.430	148.835	136.625	129.050	124.940	122.585	122.560
125	242.575	217.960	193.050	172.290	158.550	150.070	145.055	142.430	142.035
130	269.615	242.455	216.915	194.720	178.070	169.075	163.585	160.730	160.260
135	287.310	260.985	235.335	214.245	197.625	186.705	180.680	177.280	175.955
140	300.260	274.245	250.455	229.650	214.540	203.000	196.555	192.830	191.235
145	305.240	282.830	261.595	243.215	228.955	218.500	211.370	208.020	206.305
150	305.425	286.275	268.215	253.610	240.260	232.140	224.775	222.260	220.545
155	300.495	285.715	272.375	259.505	250.785	243.235	237.795	235.330	233.500
160	293.515	282.610	272.215	265.140	258.355	251.755	249.175	246.875	245.000
165	283.335	278.020	272.710	267.430	262.100	260.005	258.145	256.390	254.880
170	276.265	272.965	269.665	268.300	266.995	265.730	264.515	263.345	262.270
175	271.450	270.925	270.380	269.825	269.265	268.695	268.110	267.555	267.005
180	268.500	268.500	268.500	268.500	268.500	268.500	268.500	268.500	268.500

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	151.05	N.A.	6.40
0-30	327.59	N.A.	13.90
0-40	547.07	N.A.	23.30
0-60	981.38	N.A.	41.80
0-80	1170.52	N.A.	49.80
0-90	1179.88	N.A.	50.20
10-90	1141.53	N.A.	48.60
20-40	396.02	N.A.	16.90
20-50	627.70	N.A.	26.70
40-70	566.53	N.A.	24.10
60-80	189.14	N.A.	8.10
70-80	56.91	N.A.	2.40
80-90	9.36	N.A.	0.40
90-110	110.51	N.A.	4.70
90-120	272.73	N.A.	11.60
90-130	488.51	N.A.	20.80
90-150	914.71	N.A.	38.90
90-180	1169.48	N.A.	49.80
110-180	1058.97	N.A.	45.10
0-180	2349.36	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	38.35
10-20	112.70
20-30	176.54
30-40	219.48
40-50	231.68
50-60	202.63
60-70	132.23
70-80	56.91
80-90	9.36
90-100	21.79
100-110	88.72
110-120	162.22
120-130	215.78
130-140	226.89
140-150	199.30
150-160	145.65
160-170	82.96
170-180	26.17

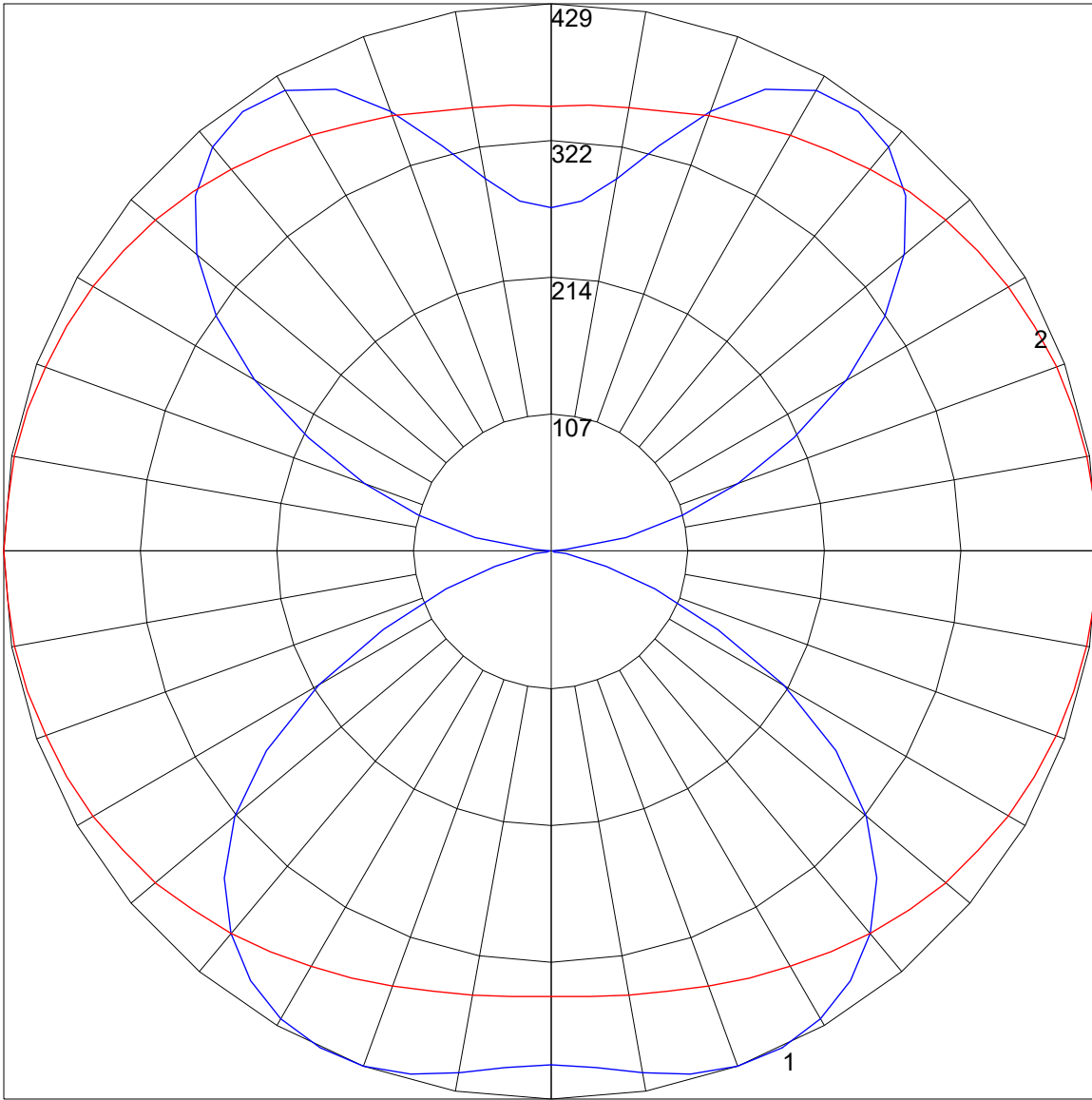
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	98	94	90	87	90	87	84	81	74	71	69	61	60	58	50	49	48	43
2	89	82	76	71	82	76	71	66	65	61	57	54	51	49	44	42	41	36
3	82	72	65	59	75	67	60	55	57	52	48	48	44	41	39	37	35	30
4	75	64	56	50	69	59	52	47	51	45	41	42	38	35	35	32	30	26
5	68	57	49	43	63	53	46	40	45	40	35	38	34	30	31	28	26	23
6	63	51	43	37	58	47	40	35	41	35	31	34	30	27	28	25	23	20
7	58	46	38	32	53	43	35	30	37	31	27	31	27	23	26	23	20	17
8	54	41	34	28	50	39	32	27	33	28	24	28	24	21	24	20	18	15
9	50	38	30	25	46	35	29	24	31	25	21	26	22	19	22	18	16	14
10	47	35	27	23	43	32	26	21	28	23	19	24	20	17	20	17	14	12

POLAR GRAPH



Maximum Candela = 428.72 Located At Horizontal Angle = 0, Vertical Angle = 20
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (20) (Through Max. Cd.)