

IES Report

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

107-DB-XX-4-48-XX-XX-XX-XX-X-X-Z-LO-35-G12-X-XX-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	98	101	103	105
Total Lumens, 4' rail length (1219mm)	2914	3006	3067	3129
Lumens per foot (305mm)	728	752	767	782
Lumens per foot UP (305mm)	377	389	397	405
Lumens per foot DOWN (305mm)	352	363	370	378
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	7.585
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_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-35-G12
 [LUMINAIRE] DoubleBox LED, 48", 3500K, 80 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	3067
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	103
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	4817	6131	17038
55	3143	4182	14562
65	1801	2512	11977
75	703	1207	9327
85	77	167	5799

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CANDELA TABULATION

	0	5	10	15	20	25	30	35	40	45
0	617.70	617.70	617.70	617.70	617.70	617.70	617.70	617.70	617.70	617.70
5	614.22	613.64	613.64	613.06	613.06	613.06	613.06	612.48	612.48	612.48
10	603.20	602.62	602.62	602.04	602.04	602.62	602.62	602.04	602.04	602.04
15	585.22	584.64	584.06	584.64	584.64	584.06	584.06	584.06	585.22	585.22
20	560.28	559.12	559.70	559.70	559.12	559.12	559.70	559.70	560.28	560.86
25	528.38	527.22	527.80	527.22	527.80	527.80	527.80	529.54	528.96	528.96
30	490.10	489.52	489.52	489.52	489.52	490.10	491.26	491.26	491.26	491.84
35	446.60	446.02	445.44	446.02	446.02	446.60	447.76	447.18	448.34	448.92
40	397.88	397.88	397.88	397.88	398.46	399.04	399.62	400.20	400.78	401.94
45	346.26	346.84	346.84	346.84	347.42	348.00	349.16	350.90	350.32	352.06
50	293.48	293.48	293.48	294.06	295.22	295.80	297.54	298.12	299.28	300.44
55	240.12	240.12	241.28	241.86	242.44	243.02	244.76	245.92	247.66	249.40
60	190.24	190.24	190.24	189.08	189.08	189.08	190.82	191.98	195.46	198.36
65	141.52	142.10	139.78	138.62	139.20	140.36	142.68	145.58	148.48	150.80
70	96.86	95.12	93.38	93.96	96.86	98.60	100.34	102.66	105.56	108.46
75	55.10	52.20	54.52	55.68	57.42	59.16	61.48	64.38	67.28	70.76
80	22.62	22.04	22.62	23.78	24.36	25.52	27.84	30.74	33.06	37.70
85	5.80	6.38	6.38	6.38	6.38	6.38	6.38	6.96	8.12	9.28
90	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58
95	21.46	24.36	24.94	25.52	26.68	27.26	28.42	30.74	29.00	29.00
100	87.00	79.46	81.20	81.78	81.78	81.20	80.62	80.04	78.30	74.82
105	150.80	140.36	142.10	142.68	142.10	141.52	139.78	137.46	134.56	128.76
110	218.66	214.02	205.90	205.32	206.48	204.16	200.68	199.52	194.30	186.18
115	288.26	288.26	280.72	274.34	272.02	270.28	267.96	263.32	256.94	245.34
120	356.12	355.54	353.80	348.58	343.36	338.72	334.08	328.86	316.68	300.44
125	417.60	417.02	415.86	413.54	410.64	403.68	398.46	385.12	370.62	350.90
130	470.96	469.80	467.48	464.00	460.52	453.56	444.28	430.94	412.38	388.02
135	512.72	512.14	509.24	504.60	498.80	491.84	479.08	466.32	443.12	419.92
140	543.46	542.30	538.82	533.60	526.64	517.94	504.02	486.04	465.16	437.32
145	561.44	559.12	555.06	549.26	539.98	528.96	516.20	494.74	472.12	446.02
150	560.86	558.54	553.90	546.36	536.50	523.74	509.24	490.10	468.06	444.28
155	538.82	536.50	532.44	524.90	515.62	503.44	489.52	474.44	454.72	435.00
160	500.54	499.38	495.32	490.10	481.40	471.54	460.52	447.18	433.26	420.50
165	453.56	452.40	449.50	446.60	441.96	435.58	428.04	420.50	411.80	402.52
170	410.64	410.06	408.90	407.16	405.42	403.10	400.20	396.72	393.24	389.18
175	383.38	383.38	382.80	382.22	382.22	381.64	381.06	380.48	379.90	379.32
180	374.68	374.68	374.68	374.68	374.68	374.68	374.68	374.68	374.68	374.68

