

**IES Report**

**DoubleBox™ | 107 | 120° Batwing, up | Diffuse, down | 90 CRI | LO**

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

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	85	87	89	91
Total Lumens, 4' rail length (1219mm)	2512	2591	2644	2697
Lumens per foot (305mm)	628	648	661	674
Lumens per foot UP (305mm)	325	335	342	349
Lumens per foot DOWN (305mm)	303	313	319	326
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\_DB\_LO\_359\_G12.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] (SOURCE REPORT FOR REFERENCE)  
[TESTLAB] REPORT BASED ON DATA FROM NVLAP ACCREDITED LAB  
[ISSUEDATE] 1/9/2018  
[MANUFAC] Vode Lighting  
[LUMCAT] 107-DB-48-Z-LO-359-G12  
[LUMINAIRE] DoubleBox LED, 48", 3500K, 90 CRI, zipper board,  
[MORE] 120° batwing lens up with white polycarbonate reflectors/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	2644
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	88
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)	0.08 ft
Luminous Width (90-270)	3.77 ft
Luminous Height	0.21 ft

**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4152	5285	14688
55	2710	3605	12553
65	1553	2165	10325
75	606	1041	8041
85	66	144	4999

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>
<b>0</b>	532.5	532.5	532.5	532.5	532.5	532.5	532.5	532.5	532.5	532.5
<b>5</b>	529.5	529.0	529.0	528.5	528.5	528.5	528.5	528.0	528.0	528.0
<b>10</b>	520.0	519.5	519.5	519.0	519.0	519.5	519.5	519.0	519.0	519.0
<b>15</b>	504.5	504.0	503.5	504.0	504.0	503.5	503.5	503.5	504.5	504.5
<b>20</b>	483.0	482.0	482.5	482.5	482.0	482.0	482.5	482.5	483.0	483.5
<b>25</b>	455.5	454.5	455.0	454.5	455.0	455.0	455.0	456.5	456.0	456.0
<b>30</b>	422.5	422.0	422.0	422.0	422.0	422.5	423.5	423.5	423.5	424.0
<b>35</b>	385.0	384.5	384.0	384.5	384.5	385.0	386.0	385.5	386.5	387.0
<b>40</b>	343.0	343.0	343.0	343.0	343.5	344.0	344.5	345.0	345.5	346.5
<b>45</b>	298.5	299.0	299.0	299.0	299.5	300.0	301.0	302.5	302.0	303.5
<b>50</b>	253.0	253.0	253.0	253.5	254.5	255.0	256.5	257.0	258.0	259.0
<b>55</b>	207.0	207.0	208.0	208.5	209.0	209.5	211.0	212.0	213.5	215.0
<b>60</b>	164.0	164.0	164.0	163.0	163.0	163.0	164.5	165.5	168.5	171.0
<b>65</b>	122.0	122.5	120.5	119.5	120.0	121.0	123.0	125.5	128.0	130.0
<b>70</b>	83.5	82.0	80.5	81.0	83.5	85.0	86.5	88.5	91.0	93.5
<b>75</b>	47.5	45.0	47.0	48.0	49.5	51.0	53.0	55.5	58.0	61.0
<b>80</b>	19.5	19.0	19.5	20.5	21.0	22.0	24.0	26.5	28.5	32.5
<b>85</b>	5.0	5.5	5.5	5.5	5.5	5.5	5.5	6.0	7.0	8.0
<b>90</b>	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
<b>95</b>	18.5	21.0	21.5	22.0	23.0	23.5	24.5	26.5	25.0	25.0
<b>100</b>	75.0	68.5	70.0	70.5	70.5	70.0	69.5	69.0	67.5	64.5
<b>105</b>	130.0	121.0	122.5	123.0	122.5	122.0	120.5	118.5	116.0	111.0
<b>110</b>	188.5	184.5	177.5	177.0	178.0	176.0	173.0	172.0	167.5	160.5
<b>115</b>	248.5	248.5	242.0	236.5	234.5	233.0	231.0	227.0	221.5	211.5
<b>120</b>	307.0	306.5	305.0	300.5	296.0	292.0	288.0	283.5	273.0	259.0
<b>125</b>	360.0	359.5	358.5	356.5	354.0	348.0	343.5	332.0	319.5	302.5
<b>130</b>	406.0	405.0	403.0	400.0	397.0	391.0	383.0	371.5	355.5	334.5
<b>135</b>	442.0	441.5	439.0	435.0	430.0	424.0	413.0	402.0	382.0	362.0
<b>140</b>	468.5	467.5	464.5	460.0	454.0	446.5	434.5	419.0	401.0	377.0
<b>145</b>	484.0	482.0	478.5	473.5	465.5	456.0	445.0	426.5	407.0	384.5
<b>150</b>	483.5	481.5	477.5	471.0	462.5	451.5	439.0	422.5	403.5	383.0
<b>155</b>	464.5	462.5	459.0	452.5	444.5	434.0	422.0	409.0	392.0	375.0
<b>160</b>	431.5	430.5	427.0	422.5	415.0	406.5	397.0	385.5	373.5	362.5
<b>165</b>	391.0	390.0	387.5	385.0	381.0	375.5	369.0	362.5	355.0	347.0
<b>170</b>	354.0	353.5	352.5	351.0	349.5	347.5	345.0	342.0	339.0	335.5
<b>175</b>	330.5	330.5	330.0	329.5	329.5	329.0	328.5	328.0	327.5	327.0
<b>180</b>	323.0	323.0	323.0	323.0	323.0	323.0	323.0	323.0	323.0	323.0

