

**IES Report**

**DoubleBox™ | 107 | 120° Batwing, up | 40° Symmetric, down | 90 CRI | LO**

107-DB-XX-4-48-XX-XX-XX-XX-X-X-Z-LO-359-G1S1-X-AL / WH-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	61	63	65	66
Total Lumens, 4' rail length (1219mm)	1821	1879	1917	1955
Lumens per foot (305mm)	455	470	479	489
Lumens per foot UP (305mm)	318	328	335	341
Lumens per foot DOWN (305mm)	138	142	145	148
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\_G1S1.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] L011800103 (SOURCE REPORT FOR REFERENCE)  
[TESTLAB] REPORT BASED ON DATA PRODUCED BY NVLAP ACCREDITED LAB  
[ISSUEDATE] 1/12/2018  
[MANUFAC] Vode Lighting  
[LUMCAT] 107-DB-48-Z-LO-359-G1S1  
[LUMINAIRE] DoubleBox LED, 48", 3500K, 90 CRI, zipper board,  
[MORE] 120° batwing lens up with white polycarbonate reflectors/40° white symmetric 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	1917
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	64
Total Luminaire Watts	29.9
Ballast Factor	1.00
CIE Type	Semi-Indirect
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	563	1167	10675
55	353	637	6622
65	229	366	4032
75	121	188	2509
85	7	27	875

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>	550.0	550.0	550.0	550.0	550.0	550.0	550.0	550.0	550.0	550.0
<b>5</b>	523.5	523.5	523.5	523.5	524.0	525.0	525.5	526.5	528.0	529.5
<b>10</b>	449.0	449.0	450.0	452.5	456.0	460.5	466.0	472.0	479.0	486.5
<b>15</b>	345.5	345.5	349.0	354.5	362.0	370.5	381.5	394.0	409.0	424.5
<b>20</b>	239.5	240.5	246.0	253.5	262.5	274.5	289.0	306.0	324.5	345.5
<b>25</b>	157.0	158.0	162.5	169.0	178.0	190.0	205.0	221.5	242.5	267.0
<b>30</b>	101.0	101.5	105.0	111.0	118.5	128.0	138.5	154.0	173.5	193.5
<b>35</b>	69.5	70.0	72.0	75.5	80.5	86.5	94.0	106.5	119.0	136.0
<b>40</b>	51.0	51.5	52.5	55.0	58.5	61.5	67.5	74.5	82.5	96.0
<b>45</b>	40.5	41.0	41.5	43.0	45.0	46.5	50.5	54.0	60.5	67.0
<b>50</b>	33.0	33.0	33.5	34.5	36.0	37.5	39.0	42.0	45.0	50.5
<b>55</b>	27.0	27.5	28.0	28.5	29.0	30.0	31.0	33.0	35.0	38.0
<b>60</b>	22.5	22.5	22.5	23.0	23.0	23.5	24.5	25.5	27.0	29.0
<b>65</b>	18.0	18.0	18.0	18.0	18.0	18.5	19.0	19.5	20.5	22.0
<b>70</b>	13.5	13.5	13.5	13.5	14.0	14.0	14.5	14.5	15.0	16.0
<b>75</b>	9.5	9.5	9.5	10.0	10.0	10.0	10.0	10.0	10.5	11.0
<b>80</b>	4.5	4.0	5.0	5.0	5.0	5.0	5.5	5.5	6.0	6.0
<b>85</b>	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.5	1.5
<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>	21.0	21.0	20.5	20.5	21.0	21.0	22.0	22.5	23.5	23.5
<b>100</b>	71.5	64.5	66.0	66.0	66.0	65.5	65.0	64.5	63.0	62.0
<b>105</b>	123.5	114.5	116.0	116.5	116.0	116.0	115.0	113.0	111.0	106.5
<b>110</b>	182.0	178.0	169.5	168.5	170.0	170.5	168.5	166.0	159.0	153.5
<b>115</b>	240.5	240.0	233.0	227.5	225.5	224.5	223.0	219.5	214.0	204.5
<b>120</b>	298.0	297.0	296.0	291.5	286.5	282.5	279.0	274.5	265.5	252.5
<b>125</b>	352.0	351.0	350.0	348.5	345.5	339.5	335.5	324.5	313.0	296.5
<b>130</b>	399.0	398.0	396.0	393.0	390.0	384.5	376.5	365.0	349.5	328.5
<b>135</b>	435.5	434.5	432.5	428.5	423.5	417.5	406.5	395.0	375.5	355.0
<b>140</b>	461.5	460.0	457.0	452.5	446.5	439.0	426.5	411.0	393.0	369.5
<b>145</b>	475.0	473.0	469.5	464.5	456.5	447.0	436.0	417.5	399.0	377.0
<b>150</b>	473.0	471.5	468.0	461.0	452.5	442.0	429.5	413.5	395.5	376.0
<b>155</b>	454.5	452.5	449.5	443.0	435.0	425.0	413.0	400.5	384.5	368.5
<b>160</b>	422.5	421.5	418.5	414.0	407.0	399.0	390.0	379.0	367.5	356.5
<b>165</b>	383.5	383.0	381.0	378.0	374.5	369.0	363.5	357.0	350.0	342.0
<b>170</b>	348.5	348.0	347.0	346.0	344.5	342.5	340.5	337.5	334.0	331.0
<b>175</b>	326.0	326.0	325.5	325.5	325.0	324.5	324.0	323.5	323.0	322.5
<b>180</b>	318.5	318.5	318.5	318.5	318.5	318.5	318.5	318.5	318.5	318.5

