

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	56	58	59	60
Total Lumens, 4' rail length (1219mm)	1659	1712	1747	1782
Lumens per foot (305mm)	415	428	437	445
Lumens per foot UP (305mm)	301	310	317	323
Lumens per foot DOWN (305mm)	114	118	120	122
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_BL.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L011800107 (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-BL
[LUMINAIRE] DoubleBox LED, 48", 3500K, 90 CRI, zipper board,
[MORE] 120° batwing lens up with white polycarbonate reflectors/40° black 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	1747
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	58
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	230	784	8478
55	98	293	4492
65	51	125	2148
75	26	60	1084
85	7	9	500

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	509.5	509.5	509.5	509.5	509.5	509.5	509.5	509.5	509.5	509.5
5	487.5	487.0	487.0	487.5	487.5	488.0	489.0	490.0	491.0	492.0
10	423.0	423.0	424.0	426.5	429.5	433.5	438.0	443.5	449.5	456.0
15	333.5	333.5	336.5	341.5	348.0	356.5	367.0	379.0	392.5	406.0
20	230.0	230.0	234.5	242.0	253.0	267.0	283.0	298.5	315.5	333.0
25	143.0	145.0	151.0	159.5	171.5	183.5	196.5	212.5	231.5	253.5
30	84.0	85.0	89.0	98.0	107.0	116.0	126.0	140.5	159.5	178.5
35	48.0	48.5	51.5	57.0	63.0	69.0	76.0	89.0	101.5	118.5
40	26.5	27.5	29.5	32.5	36.0	39.5	46.0	54.0	63.5	76.5
45	16.5	17.0	18.0	19.5	21.0	23.0	28.0	32.5	39.0	45.0
50	11.0	11.0	11.5	12.5	13.0	15.0	17.5	20.0	23.5	28.5
55	7.5	7.5	8.0	8.5	9.0	10.0	11.0	12.5	15.0	17.5
60	5.5	5.5	5.5	6.0	6.5	7.0	7.5	8.5	10.0	11.5
65	4.0	4.0	4.0	4.5	4.5	5.0	5.5	6.0	6.5	7.5
70	3.0	3.0	3.0	3.5	3.5	3.5	4.0	4.0	4.5	5.0
75	2.0	2.0	2.0	2.5	2.5	2.5	2.5	3.0	3.0	3.5
80	0.5	1.0	1.0	1.0	1.0	1.0	1.5	1.5	1.5	2.0
85	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
90	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
95	19.0	20.0	20.0	20.5	21.0	22.0	23.5	23.5	23.0	22.5
100	68.0	63.0	64.0	64.0	64.0	63.5	63.5	64.0	61.5	59.0
105	119.5	111.5	112.0	113.0	112.5	112.5	111.5	109.5	107.5	103.0
110	175.5	172.5	165.0	164.5	165.5	165.0	164.0	161.0	155.5	147.5
115	232.5	232.0	226.5	220.5	218.5	217.0	216.0	212.0	207.0	197.5
120	288.0	287.5	286.5	283.5	279.0	275.0	271.5	267.0	257.5	243.5
125	341.5	340.5	339.5	338.0	335.5	330.0	325.5	314.0	302.0	285.0
130	385.0	384.5	382.5	380.0	376.5	371.5	363.5	351.5	335.5	314.5
135	420.0	419.0	417.0	413.0	408.0	402.0	391.5	380.0	360.0	339.5
140	444.5	443.0	440.0	435.5	430.0	422.5	410.0	394.5	376.0	352.0
145	457.0	455.5	452.0	447.0	439.0	429.5	418.0	399.5	380.0	357.5
150	455.0	453.0	449.0	442.5	434.0	423.0	410.5	394.0	375.0	354.0
155	433.5	432.0	428.5	422.0	414.0	403.5	391.0	378.0	361.5	344.0
160	399.0	398.0	394.5	390.0	382.5	374.5	365.0	353.5	341.5	330.0
165	357.0	356.0	354.0	351.0	347.0	341.5	335.5	329.0	322.0	313.5
170	319.0	318.5	317.5	316.5	315.0	313.0	310.5	307.5	304.5	301.0
175	295.5	295.0	295.0	294.5	294.0	294.0	293.5	293.0	292.5	292.0
180	287.5	287.5	287.5	287.5	287.5	287.5	287.5	287.5	287.5	287.5

