

IES Report

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

107-DB-XX-4-48-XX-XX-XX-XX-X-X-Z-LO-35-G1WB-X-XX-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	75	77	79	80
Total Lumens, 4' rail length (1219mm)	2226	2296	2343	2390
Lumens per foot (305mm)	556	574	586	597
Lumens per foot UP (305mm)	360	371	379	386
Lumens per foot DOWN (305mm)	197	203	208	212
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_G1WB.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L011800101 (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-35-G1WB
[LUMINAIRE] DoubleBox LED, 48", 3500K, 80 CRI, zipper board,
[MORE] 120° batwing lens up with white polycarbonate reflectors/white baffle down, low output
[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2343
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	78
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	984	2535	5485
55	782	1294	4275
65	568	686	3453
75	163	257	2051
85	38	52	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	660.62	660.62	660.62	660.62	660.62	660.62	660.62	660.62	660.62	660.62
5	658.88	655.98	653.08	650.18	647.28	644.38	641.48	639.16	636.84	634.52
10	651.92	645.54	639.74	633.94	628.72	623.50	618.86	610.16	602.04	595.08
15	639.74	631.04	622.34	614.22	604.94	591.02	577.68	566.08	555.06	544.04
20	621.18	609.58	599.14	586.96	567.82	550.42	533.02	516.20	500.54	486.04
25	595.66	581.74	568.40	547.52	526.64	505.18	483.72	464.00	441.38	420.50
30	565.50	549.84	531.86	505.18	479.08	454.14	428.62	401.94	375.84	350.90
35	526.64	509.24	484.88	455.30	425.72	396.14	366.56	335.24	305.08	274.92
40	241.86	237.80	238.96	252.30	277.82	305.66	287.10	256.36	229.10	198.94
45	70.76	79.46	95.70	107.30	110.78	114.26	153.70	164.72	154.86	145.58
50	63.80	66.12	69.60	73.66	78.88	85.84	92.80	100.92	103.82	104.40
55	59.74	60.90	62.64	64.96	67.28	71.34	74.82	75.40	76.56	77.14
60	55.68	55.10	54.52	53.94	53.94	54.52	55.68	56.26	56.84	57.42
65	44.66	44.08	41.76	40.02	38.86	38.28	38.86	38.86	40.02	41.18
70	26.10	26.10	25.52	24.94	24.94	24.36	24.94	24.94	25.52	26.10
75	12.76	12.76	13.34	13.34	13.34	13.34	13.34	13.34	14.50	15.08
80	7.54	7.54	6.96	6.96	6.96	6.96	6.38	6.38	6.38	6.96
85	2.90	3.48	3.48	2.90	2.90	2.90	2.90	2.90	2.90	2.90
90	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58
95	22.04	24.36	23.20	23.78	23.78	24.36	24.94	26.10	27.84	26.68
100	80.62	72.50	74.82	75.40	74.82	74.82	74.82	73.66	72.50	70.76
105	141.52	131.66	132.82	133.40	132.82	132.24	131.08	129.92	127.60	122.38
110	208.80	204.74	194.88	194.30	195.46	196.62	194.30	188.50	184.44	176.90
115	275.50	275.50	267.96	261.58	258.68	258.10	256.36	251.72	245.34	234.90
120	341.04	340.46	339.30	334.08	328.86	323.64	319.58	314.94	303.92	288.26
125	401.36	400.78	399.62	397.88	394.98	388.02	382.80	370.04	356.70	338.14
130	453.56	452.98	450.66	447.76	443.70	437.32	428.04	415.28	397.30	373.52
135	495.32	494.16	491.26	487.20	481.98	475.02	462.26	448.92	426.30	403.10
140	524.90	523.74	520.26	515.04	508.08	499.96	484.88	467.48	446.60	418.76
145	541.72	539.40	535.34	528.96	520.26	509.24	495.90	475.02	452.98	426.88
150	539.98	537.66	533.02	525.48	515.62	502.86	488.94	469.80	448.34	424.56
155	517.36	515.04	511.56	504.02	494.16	481.98	468.06	452.98	433.84	414.70
160	479.08	477.92	473.86	468.06	459.94	450.66	439.64	426.30	412.38	399.62
165	432.68	431.52	428.62	425.14	421.08	414.70	407.16	399.62	391.50	381.64
170	390.34	389.76	388.60	386.86	385.12	382.80	379.90	376.42	372.36	368.30
175	363.08	363.08	362.50	362.50	361.92	361.34	360.76	360.18	359.60	359.02
180	354.38	354.38	354.38	354.38	354.38	354.38	354.38	354.38	354.38	354.38

