

IES Report

DoubleBox™ | 107 | 120° Batwing, up | 40° Symmetric, down | 80 CRI | LO

107-DB-XX-4-48-XX-XX-XX-XX-X-X-Z-LO-35-G1S1-X-BL-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	65	67	68	70
Total Lumens, 4' rail length (1219mm)	1925	1986	2026	2067
Lumens per foot (305mm)	481	496	507	517
Lumens per foot UP (305mm)	349	360	367	375
Lumens per foot DOWN (305mm)	132	137	139	142
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_DB_LO_35_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-35-G1S1-BL
[LUMINAIRE] DoubleBox LED, 48", 3500K, 80 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	2026
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	68
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	266	909	9835
55	114	340	5210
65	59	145	2492
75	30	69	1257
85	8	10	580

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	591.02	591.02	591.02	591.02	591.02	591.02	591.02	591.02	591.02	591.02
5	565.50	564.92	564.92	565.50	565.50	566.08	567.24	568.40	569.56	570.72
10	490.68	490.68	491.84	494.74	498.22	502.86	508.08	514.46	521.42	528.96
15	386.86	386.86	390.34	396.14	403.68	413.54	425.72	439.64	455.30	470.96
20	266.80	266.80	272.02	280.72	293.48	309.72	328.28	346.26	365.98	386.28
25	165.88	168.20	175.16	185.02	198.94	212.86	227.94	246.50	268.54	294.06
30	97.44	98.60	103.24	113.68	124.12	134.56	146.16	162.98	185.02	207.06
35	55.68	56.26	59.74	66.12	73.08	80.04	88.16	103.24	117.74	137.46
40	30.74	31.90	34.22	37.70	41.76	45.82	53.36	62.64	73.66	88.74
45	19.14	19.72	20.88	22.62	24.36	26.68	32.48	37.70	45.24	52.20
50	12.76	12.76	13.34	14.50	15.08	17.40	20.30	23.20	27.26	33.06
55	8.70	8.70	9.28	9.86	10.44	11.60	12.76	14.50	17.40	20.30
60	6.38	6.38	6.38	6.96	7.54	8.12	8.70	9.86	11.60	13.34
65	4.64	4.64	4.64	5.22	5.22	5.80	6.38	6.96	7.54	8.70
70	3.48	3.48	3.48	4.06	4.06	4.06	4.64	4.64	5.22	5.80
75	2.32	2.32	2.32	2.90	2.90	2.90	2.90	3.48	3.48	4.06
80	0.58	1.16	1.16	1.16	1.16	1.16	1.74	1.74	1.74	2.32
85	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58
90	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58
95	22.04	23.20	23.20	23.78	24.36	25.52	27.26	27.26	26.68	26.10
100	78.88	73.08	74.24	74.24	74.24	73.66	73.66	74.24	71.34	68.44
105	138.62	129.34	129.92	131.08	130.50	130.50	129.34	127.02	124.70	119.48
110	203.58	200.10	191.40	190.82	191.98	191.40	190.24	186.76	180.38	171.10
115	269.70	269.12	262.74	255.78	253.46	251.72	250.56	245.92	240.12	229.10
120	334.08	333.50	332.34	328.86	323.64	319.00	314.94	309.72	298.70	282.46
125	396.14	394.98	393.82	392.08	389.18	382.80	377.58	364.24	350.32	330.60
130	446.60	446.02	443.70	440.80	436.74	430.94	421.66	407.74	389.18	364.82
135	487.20	486.04	483.72	479.08	473.28	466.32	454.14	440.80	417.60	393.82
140	515.62	513.88	510.40	505.18	498.80	490.10	475.60	457.62	436.16	408.32
145	530.12	528.38	524.32	518.52	509.24	498.22	484.88	463.42	440.80	414.70
150	527.80	525.48	520.84	513.30	503.44	490.68	476.18	457.04	435.00	410.64
155	502.86	501.12	497.06	489.52	480.24	468.06	453.56	438.48	419.34	399.04
160	462.84	461.68	457.62	452.40	443.70	434.42	423.40	410.06	396.14	382.80
165	414.12	412.96	410.64	407.16	402.52	396.14	389.18	381.64	373.52	363.66
170	370.04	369.46	368.30	367.14	365.40	363.08	360.18	356.70	353.22	349.16
175	342.78	342.20	342.20	341.62	341.04	341.04	340.46	339.88	339.30	338.72
180	333.50	333.50	333.50	333.50	333.50	333.50	333.50	333.50	333.50	333.50

