

IES Report

DoubleBox™ | 107 | 120° Batwing, up | 60° Symmetric, down | 90 CRI | LO

107-DB-XX-4-48-XX-XX-XX-XX-X-X-Z-LO-359-G1S2-X-AL / WH-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	66	68	70	71
Total Lumens, 4' rail length (1219mm)	1962	2024	2065	2107
Lumens per foot (305mm)	491	506	516	527
Lumens per foot UP (305mm)	320	330	337	344
Lumens per foot DOWN (305mm)	170	176	179	183
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_G1S2.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L011800104 (SOURCE REPORT FOR REFERENCE)
[TESTLAB] REPORT BASED ON DATA PRODUCED BY NVLAP ACCREDITED LAB
[ISSUEDATE] 1/9/2018
[MANUFAC] Vode Lighting
[LUMCAT] 107-DB-48-Z-LO-359-G1S2
[LUMINAIRE] DoubleBox LED, 48", 3500K, 90 CRI, zipper board,
[MORE] 120° batwing lens up with white polycarbonate reflectors/60° 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	2065
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	69
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	869	2107	9911
55	478	1015	6766
65	293	516	4560
75	159	247	2908
85	7	27	1125

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	517.5	517.5	517.5	517.5	517.5	517.5	517.5	517.5	517.5	517.5
5	510.5	510.5	510.0	510.5	510.5	510.5	510.5	510.5	511.0	511.0
10	487.0	486.5	486.5	487.5	488.0	489.5	491.0	492.0	493.0	494.5
15	440.5	440.5	442.5	445.0	448.0	450.0	453.5	457.5	462.5	468.0
20	372.5	372.0	375.5	379.5	383.5	390.0	398.5	408.0	419.0	426.5
25	290.5	289.5	292.5	298.5	307.0	317.5	331.0	346.5	358.0	370.5
30	205.5	206.5	211.5	219.5	230.0	243.0	257.5	272.5	289.5	306.0
35	136.0	138.5	144.5	153.0	163.0	173.0	185.0	201.5	219.0	237.0
40	90.0	92.5	97.5	104.0	112.0	118.5	129.5	142.5	155.5	174.0
45	62.5	65.0	68.0	72.5	76.5	81.0	90.5	98.0	110.0	121.0
50	47.0	48.0	49.5	52.5	54.5	58.0	63.0	69.0	76.5	85.5
55	36.5	37.0	38.5	40.0	41.0	43.0	45.5	50.0	54.5	60.5
60	29.0	29.5	30.5	31.0	31.5	32.5	34.0	36.0	39.5	43.5
65	23.0	23.5	23.5	23.5	24.0	24.5	25.5	27.0	29.0	31.0
70	17.5	18.0	17.5	17.5	18.0	18.5	19.0	19.5	20.5	22.0
75	12.5	12.0	12.5	12.5	12.5	13.0	13.0	13.5	14.0	14.5
80	5.5	5.0	6.0	6.0	6.0	6.0	6.5	7.0	7.5	8.0
85	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.5	1.5
90	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
95	17.0	22.0	21.5	22.0	22.5	23.5	25.5	26.0	25.0	25.5
100	73.5	68.5	69.5	69.5	70.0	69.5	69.5	69.0	67.5	65.0
105	128.0	121.5	121.5	122.5	122.0	121.5	120.0	118.0	115.5	110.0
110	185.5	183.5	177.5	176.5	177.0	175.5	173.0	172.5	166.0	158.5
115	245.5	246.0	241.5	237.0	234.5	234.0	231.0	227.0	221.0	209.5
120	304.0	304.0	303.5	300.0	296.0	292.0	287.5	282.5	272.0	256.5
125	358.0	357.5	357.0	355.5	353.0	347.0	342.0	330.0	317.5	299.0
130	404.0	403.5	401.5	398.5	395.0	389.0	380.0	368.0	351.0	329.0
135	439.5	439.0	436.5	432.5	427.5	420.5	408.5	396.5	376.0	355.0
140	464.5	463.5	460.0	455.0	448.5	440.5	427.5	412.0	393.0	368.5
145	477.5	476.0	472.0	466.5	458.0	448.0	436.0	417.5	398.0	375.5
150	475.5	473.0	469.5	462.5	453.5	442.5	429.5	413.5	394.5	374.5
155	455.5	453.5	450.5	443.5	435.0	424.5	412.5	399.5	383.5	366.5
160	423.0	422.0	418.5	414.0	406.5	398.0	388.5	377.5	366.0	355.0
165	383.5	382.5	380.0	377.5	373.5	368.0	362.0	355.0	348.0	340.0
170	348.0	347.5	346.5	345.0	343.5	341.5	339.5	336.5	333.0	329.5
175	325.5	325.5	325.5	325.0	324.5	324.0	323.5	323.0	322.5	322.0
180	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>
0	517.5	517.5	517.5	517.5	517.5	517.5	517.5	517.5	517.5
5	511.5	512.0	512.0	512.5	513.0	513.5	514.0	514.5	515.5
10	496.5	499.0	501.5	501.5	502.0	503.0	503.5	504.5	506.0
15	472.0	474.5	477.5	480.5	484.5	485.0	486.0	487.5	489.0
20	433.5	440.5	447.5	450.5	454.0	458.5	459.5	460.5	462.5
25	385.0	395.0	402.5	411.5	415.5	419.5	423.0	423.5	426.0
30	322.0	337.5	350.5	358.5	368.0	371.0	376.0	376.5	379.5
35	256.0	274.0	288.5	300.5	309.0	315.5	319.5	321.0	323.5
40	191.5	209.5	225.0	239.0	249.0	257.5	260.5	262.5	263.5
45	137.5	152.5	167.0	180.0	190.5	200.5	204.5	206.5	207.5
50	95.5	109.0	122.5	133.5	141.0	146.0	149.5	152.0	152.0
55	68.0	76.5	86.0	96.0	103.0	109.0	113.5	116.0	117.5
60	48.5	53.0	60.5	67.5	73.5	78.5	82.0	84.0	85.0