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	660.62	660.62	660.62	660.62	660.62	660.62	660.62	660.62	660.62
5	632.78	631.04	629.30	628.14	626.98	625.82	625.24	625.24	625.24
10	588.12	582.90	577.68	572.46	568.40	564.92	562.60	560.28	560.28
15	533.60	523.74	515.04	508.08	502.28	497.06	493.00	490.10	489.52
20	471.54	457.62	446.02	435.00	425.72	418.18	412.38	408.32	407.16
25	401.94	384.54	368.88	355.54	343.94	334.66	327.70	321.32	319.58
30	327.70	305.66	283.62	265.06	249.98	238.38	230.84	221.56	218.08
35	245.34	217.50	202.42	191.98	183.86	177.48	172.84	169.36	168.20
40	180.96	165.30	157.18	151.96	147.32	143.26	140.94	139.20	139.20
45	138.04	131.66	127.02	123.54	120.64	117.74	116.00	114.84	114.84
50	106.14	103.82	100.92	99.18	97.44	95.12	93.96	92.80	92.22
55	78.88	78.30	78.30	77.72	76.56	75.98	74.82	74.82	74.24
60	58.00	58.58	59.16	59.16	59.16	59.16	58.58	58.58	58.58

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CANDELA TABULATION - (Cont.)

65	41.76	43.50	43.50	43.50	43.50	44.66	46.40	45.82	45.82
70	27.26	27.84	29.00	29.58	29.58	30.16	30.74	30.16	30.16
75	15.66	16.24	16.82	17.40	17.98	17.98	18.56	17.98	17.98
80	7.54	7.54	8.12	8.12	8.70	8.70	8.70	8.70	8.70
85	2.90	2.90	2.90	2.90	2.90	2.32	2.90	2.32	2.32
90	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58
95	24.94	22.62	19.72	17.98	16.24	15.08	13.92	13.92	13.92
100	66.70	59.74	53.94	49.30	46.40	44.66	43.50	42.92	43.50
105	113.68	103.24	91.64	82.36	75.40	72.50	71.92	70.76	69.60
110	165.30	150.22	133.40	120.06	110.78	105.56	103.24	102.66	102.08
115	215.76	194.30	174.58	157.18	145.00	138.04	134.56	132.82	132.24
120	267.96	241.28	214.02	191.40	176.90	168.78	164.14	161.82	161.24
125	310.30	279.56	249.40	222.72	206.48	196.62	191.40	188.50	187.92
130	345.68	312.04	281.30	254.62	234.90	222.72	215.18	211.70	211.12
135	370.62	338.14	306.82	280.72	259.84	245.92	238.38	233.74	232.58
140	389.76	357.28	327.70	301.60	282.46	267.38	259.26	254.62	252.30
145	397.88	370.04	343.36	319.58	301.60	288.26	278.98	274.34	272.02
150	400.20	375.84	352.64	333.50	316.68	306.24	296.38	292.90	290.58
155	394.40	375.84	358.44	341.62	330.60	320.74	313.20	309.72	307.40
160	385.70	371.78	358.44	349.16	340.46	331.76	328.28	325.38	322.48
165	372.94	365.98	359.02	352.64	345.10	342.78	339.88	337.56	335.82
170	364.24	359.60	355.54	353.80	351.48	349.74	348.58	346.84	345.10
175	357.86	357.28	356.70	355.54	354.96	353.80	353.22	352.64	351.48
180	354.38	354.38	354.38	354.38	354.38	354.38	354.38	354.38	354.38

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	214.41	N.A.	9.20
0-30	413.58	N.A.	17.70
0-40	597.11	N.A.	25.50
0-60	766.90	N.A.	32.70
0-80	825.84	N.A.	35.20
0-90	829.62	N.A.	35.40
10-90	769.89	N.A.	32.90
20-40	382.70	N.A.	16.30
20-50	486.73	N.A.	20.80
40-70	211.48	N.A.	9.00
60-80	58.94	N.A.	2.50
70-80	17.25	N.A.	0.70
80-90	3.78	N.A.	0.20
90-110	145.26	N.A.	6.20
90-120	354.56	N.A.	15.10
90-130	629.67	N.A.	26.90
90-150	1179.35	N.A.	50.30
90-180	1513.51	N.A.	64.60
110-180	1368.26	N.A.	58.40
0-180	2343.14	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	59.74
10-20	154.68
20-30	199.17
30-40	183.53
40-50	104.03
50-60	65.76
60-70	41.69
70-80	17.25
80-90	3.78
90-100	29.01
100-110	116.25
110-120	209.30
120-130	275.10
130-140	290.91
140-150	258.77
150-160	190.51
160-170	109.15
170-180	34.51