Vert. 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	509.5	509.5	509.5	509.5	509.5	509.5	509.5	509.5	509.5
5	493.0	494.5	496.0	498.0	499.5	501.5	503.5	505.0	507.0
10	463.5	471.0	479.5	482.5	485.5	489.0	492.5	496.5	500.5
15	417.5	427.5	438.5	450.5	464.0	468.5	473.5	478.5	484.5
20	351.0	370.5	391.0	405.5	422.0	439.5	445.5	452.0	460.0
25	277.5	301.5	326.5	353.5	373.5	393.5	409.0	416.5	425.0
30	202.5	231.5	260.0	289.0	318.5	340.0	363.0	371.0	381.0
35	141.0	166.0	193.5	221.0	251.5	278.0	301.5	313.0	322.5
40	90.5	112.5	134.0	157.5	184.5	211.0	232.5	246.5	255.0
45	56.5	69.5	86.5	107.0	128.0	150.5	166.0	174.5	177.5
50	34.5	43.0	54.5	68.0	82.5	98.5	111.5	121.0	127.0
55	21.5	26.5	33.0	41.5	51.0	61.0	70.0	76.0	78.0
60	13.5	16.5	20.5	25.5	31.5	38.0	43.5	45.5	47.5

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CANDELA TABULATION - (Cont.)

65	9.0	10.5	13.0	16.0	19.0	22.5	25.5	27.5	28.5
70	6.0	7.0	8.0	10.0	11.5	14.0	15.5	16.5	17.5
75	4.0	4.5	5.0	6.0	7.0	8.0	9.0	9.5	9.5
80	2.0	2.5	3.0	3.0	3.5	4.0	4.5	5.0	5.0
85	0.5	1.0	1.0	1.0	1.0	1.5	1.5	1.5	2.0
90	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
95	22.0	19.5	16.5	14.5	12.5	12.0	11.0	11.5	11.5
100	56.0	50.5	44.5	41.0	38.5	37.5	36.5	36.5	36.5
105	95.0	86.0	76.5	68.0	63.0	59.5	58.5	58.0	57.5
110	138.5	126.0	112.0	99.5	92.0	87.5	85.0	84.0	84.0
115	182.5	165.0	147.0	131.0	120.5	114.0	110.5	109.0	109.5
120	225.0	202.0	179.5	160.0	147.5	140.0	135.5	133.5	133.0
125	260.0	233.5	208.5	185.5	172.0	163.0	157.5	155.0	154.5
130	290.5	261.5	234.5	211.5	194.0	182.5	175.0	171.0	170.0
135	311.0	283.0	255.5	232.5	214.5	203.0	196.0	192.0	190.5
140	326.0	298.0	272.5	249.5	233.0	220.0	213.0	208.5	207.0
145	332.0	308.0	284.5	264.5	248.5	236.5	228.5	224.5	222.5
150	332.5	311.5	291.5	275.0	260.0	251.0	242.5	240.0	238.0
155	326.5	310.5	295.5	281.0	271.0	262.5	256.0	253.0	251.0
160	318.5	306.0	294.5	286.5	278.5	271.0	268.0	265.5	263.0
165	306.0	300.0	294.0	288.0	282.0	279.5	277.5	275.5	274.0
170	297.5	293.5	289.5	288.5	287.0	285.5	284.0	282.5	281.5
175	291.0	290.5	290.0	289.5	288.5	288.0	287.5	286.5	286.0
180	287.5	287.5	287.5	287.5	287.5	287.5	287.5	287.5	287.5

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	158.43	N.A.	9.10
0-30	282.15	N.A.	16.20
0-40	377.77	N.A.	21.60
0-60	461.67	N.A.	26.40
0-80	478.65	N.A.	27.40
0-90	479.86	N.A.	27.50
10-90	433.82	N.A.	24.80
20-40	219.34	N.A.	12.60
20-50	275.91	N.A.	15.80
40-70	95.91	N.A.	5.50
60-80	16.98	N.A.	1.00
70-80	4.97	N.A.	0.30
80-90	1.21	N.A.	0.10
90-110	122.35	N.A.	7.00
90-120	298.30	N.A.	17.10
90-130	529.93	N.A.	30.30
90-150	990.77	N.A.	56.70
90-180	1266.79	N.A.	72.50
110-180	1144.44	N.A.	65.50
0-180	1746.65	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	46.04
10-20	112.39
20-30	123.71
30-40	95.63
40-50	56.57
50-60	27.33
60-70	12.01
70-80	4.97
80-90	1.21
90-100	24.65
100-110	97.70
110-120	175.95
120-130	231.64
130-140	244.37
140-150	216.47
150-160	158.22
160-170	89.70
170-180	28.10