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CANDELA TABULATION - (Cont.)

65	34.5	38.5	42.5	47.5	52.0	55.0	57.5	59.0	60.5
70	24.0	26.5	29.0	32.0	35.0	37.5	39.5	42.5	44.0
75	15.5	17.0	18.5	20.0	22.0	23.5	24.5	25.0	25.5
80	8.5	9.5	10.0	11.0	11.5	12.5	12.5	13.0	13.0
85	2.0	2.5	3.0	3.0	4.0	4.5	4.5	4.5	4.5
90	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
95	23.5	21.0	18.5	16.0	14.5	13.5	12.0	12.5	12.5
100	60.0	54.0	47.5	43.0	40.5	39.0	38.5	37.5	38.0
105	102.0	92.5	82.0	73.0	68.0	65.0	64.0	63.0	63.0
110	148.0	134.0	119.0	107.0	99.0	95.5	92.5	91.5	92.0
115	193.5	173.0	155.5	140.5	130.0	124.0	120.0	118.5	119.0
120	237.0	213.5	190.5	171.0	158.0	151.0	147.5	145.5	144.5
125	273.5	246.5	221.0	198.5	183.0	174.5	170.0	168.0	166.5
130	304.0	276.0	249.0	226.0	209.0	198.5	192.5	189.5	188.5
135	326.5	299.0	271.5	249.0	232.0	220.0	213.5	209.5	208.5
140	343.0	316.0	290.5	268.0	252.0	239.5	232.0	228.0	226.5
145	351.0	327.5	304.5	284.5	269.0	257.5	250.0	246.0	244.0
150	353.5	333.0	313.0	297.0	282.5	274.0	266.0	263.0	261.0
155	350.0	334.0	319.0	305.0	295.0	287.0	281.0	278.0	276.0
160	343.0	331.0	319.5	312.0	304.5	297.0	294.5	292.0	290.0
165	332.5	327.0	321.0	315.0	309.5	307.0	305.0	303.5	302.0
170	326.0	322.0	318.5	317.0	315.5	314.0	312.5	311.5	310.0
175	321.5	321.0	320.0	319.5	319.0	318.5	317.5	317.0	316.5
180	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	178.38	N.A.	8.60
0-30	344.55	N.A.	16.70
0-40	492.05	N.A.	23.80
0-60	658.36	N.A.	31.90
0-80	713.44	N.A.	34.50
0-90	717.15	N.A.	34.70
10-90	668.82	N.A.	32.40
20-40	313.67	N.A.	15.20
20-50	416.39	N.A.	20.20
40-70	203.40	N.A.	9.80
60-80	55.08	N.A.	2.70
70-80	17.99	N.A.	0.90
80-90	3.72	N.A.	0.20
90-110	131.79	N.A.	6.40
90-120	319.58	N.A.	15.50
90-130	564.55	N.A.	27.30
90-150	1051.26	N.A.	50.90
90-180	1348.22	N.A.	65.30
110-180	1216.43	N.A.	58.90
0-180	2065.37	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	48.33
10-20	130.05
20-30	166.17
30-40	147.50
40-50	102.72
50-60	63.59
60-70	37.09
70-80	17.99
80-90	3.72
90-100	26.65
100-110	105.14
110-120	187.79
120-130	244.97
130-140	257.90
140-150	228.82
150-160	168.76
160-170	97.25
170-180	30.94