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	591.02	591.02	591.02	591.02	591.02	591.02	591.02	591.02	591.02
5	571.88	573.62	575.36	577.68	579.42	581.74	584.06	585.80	588.12
10	537.66	546.36	556.22	559.70	563.18	567.24	571.30	575.94	580.58
15	484.30	495.90	508.66	522.58	538.24	543.46	549.26	555.06	562.02
20	407.16	429.78	453.56	470.38	489.52	509.82	516.78	524.32	533.60
25	321.90	349.74	378.74	410.06	433.26	456.46	474.44	483.14	493.00
30	234.90	268.54	301.60	335.24	369.46	394.40	421.08	430.36	441.96
35	163.56	192.56	224.46	256.36	291.74	322.48	349.74	363.08	374.10
40	104.98	130.50	155.44	182.70	214.02	244.76	269.70	285.94	295.80
45	65.54	80.62	100.34	124.12	148.48	174.58	192.56	202.42	205.90
50	40.02	49.88	63.22	78.88	95.70	114.26	129.34	140.36	147.32
55	24.94	30.74	38.28	48.14	59.16	70.76	81.20	88.16	90.48
60	15.66	19.14	23.78	29.58	36.54	44.08	50.46	52.78	55.10

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CANDELA TABULATION - (Cont.)

65	10.44	12.18	15.08	18.56	22.04	26.10	29.58	31.90	33.06
70	6.96	8.12	9.28	11.60	13.34	16.24	17.98	19.14	20.30
75	4.64	5.22	5.80	6.96	8.12	9.28	10.44	11.02	11.02
80	2.32	2.90	3.48	3.48	4.06	4.64	5.22	5.80	5.80
85	0.58	1.16	1.16	1.16	1.16	1.74	1.74	1.74	2.32
90	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58
95	25.52	22.62	19.14	16.82	14.50	13.92	12.76	13.34	13.34
100	64.96	58.58	51.62	47.56	44.66	43.50	42.34	42.34	42.34
105	110.20	99.76	88.74	78.88	73.08	69.02	67.86	67.28	66.70
110	160.66	146.16	129.92	115.42	106.72	101.50	98.60	97.44	97.44
115	211.70	191.40	170.52	151.96	139.78	132.24	128.18	126.44	127.02
120	261.00	234.32	208.22	185.60	171.10	162.40	157.18	154.86	154.28
125	301.60	270.86	241.86	215.18	199.52	189.08	182.70	179.80	179.22
130	336.98	303.34	272.02	245.34	225.04	211.70	203.00	198.36	197.20
135	360.76	328.28	296.38	269.70	248.82	235.48	227.36	222.72	220.98
140	378.16	345.68	316.10	289.42	270.28	255.20	247.08	241.86	240.12
145	385.12	357.28	330.02	306.82	288.26	274.34	265.06	260.42	258.10
150	385.70	361.34	338.14	319.00	301.60	291.16	281.30	278.40	276.08
155	378.74	360.18	342.78	325.96	314.36	304.50	296.96	293.48	291.16
160	369.46	354.96	341.62	332.34	323.06	314.36	310.88	307.98	305.08
165	354.96	348.00	341.04	334.08	327.12	324.22	321.90	319.58	317.84
170	345.10	340.46	335.82	334.66	332.92	331.18	329.44	327.70	326.54
175	337.56	336.98	336.40	335.82	334.66	334.08	333.50	332.34	331.76
180	333.50	333.50	333.50	333.50	333.50	333.50	333.50	333.50	333.50

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	183.78	N.A.	9.10
0-30	327.29	N.A.	16.20
0-40	438.21	N.A.	21.60
0-60	535.54	N.A.	26.40
0-80	555.23	N.A.	27.40
0-90	556.64	N.A.	27.50
10-90	503.23	N.A.	24.80
20-40	254.43	N.A.	12.60
20-50	320.06	N.A.	15.80
40-70	111.26	N.A.	5.50
60-80	19.69	N.A.	1.00
70-80	5.76	N.A.	0.30
80-90	1.41	N.A.	0.10
90-110	141.93	N.A.	7.00
90-120	346.02	N.A.	17.10
90-130	614.72	N.A.	30.30
90-150	1149.29	N.A.	56.70
90-180	1469.48	N.A.	72.50
110-180	1327.55	N.A.	65.50
0-180	2026.12	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	53.41
10-20	130.37
20-30	143.51
30-40	110.93
40-50	65.63
50-60	31.70
60-70	13.93
70-80	5.76
80-90	1.41
90-100	28.59
100-110	113.33
110-120	204.10
120-130	268.70
130-140	283.47
140-150	251.10
150-160	183.53
160-170	104.05
170-180	32.60