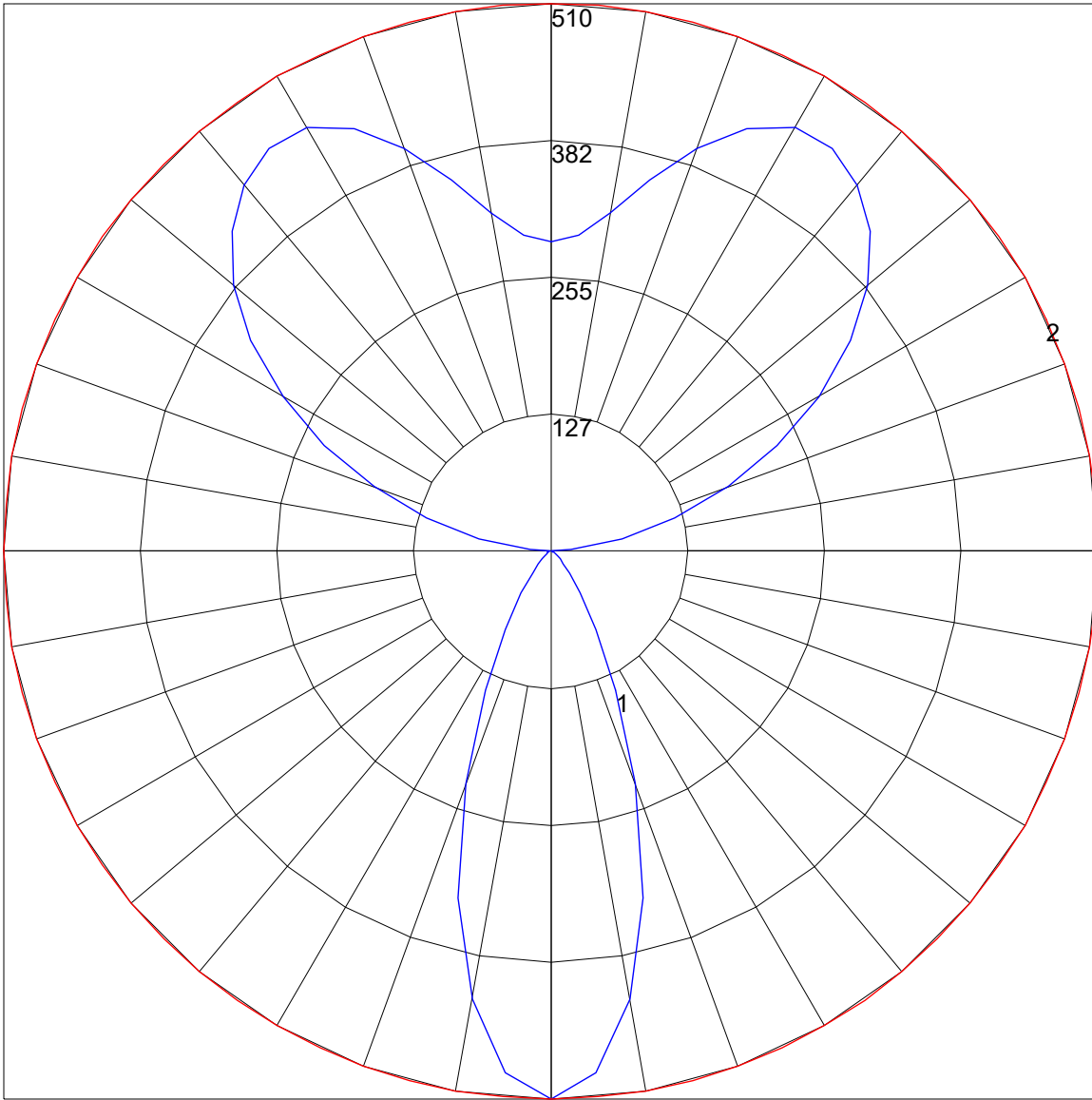
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	102	102	102	102	91	91	91	91	71	71	71	52	52	52	35	35	35	27
1	94	90	87	84	84	81	78	75	63	62	60	47	46	45	33	32	32	25
2	86	80	74	70	77	72	67	64	57	54	51	43	41	40	30	29	29	23
3	79	71	65	60	71	64	59	55	51	48	45	39	37	35	28	27	26	21
4	73	64	57	52	66	58	52	47	46	42	39	36	33	31	26	24	23	19
5	68	57	50	45	61	52	46	41	42	38	35	33	30	28	24	22	21	18
6	63	52	45	40	56	47	41	37	38	34	31	30	27	25	22	21	19	16
7	58	47	40	35	52	43	37	33	35	31	28	28	25	23	21	19	18	15
8	54	43	36	32	49	40	34	29	32	28	25	26	23	21	19	18	16	14
9	51	40	33	28	46	36	31	27	30	26	23	24	21	19	18	17	15	13
10	48	37	30	26	43	34	28	24	28	24	21	22	19	17	17	15	14	12

POLAR GRAPH



Maximum Candela = 509.5 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.)