

**IES Report**

DoubleRace™ | 107 | 120° Batwing, Flat, up | Diffuse, Round, down | 80 CRI | LO

107-DR-XX-4-48-XX-XX-XX-XX-X-X-Z-LO-35-G12-X-XX-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	93	95	97	99
Total Lumens, 4' rail length (1219mm)	2753	2840	2898	2956
Lumens per foot (305mm)	688	710	724	739
Lumens per foot UP (305mm)	325	335	342	349
Lumens per foot DOWN (305mm)	364	375	383	391
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	85	85	85	85

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\_35\_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-35-G12  
[LUMINAIRE] DoubleRace LED, 48", 3500K, 80 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	2898
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	97
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	6500	7939	20709
55	4354	5574	16485
65	2720	3576	13564
75	1602	2144	10122
85	824	1069	6263

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**CANDELA TABULATION**

	<b>0</b>	<b>5</b>	<b>10</b>	<b>15</b>	<b>20</b>	<b>25</b>	<b>30</b>	<b>35</b>	<b>40</b>	<b>45</b>
<b>0</b>	593.92	593.92	593.92	593.92	593.92	593.92	593.92	593.92	593.92	593.92
<b>5</b>	591.60	591.60	591.02	591.02	591.02	590.44	590.44	590.44	589.86	589.86
<b>10</b>	584.64	584.06	583.48	583.48	582.90	582.90	582.90	582.32	581.16	581.16
<b>15</b>	571.88	570.72	570.72	570.14	570.14	568.98	567.82	567.24	567.24	566.66
<b>20</b>	553.32	552.16	552.16	552.16	550.42	549.26	548.68	546.94	546.36	545.20
<b>25</b>	528.96	528.38	528.38	526.64	526.06	524.90	523.16	522.58	519.68	517.36
<b>30</b>	498.80	497.64	497.06	495.90	494.74	493.58	492.42	490.10	488.36	484.88
<b>35</b>	461.10	460.52	459.94	459.36	457.62	456.46	455.30	452.40	450.08	446.60
<b>40</b>	418.76	418.18	417.60	416.44	415.86	415.28	412.38	410.64	407.74	404.26
<b>45</b>	370.62	370.62	370.62	370.04	369.46	368.88	366.56	365.40	361.34	358.44
<b>50</b>	318.42	317.84	318.42	318.42	319.00	319.00	318.42	316.68	313.78	310.30
<b>55</b>	265.06	265.06	266.22	266.80	267.38	266.80	267.38	266.22	265.06	262.74
<b>60</b>	215.18	215.18	215.76	214.60	212.86	213.44	214.60	215.76	214.60	212.86
<b>65</b>	171.10	171.68	168.20	165.88	166.46	167.62	169.36	170.52	171.10	170.52
<b>70</b>	132.82	131.08	126.44	127.60	129.92	131.08	132.24	132.82	132.82	132.82
<b>75</b>	100.92	95.12	96.28	97.44	98.02	98.60	99.76	100.34	100.92	100.34
<b>80</b>	72.50	69.02	70.18	71.34	71.34	71.92	71.92	72.50	72.50	72.50
<b>85</b>	50.46	51.62	52.20	52.20	52.20	51.04	50.46	49.30	48.14	47.56
<b>90</b>	37.12	38.28	38.28	38.86	37.12	35.96	34.22	33.06	32.48	31.32
<b>95</b>	35.96	45.82	43.50	44.66	44.66	45.24	44.66	45.82	45.24	44.08
<b>100</b>	89.90	87.00	88.74	88.74	88.74	87.58	85.84	84.10	80.62	76.56
<b>105</b>	143.84	133.40	135.14	135.14	134.56	132.82	129.92	127.02	122.96	116.58
<b>110</b>	196.04	191.98	183.86	182.12	183.28	182.70	179.80	174.00	172.26	162.98
<b>115</b>	252.30	251.72	244.76	238.96	236.64	234.90	232.58	227.94	222.14	211.70
<b>120</b>	309.72	309.14	307.98	302.76	297.54	292.90	288.84	284.78	273.76	258.68
<b>125</b>	364.82	363.66	363.08	360.76	357.86	350.90	346.26	334.08	320.74	302.76
<b>130</b>	411.80	411.22	408.90	405.42	401.94	395.56	386.86	374.10	356.12	333.50
<b>135</b>	448.34	447.76	444.28	440.22	434.42	427.46	414.12	401.36	379.90	357.28
<b>140</b>	470.38	468.64	465.16	459.94	452.98	444.28	430.36	413.54	393.82	368.88
<b>145</b>	479.08	477.34	473.86	468.06	459.36	449.50	436.74	417.60	397.30	373.52
<b>150</b>	474.44	472.70	469.22	461.68	452.98	441.96	428.62	411.22	391.50	369.46
<b>155</b>	452.98	451.24	447.76	440.80	432.10	421.66	408.32	394.98	377.58	359.60
<b>160</b>	416.44	415.28	411.80	407.16	399.62	390.92	381.06	369.46	356.70	345.10
<b>165</b>	373.52	372.36	370.04	367.14	363.66	357.86	351.48	344.52	337.56	328.86
<b>170</b>	335.24	334.66	334.08	332.34	331.18	328.86	327.12	323.64	320.16	316.68
<b>175</b>	311.46	311.46	311.46	310.88	310.30	310.30	309.72	309.14	308.56	307.98
<b>180</b>	303.92	303.92	303.92	303.92	303.92	303.92	303.92	303.92	303.92	303.92