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>
<b>0</b>	532.5	532.5	532.5	532.5	532.5	532.5	532.5	532.5	532.5
<b>5</b>	528.0	528.5	528.5	528.5	528.5	529.0	529.0	529.0	529.5
<b>10</b>	519.0	519.5	520.0	519.5	519.5	519.5	519.5	520.0	520.5
<b>15</b>	504.5	504.5	504.5	504.5	505.5	505.0	505.0	505.5	506.0
<b>20</b>	483.5	483.5	484.0	483.5	484.0	485.0	484.5	484.5	485.5
<b>25</b>	457.0	457.0	457.0	457.5	457.5	458.0	458.0	457.5	458.0
<b>30</b>	424.5	424.5	425.0	425.0	426.5	426.5	427.5	426.0	426.5
<b>35</b>	387.5	388.5	388.0	388.5	389.0	389.5	390.0	389.5	390.5
<b>40</b>	347.0	347.5	348.0	348.5	348.5	348.5	348.5	349.0	350.0
<b>45</b>	303.5	304.0	304.5	305.0	306.0	305.5	305.5	306.0	307.5
<b>50</b>	260.5	260.5	260.5	261.0	262.0	261.5	261.5	261.5	261.0
<b>55</b>	216.0	216.5	216.5	217.5	217.5	217.5	217.0	217.5	218.0
<b>60</b>	173.5	172.0	173.5	175.5	176.0	175.0	173.5	172.0	171.5

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**CANDELA TABULATION - (Cont.)**