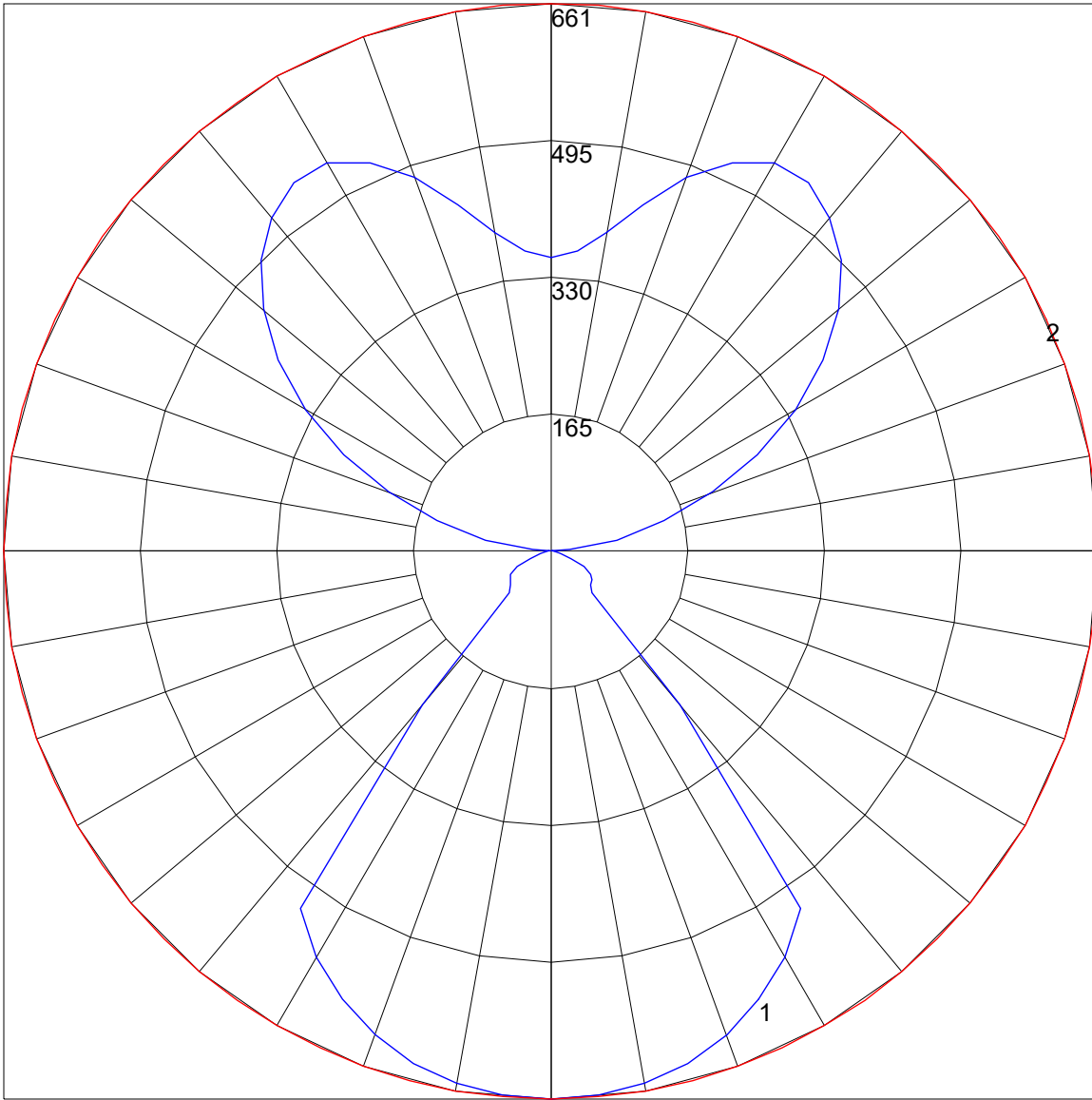
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	43	43	43	35
1	95	92	88	85	86	83	80	78	67	65	64	53	52	50	39	39	38	32
2	88	81	76	71	79	74	69	66	60	57	54	48	46	44	36	35	34	28
3	81	72	66	61	73	66	60	56	54	50	47	43	40	38	33	31	30	25
4	74	65	58	52	67	59	53	49	49	45	41	39	36	34	30	28	27	23
5	69	58	51	46	62	53	47	42	44	40	36	36	33	30	28	26	24	21
6	64	53	45	40	58	49	42	37	40	36	32	33	30	27	26	24	22	19
7	59	48	41	36	54	44	38	33	37	32	29	30	27	24	24	22	20	17
8	55	44	37	32	50	40	34	30	34	29	26	28	25	22	22	20	18	16
9	52	40	33	29	47	37	31	27	31	27	24	26	23	20	21	19	17	15
10	48	37	30	26	44	34	29	25	29	25	22	24	21	19	19	17	16	14

POLAR GRAPH



Maximum Candela = 660.62 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.)