**Vert. Angles**      **Horizontal Angles**

	<b>50</b>	<b>55</b>	<b>60</b>	<b>65</b>	<b>70</b>	<b>75</b>	<b>80</b>	<b>85</b>	<b>90</b>
<b>0</b>	593.92	593.92	593.92	593.92	593.92	593.92	593.92	593.92	593.92
<b>5</b>	589.86	589.86	589.86	589.86	589.86	590.44	590.44	590.44	591.02
<b>10</b>	580.58	580.58	580.58	580.00	579.42	579.42	579.42	579.42	580.00
<b>15</b>	565.50	564.34	563.18	563.18	563.18	562.02	561.44	561.44	562.02
<b>20</b>	543.46	541.72	541.14	539.40	538.24	538.24	537.08	535.92	536.50
<b>25</b>	515.62	513.30	510.98	509.24	507.50	506.34	505.18	504.02	504.60
<b>30</b>	481.98	479.08	476.18	473.28	470.96	468.64	468.06	465.74	465.74
<b>35</b>	443.12	440.22	435.58	431.52	428.04	425.72	423.40	422.24	421.66
<b>40</b>	400.20	395.56	390.34	386.28	381.64	377.58	374.68	373.52	374.10
<b>45</b>	352.64	347.42	342.20	336.98	332.34	327.70	324.22	322.48	321.90
<b>50</b>	305.66	299.86	293.48	287.68	283.04	277.24	273.18	270.86	271.44
<b>55</b>	258.10	252.30	244.76	236.64	229.68	223.30	216.92	211.70	211.70
<b>60</b>	211.12	203.58	197.78	191.40	186.18	181.54	177.48	175.16	174.58

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**CANDELA TABULATION - (Cont.)**