Vert. Angles Horizontal Angles

	50	55	60	65	70	75	80	85	90
0	617.70	617.70	617.70	617.70	617.70	617.70	617.70	617.70	617.70
5	612.48	613.06	613.06	613.06	613.06	613.64	613.64	613.64	614.22
10	602.04	602.62	603.20	602.62	602.62	602.62	602.62	603.20	603.78
15	585.22	585.22	585.22	585.22	586.38	585.80	585.80	586.38	586.96
20	560.86	560.86	561.44	560.86	561.44	562.60	562.02	562.02	563.18
25	530.12	530.12	530.12	530.70	530.70	531.28	531.28	530.70	531.28
30	492.42	492.42	493.00	493.00	494.74	494.74	495.90	494.16	494.74
35	449.50	450.66	450.08	450.66	451.24	451.82	452.40	451.82	452.98
40	402.52	403.10	403.68	404.26	404.26	404.26	404.26	404.84	406.00
45	352.06	352.64	353.22	353.80	354.96	354.38	354.38	354.96	356.70
50	302.18	302.18	302.18	302.76	303.92	303.34	303.34	303.34	302.76
55	250.56	251.14	251.14	252.30	252.30	252.30	251.72	252.30	252.88
60	201.26	199.52	201.26	203.58	204.16	203.00	201.26	199.52	198.94

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CANDELA TABULATION - (Cont.)

65	154.86	156.60	157.76	158.92	158.92	158.92	158.92	158.34	158.92
70	111.36	113.68	116.00	117.16	117.74	118.32	118.32	118.32	118.90
75	73.66	76.56	78.88	80.04	81.20	81.20	81.78	82.36	81.78
80	40.02	42.92	48.14	49.88	49.88	49.30	49.88	50.46	49.88
85	11.02	12.76	15.08	18.56	20.30	20.88	22.62	23.20	23.20
90	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58
95	27.84	24.36	21.46	19.72	16.82	15.66	15.08	15.08	14.50
100	70.18	63.80	56.26	51.62	48.72	46.40	45.82	45.82	45.24
105	119.48	108.46	96.86	87.00	80.62	77.14	75.98	75.40	75.40
110	173.42	157.18	140.36	127.02	117.16	112.52	110.78	109.04	108.46
115	227.36	202.42	182.12	165.88	153.70	146.74	143.26	141.52	140.94
120	278.98	252.30	223.88	203.00	189.08	179.80	174.58	172.84	172.84
125	321.90	291.16	261.00	236.06	219.82	206.48	197.78	195.46	194.30
130	359.60	325.96	294.64	267.96	248.24	236.06	229.10	225.62	224.46
135	386.28	353.80	321.90	295.80	275.50	261.58	254.04	249.40	247.66
140	407.16	374.68	345.10	318.42	299.28	284.20	276.08	271.44	269.70
145	417.02	389.18	361.92	338.14	319.58	306.24	296.96	292.32	290.00
150	419.92	395.56	372.36	353.22	335.82	324.80	315.52	312.04	309.72
155	415.28	396.14	378.74	361.92	350.32	340.46	332.92	329.44	327.12
160	406.58	392.66	378.74	369.46	360.76	351.48	348.58	345.68	343.36
165	393.82	386.86	379.90	372.94	365.98	363.08	360.76	358.44	356.70
170	384.54	380.48	375.84	374.10	372.36	370.62	369.46	367.72	365.98
175	378.74	377.58	377.00	376.42	375.84	374.68	374.10	373.52	372.94
180	374.68	374.68	374.68	374.68	374.68	374.68	374.68	374.68	374.68

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	223.08	N.A.	7.30
0-30	466.65	N.A.	15.20
0-40	747.09	N.A.	24.40
0-60	1239.41	N.A.	40.40
0-80	1463.4	N.A.	47.70
0-90	1480.3	N.A.	48.30
10-90	1422.1	N.A.	46.40
20-40	524.01	N.A.	17.10
20-50	794.81	N.A.	25.90
40-70	641.71	N.A.	20.90
60-80	223.99	N.A.	7.30
70-80	74.60	N.A.	2.40
80-90	16.90	N.A.	0.60
90-110	154.44	N.A.	5.00
90-120	374.21	N.A.	12.20
90-130	661.30	N.A.	21.60
90-150	1235.57	N.A.	40.30
90-180	1587.06	N.A.	51.70
110-180	1432.62	N.A.	46.70
0-180	3067.36	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	58.20
10-20	164.87
20-30	243.57
30-40	280.44
40-50	270.80
50-60	221.52
60-70	149.39
70-80	74.60
80-90	16.90
90-100	31.21
100-110	123.23
110-120	219.77
120-130	287.09
130-140	303.58
140-150	270.69
150-160	200.00
160-170	115.03
170-180	36.47