<b>65</b>	133.5	135.0	136.0	137.0	137.0	137.0	137.0	136.5	137.0
<b>70</b>	96.0	98.0	100.0	101.0	101.5	102.0	102.0	102.0	102.5
<b>75</b>	63.5	66.0	68.0	69.0	70.0	70.0	70.5	71.0	70.5
<b>80</b>	34.5	37.0	41.5	43.0	43.0	42.5	43.0	43.5	43.0
<b>85</b>	9.5	11.0	13.0	16.0	17.5	18.0	19.5	20.0	20.0
<b>90</b>	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
<b>95</b>	24.0	21.0	18.5	17.0	14.5	13.5	13.0	13.0	12.5
<b>100</b>	60.5	55.0	48.5	44.5	42.0	40.0	39.5	39.5	39.0
<b>105</b>	103.0	93.5	83.5	75.0	69.5	66.5	65.5	65.0	65.0
<b>110</b>	149.5	135.5	121.0	109.5	101.0	97.0	95.5	94.0	93.5
<b>115</b>	196.0	174.5	157.0	143.0	132.5	126.5	123.5	122.0	121.5
<b>120</b>	240.5	217.5	193.0	175.0	163.0	155.0	150.5	149.0	149.0
<b>125</b>	277.5	251.0	225.0	203.5	189.5	178.0	170.5	168.5	167.5
<b>130</b>	310.0	281.0	254.0	231.0	214.0	203.5	197.5	194.5	193.5
<b>135</b>	333.0	305.0	277.5	255.0	237.5	225.5	219.0	215.0	213.5
<b>140</b>	351.0	323.0	297.5	274.5	258.0	245.0	238.0	234.0	232.5
<b>145</b>	359.5	335.5	312.0	291.5	275.5	264.0	256.0	252.0	250.0
<b>150</b>	362.0	341.0	321.0	304.5	289.5	280.0	272.0	269.0	267.0
<b>155</b>	358.0	341.5	326.5	312.0	302.0	293.5	287.0	284.0	282.0
<b>160</b>	350.5	338.5	326.5	318.5	311.0	303.0	300.5	298.0	296.0
<b>165</b>	339.5	333.5	327.5	321.5	315.5	313.0	311.0	309.0	307.5
<b>170</b>	331.5	328.0	324.0	322.5	321.0	319.5	318.5	317.0	315.5
<b>175</b>	326.5	325.5	325.0	324.5	324.0	323.0	322.5	322.0	321.5
<b>180</b>	323.0	323.0	323.0	323.0	323.0	323.0	323.0	323.0	323.0

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	192.31	N.A.	7.30
0-30	402.28	N.A.	15.20
0-40	644.04	N.A.	24.40
0-60	1068.46	N.A.	40.40
0-80	1261.55	N.A.	47.70
0-90	1276.12	N.A.	48.30
10-90	1225.94	N.A.	46.40
20-40	451.73	N.A.	17.10
20-50	685.18	N.A.	25.90
40-70	553.19	N.A.	20.90
60-80	193.09	N.A.	7.30
70-80	64.31	N.A.	2.40
80-90	14.57	N.A.	0.60
90-110	133.14	N.A.	5.00
90-120	322.59	N.A.	12.20
90-130	570.09	N.A.	21.60
90-150	1065.15	N.A.	40.30
90-180	1368.16	N.A.	51.70
110-180	1235.02	N.A.	46.70
0-180	2644.28	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	50.18
10-20	142.13
20-30	209.97
30-40	241.76
40-50	233.45
50-60	190.97
60-70	128.78
70-80	64.31
80-90	14.57
90-100	26.91
100-110	106.24
110-120	189.45
120-130	247.49
130-140	261.71
140-150	233.35
150-160	172.41
160-170	99.17
170-180	31.44