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>	550.0	550.0	550.0	550.0	550.0	550.0	550.0	550.0	550.0
<b>5</b>	531.0	532.5	534.5	536.5	538.5	540.5	542.5	545.0	547.5
<b>10</b>	495.5	505.0	515.0	518.5	522.0	526.0	530.0	534.5	539.0
<b>15</b>	439.5	452.5	467.0	482.5	500.0	505.5	511.5	518.0	525.0
<b>20</b>	367.5	390.5	414.5	433.5	454.5	477.0	484.0	492.0	501.0
<b>25</b>	293.5	320.0	347.5	377.0	402.0	427.0	446.0	454.5	465.0
<b>30</b>	219.0	248.5	278.0	310.0	343.0	370.0	398.0	407.0	418.5
<b>35</b>	158.0	182.5	212.0	242.0	275.0	305.5	333.5	347.5	358.5
<b>40</b>	110.0	131.0	153.5	179.0	208.5	239.5	265.0	281.0	290.5
<b>45</b>	78.5	91.5	109.5	130.5	153.5	177.0	199.0	215.5	223.5
<b>50</b>	56.5	65.5	78.0	93.0	110.0	128.0	144.5	157.0	162.5
<b>55</b>	42.5	48.0	55.5	65.5	77.5	90.0	101.5	110.5	115.0
<b>60</b>	32.0	35.5	40.5	47.0	54.5	62.5	70.5	76.5	79.5

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**CANDELA TABULATION - (Cont.)**