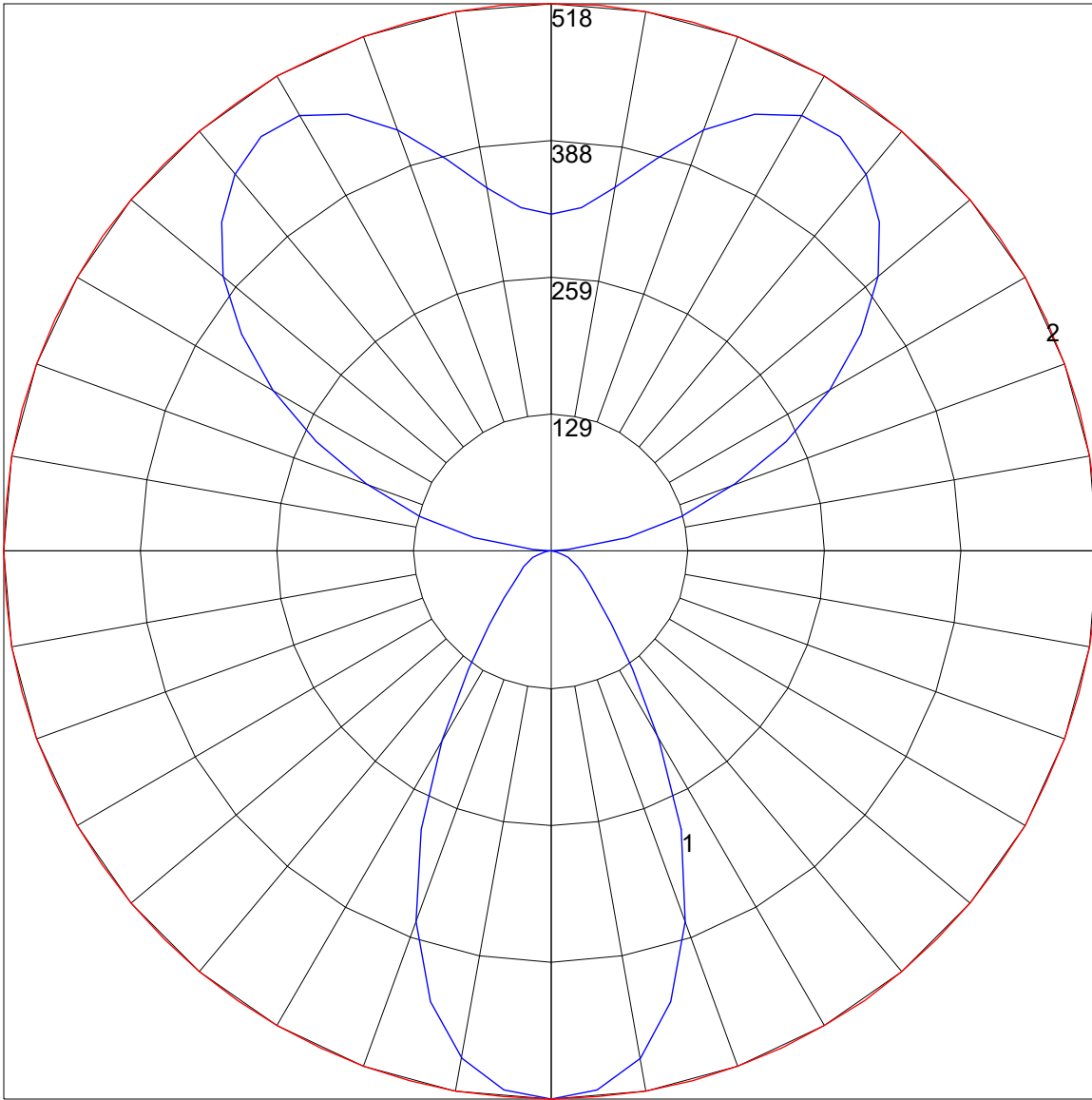
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	104	104	104	104	94	94	94	94	75	75	75	58	58	58	42	42	42	35
1	95	91	88	85	86	83	80	77	67	65	63	52	51	50	39	38	37	31
2	88	81	75	71	79	74	69	65	60	57	54	47	45	43	35	34	33	28
3	80	72	65	60	73	66	60	55	53	50	46	42	40	38	32	30	29	25
4	74	64	57	52	67	59	53	48	48	44	40	38	35	33	29	27	26	22
5	68	58	50	45	62	53	47	42	44	39	36	35	32	29	27	25	23	20
6	63	52	45	40	57	48	42	37	40	35	32	32	29	26	25	23	21	18
7	59	47	40	35	53	44	37	33	36	32	28	29	26	24	23	21	19	17
8	55	43	36	31	50	40	34	29	33	29	25	27	24	21	21	19	18	15
9	51	40	33	28	46	37	31	26	31	26	23	25	22	20	20	18	16	14
10	48	37	30	25	44	34	28	24	29	24	21	23	20	18	19	17	15	13

POLAR GRAPH



Maximum Candela = 517.5 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.)