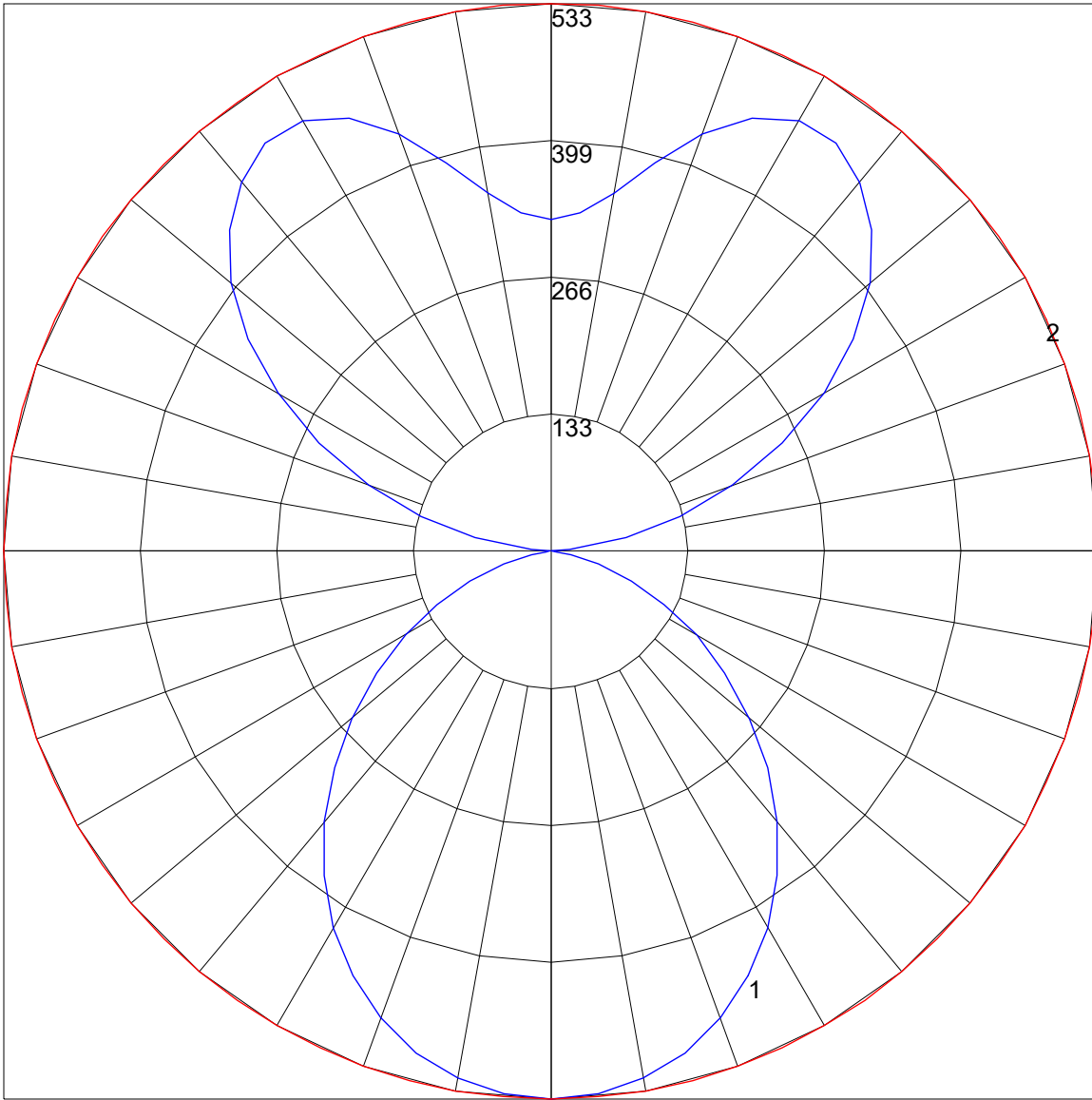
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	98	98	98	98	82	82	82	68	68	68	55	55	55	48	0
1	98	94	90	86	90	86	83	80	73	70	68	60	59	57	49	48	47	41	0
2	89	82	76	71	82	76	71	66	64	60	57	53	51	48	43	41	40	35	0
3	82	72	65	59	75	67	61	56	57	52	48	47	44	41	38	36	34	30	0
4	75	64	56	50	69	59	53	47	50	45	41	42	38	35	35	32	30	26	0
5	69	57	49	43	63	53	46	41	45	40	36	38	34	31	31	28	26	23	0
6	63	51	43	38	58	48	41	36	41	35	31	34	30	27	28	25	23	20	0
7	59	46	39	33	54	43	36	31	37	32	28	31	27	24	26	23	20	18	0
8	54	42	35	29	50	39	32	28	34	28	25	29	24	21	24	21	18	16	0
9	51	39	31	26	47	36	29	25	31	26	22	26	22	19	22	19	17	14	0
10	47	35	28	23	44	33	27	22	29	23	20	24	20	17	20	17	15	13	0

POLAR GRAPH



Maximum Candela = 532.5 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.)