<b>65</b>	24.0	26.0	29.5	33.5	38.5	44.0	48.5	52.0	53.5
<b>70</b>	17.0	18.5	20.5	23.0	26.0	29.0	32.5	38.0	38.0
<b>75</b>	11.5	12.5	13.5	15.0	16.5	18.5	19.5	21.0	22.0
<b>80</b>	6.5	7.0	7.5	8.0	9.0	9.5	10.5	11.0	11.5
<b>85</b>	2.0	2.0	2.5	2.5	3.5	3.5	3.5	3.5	3.5
<b>90</b>	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
<b>95</b>	22.0	20.0	18.0	16.0	14.0	13.5	12.5	12.5	13.0
<b>100</b>	58.5	53.0	47.5	43.5	40.5	39.0	38.5	38.0	38.0
<b>105</b>	99.5	90.5	81.5	73.0	67.5	65.5	63.5	62.5	63.5
<b>110</b>	144.0	132.0	118.5	107.0	99.5	95.0	92.5	91.0	91.0
<b>115</b>	188.5	170.0	155.0	140.5	130.5	124.0	120.5	119.0	118.5
<b>120</b>	235.0	213.0	190.5	172.0	159.0	151.5	147.5	145.5	145.5
<b>125</b>	273.0	247.5	222.0	200.0	185.0	175.5	170.0	167.5	167.0
<b>130</b>	305.0	277.0	250.5	227.5	210.5	200.5	194.0	190.5	189.5
<b>135</b>	327.5	300.5	273.5	251.0	233.5	222.0	215.0	211.5	210.0
<b>140</b>	344.5	317.5	292.5	270.0	254.0	241.5	234.5	230.0	228.0
<b>145</b>	352.5	329.0	306.5	286.5	271.0	259.5	252.0	248.0	246.0
<b>150</b>	355.5	335.0	315.5	299.5	285.0	276.0	267.5	265.0	263.0
<b>155</b>	352.0	336.0	321.0	307.0	297.5	289.0	283.0	280.0	278.0
<b>160</b>	345.0	333.0	321.5	314.0	306.5	299.0	296.5	294.0	292.0
<b>165</b>	334.5	329.0	323.0	317.0	311.5	309.0	307.0	305.0	303.5
<b>170</b>	327.5	323.5	320.0	318.5	317.0	315.5	314.0	313.0	311.5
<b>175</b>	322.0	321.5	321.0	320.5	319.5	319.0	318.5	318.0	317.0
<b>180</b>	318.5	318.5	318.5	318.5	318.5	318.5	318.5	318.5	318.5

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	168.56	N.A.	8.80
0-30	301.02	N.A.	15.70
0-40	410.15	N.A.	21.40
0-60	533.74	N.A.	27.80
0-80	575.93	N.A.	30.00
0-90	579.00	N.A.	30.20
10-90	529.55	N.A.	27.60
20-40	241.59	N.A.	12.60
20-50	317.36	N.A.	16.60
40-70	151.84	N.A.	7.90
60-80	42.18	N.A.	2.20
70-80	13.94	N.A.	0.70
80-90	3.07	N.A.	0.20
90-110	127.48	N.A.	6.70
90-120	311.18	N.A.	16.20
90-130	553.63	N.A.	28.90
90-150	1040.08	N.A.	54.30
90-180	1337.99	N.A.	69.80
110-180	1210.51	N.A.	63.10
0-180	1916.98	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	49.45
10-20	119.11
20-30	132.46
30-40	109.13
40-50	75.78
50-60	47.82
60-70	28.25
70-80	13.94
80-90	3.07
90-100	25.50
100-110	101.98
110-120	183.70
120-130	242.45
130-140	257.39
140-150	229.06
150-160	169.25
160-170	97.64
170-180	31.01