<b>65</b>	168.78	164.72	158.92	152.54	146.16	140.36	136.30	133.40	132.24
<b>70</b>	130.50	127.60	122.38	116.58	110.20	104.40	100.34	96.86	95.70
<b>75</b>	98.60	96.28	91.64	85.84	78.88	73.08	68.44	65.54	64.38
<b>80</b>	71.34	68.44	64.96	59.74	53.94	48.14	44.08	42.34	42.34
<b>85</b>	45.24	42.92	40.02	38.28	32.48	27.26	23.20	19.14	17.40
<b>90</b>	29.58	26.10	22.62	19.14	15.66	11.60	7.54	4.64	2.32
<b>95</b>	41.18	37.70	31.32	26.68	22.04	17.40	14.50	13.34	12.18
<b>100</b>	71.34	62.64	55.10	48.72	44.66	40.60	41.18	38.86	35.96
<b>105</b>	107.30	96.28	84.68	74.82	67.86	63.80	62.06	60.90	59.74
<b>110</b>	150.22	135.14	120.06	106.72	98.02	92.80	89.90	88.16	87.58
<b>115</b>	197.20	177.48	156.02	139.20	127.60	120.06	116.58	114.26	113.68
<b>120</b>	239.54	213.44	189.08	170.52	156.60	147.32	142.10	139.78	139.78
<b>125</b>	276.66	248.24	220.40	196.04	181.54	171.68	165.30	162.40	161.82
<b>130</b>	307.98	276.66	247.08	221.56	204.16	193.14	186.18	182.70	182.12
<b>135</b>	327.12	297.54	267.96	244.76	226.20	212.86	203.58	198.36	197.20
<b>140</b>	341.62	312.62	285.36	262.16	244.76	230.84	223.30	219.24	218.08
<b>145</b>	347.42	322.48	297.54	276.66	260.42	248.24	240.12	236.64	234.32
<b>150</b>	347.42	325.38	304.50	288.26	273.18	263.90	255.20	252.30	249.98
<b>155</b>	342.20	324.80	309.14	294.64	284.78	276.08	269.70	266.80	264.48
<b>160</b>	333.50	320.74	308.56	300.44	292.90	285.36	282.46	280.14	278.40
<b>165</b>	321.32	315.52	309.14	303.34	297.54	295.22	292.90	290.58	288.84
<b>170</b>	313.20	309.72	305.66	303.92	302.76	301.02	299.86	298.70	296.96
<b>175</b>	307.40	306.82	306.24	305.66	305.08	304.50	303.92	303.34	302.76
<b>180</b>	303.92	303.92	303.92	303.92	303.92	303.92	303.92	303.92	303.92

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	215.70	N.A.	7.40
0-30	453.65	N.A.	15.70
0-40	730.93	N.A.	25.20
0-60	1227.06	N.A.	42.30
0-80	1483.46	N.A.	51.20
0-90	1531.07	N.A.	52.80
10-90	1474.99	N.A.	50.90
20-40	515.23	N.A.	17.80
20-50	786.53	N.A.	27.10
40-70	655.60	N.A.	22.60
60-80	256.40	N.A.	8.80
70-80	96.93	N.A.	3.30
80-90	47.61	N.A.	1.60
90-110	157.09	N.A.	5.40
90-120	346.08	N.A.	11.90
90-130	592.29	N.A.	20.40
90-150	1077.44	N.A.	37.20
90-180	1366.81	N.A.	47.20
110-180	1209.71	N.A.	41.70
0-180	2897.88	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	56.08
10-20	159.62
20-30	237.95
30-40	277.28
40-50	271.30
50-60	224.82
60-70	159.47
70-80	96.93
80-90	47.61
90-100	45.02
100-110	112.07
110-120	188.99
120-130	246.22
130-140	258.30
140-150	226.84
150-160	165.57
160-170	94.15
170-180	29.65