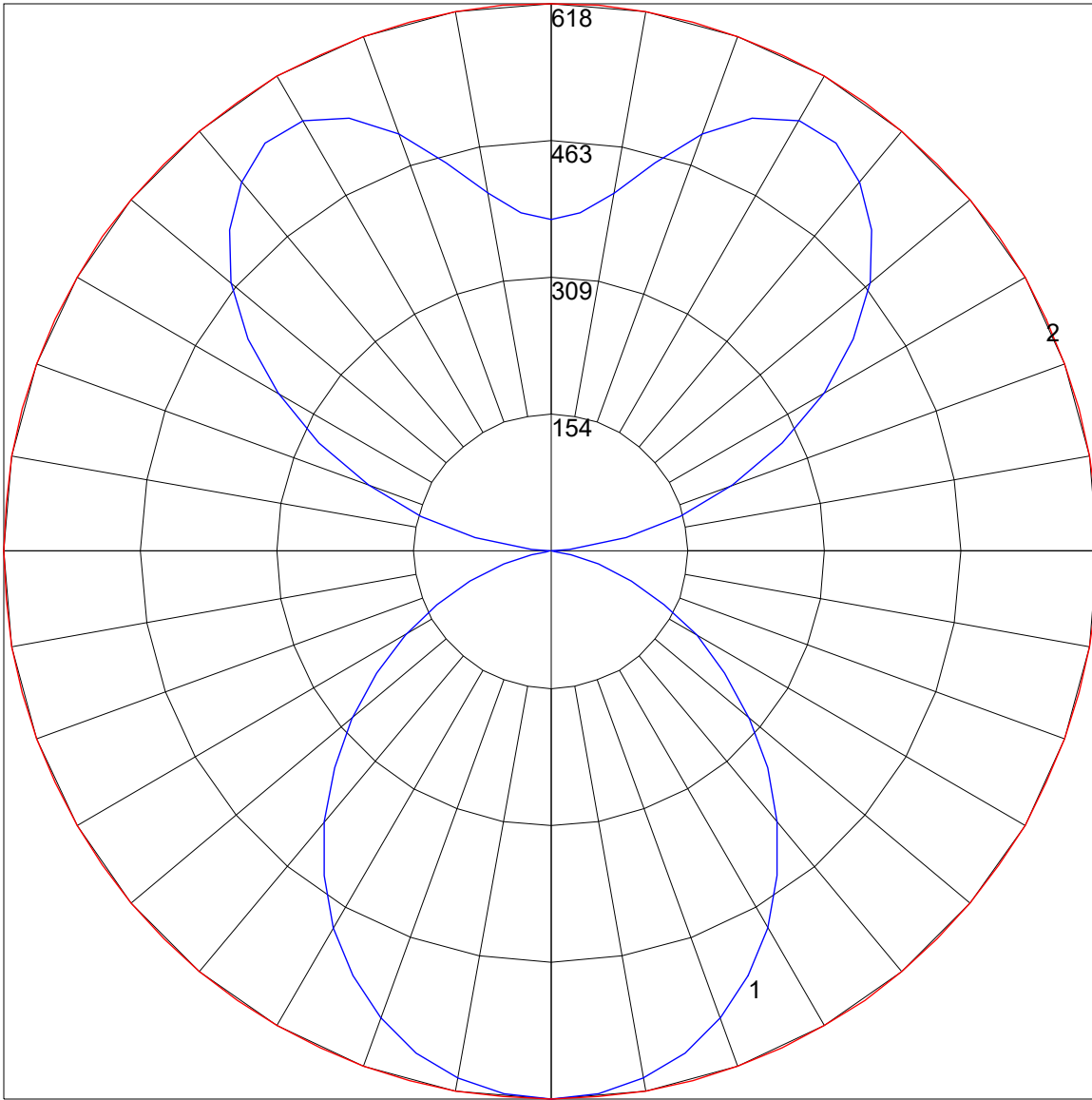
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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

POLAR GRAPH



Maximum Candela = 617.7 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.)