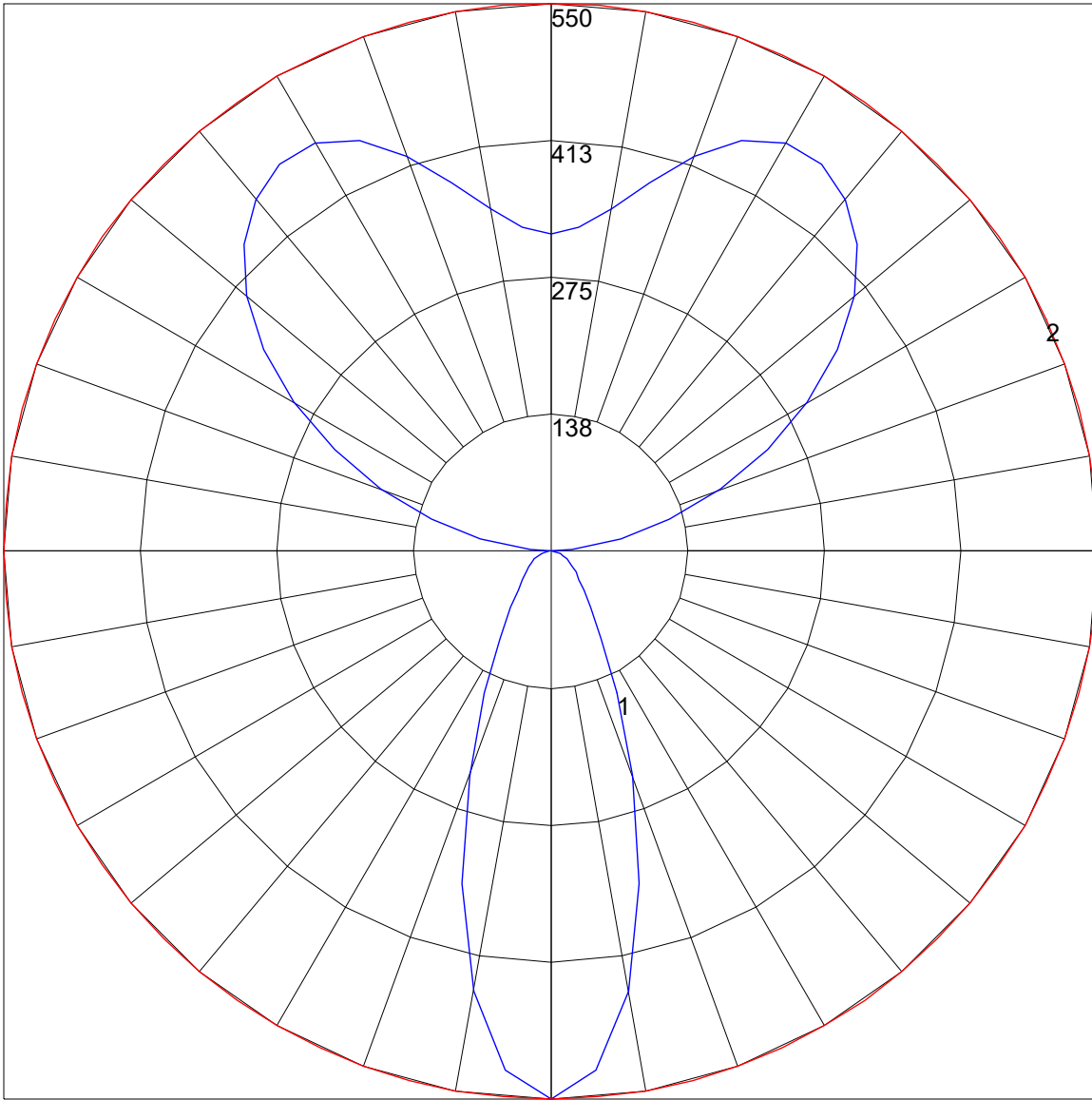
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	102	102	102	102	92	92	92	92	72	72	72	54	54	54	38	38	38	30
1	94	90	87	84	85	81	78	76	65	63	61	49	48	47	35	34	34	27
2	87	80	74	70	78	72	68	64	58	55	52	44	42	41	32	31	30	24
3	80	71	65	59	71	64	59	54	52	48	45	40	38	35	29	28	27	22
4	73	64	56	51	66	58	52	47	47	42	39	36	34	31	27	25	24	20
5	68	57	50	44	61	52	46	41	42	38	34	33	30	28	25	23	21	18
6	63	52	44	39	56	47	41	36	38	34	31	30	27	25	23	21	20	16
7	58	47	40	35	52	43	37	32	35	31	27	28	25	23	21	19	18	15
8	54	43	36	31	49	39	33	29	32	28	25	26	23	21	20	18	16	14
9	51	39	33	28	46	36	30	26	30	25	22	24	21	19	19	17	15	13
10	47	36	30	25	43	33	28	24	28	23	20	22	19	17	17	15	14	12

POLAR GRAPH



Maximum Candela = 550 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.)