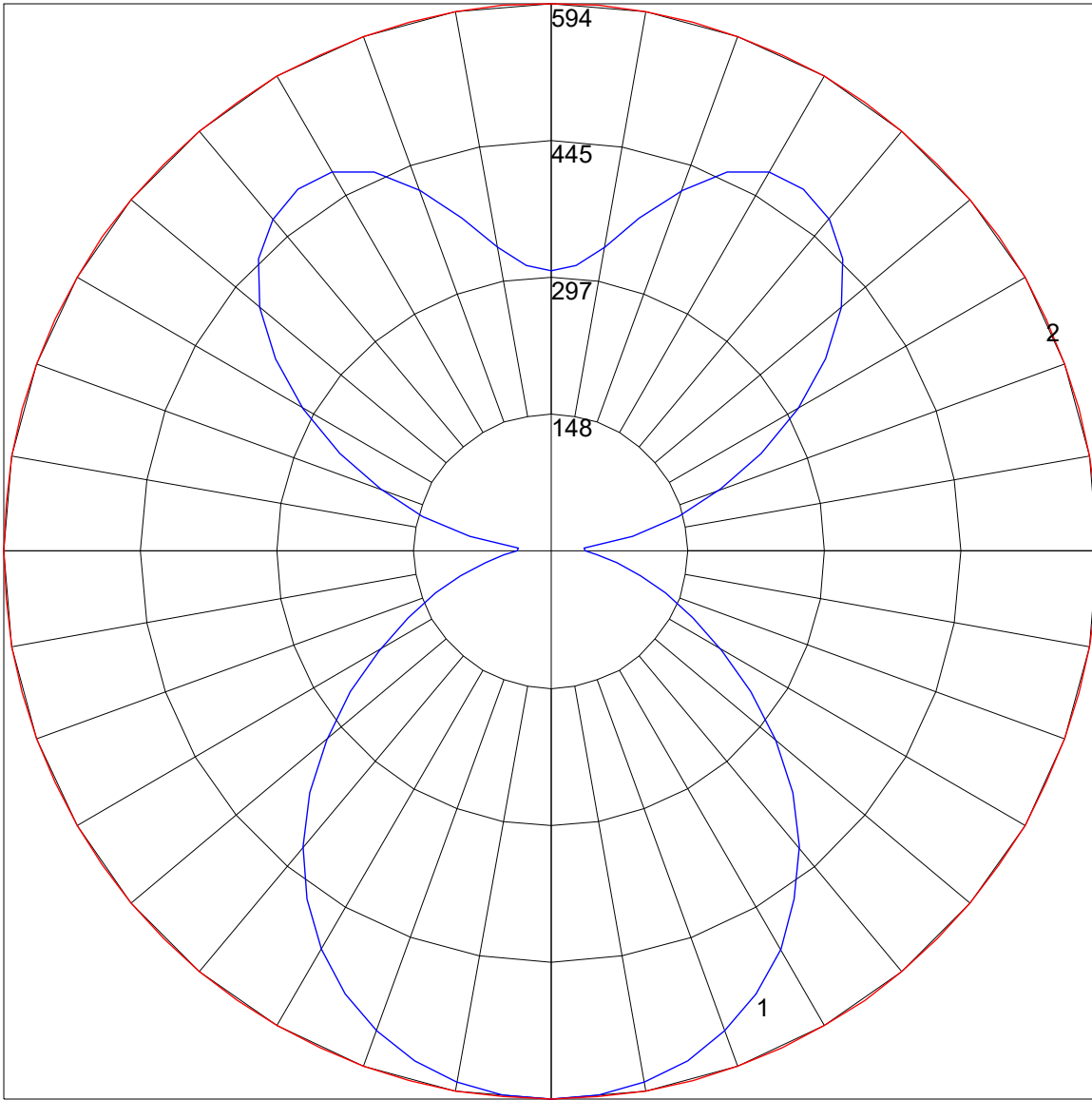
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	108	108	108	108	100	100	100	100	85	85	85	71	71	71	59	59	59	53
1	98	94	90	86	91	87	84	80	74	72	69	62	61	59	52	50	49	44
2	89	82	76	71	83	76	71	66	65	61	58	55	52	49	45	43	42	37
3	82	72	65	59	75	67	61	55	57	53	48	49	45	42	40	38	35	31
4	75	64	56	50	69	60	52	47	51	46	41	43	39	36	36	33	31	27
5	69	57	49	43	63	53	46	40	46	40	36	39	35	31	33	29	27	24
6	63	51	43	37	58	48	41	35	41	36	31	35	31	27	30	26	24	21
7	59	46	38	33	54	43	36	31	38	32	28	32	28	24	27	24	21	18
8	54	42	34	29	50	39	32	27	34	29	25	29	25	22	25	21	19	17
9	51	38	31	26	47	36	29	25	31	26	22	27	23	20	23	20	17	15
10	47	35	28	23	44	33	27	22	29	24	20	25	21	18	21	18	16	14

POLAR GRAPH



Maximum Candela = 593.92 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.)