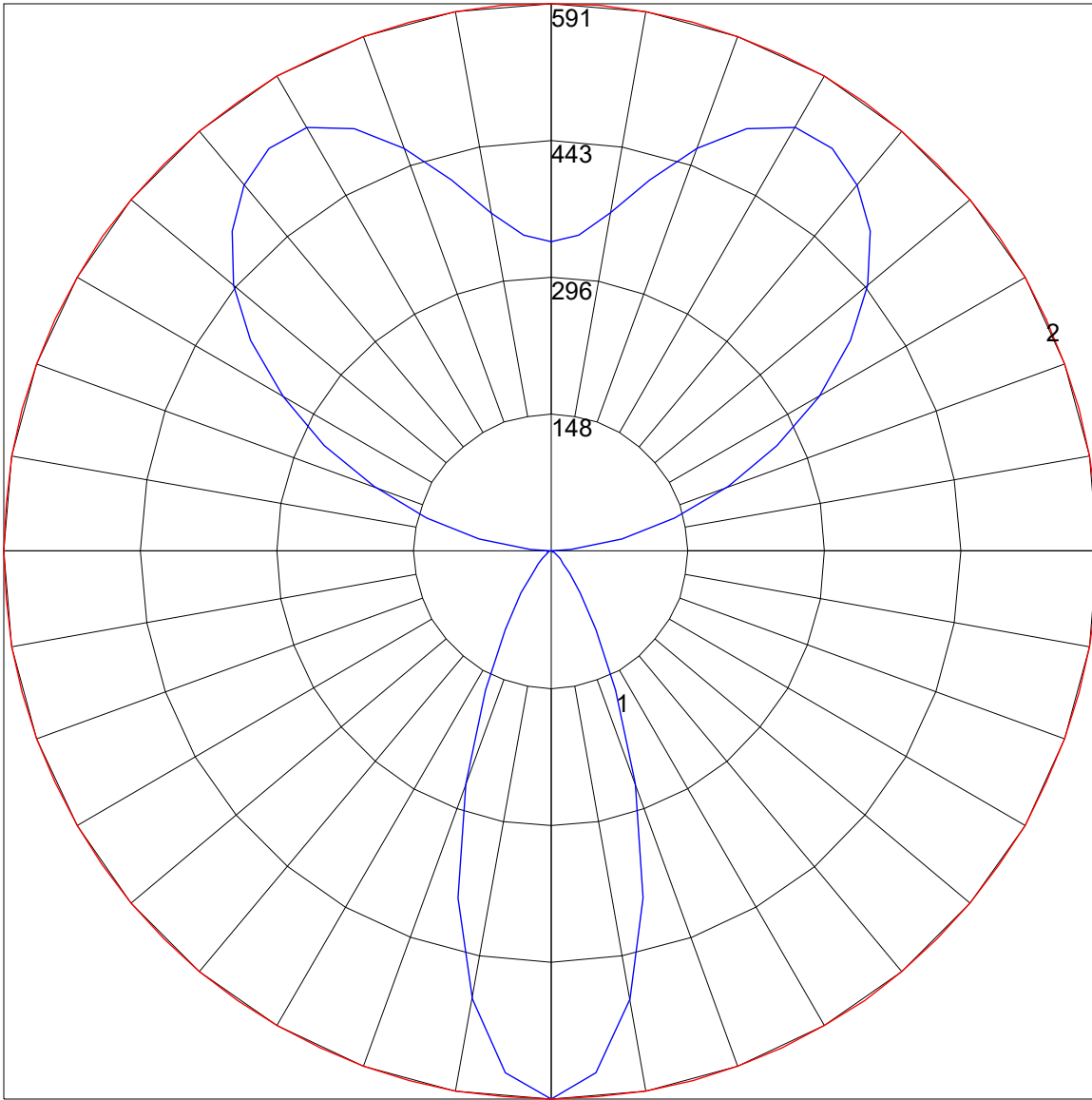
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	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	75	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 = 591.02 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.)