

IES Report

DoubleBox™ | 107 | 120° Batwing, up | 60° Symmetric, down | 80 CRI | LO

107-DB-XX-4-48-XX-XX-XX-XX-X-X-Z-LO-35-G1S2-X-AL / WH-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	77	79	81	82
Total Lumens, 4' rail length (1219mm)	2276	2348	2396	2444
Lumens per foot (305mm)	569	587	599	611
Lumens per foot UP (305mm)	372	383	391	399
Lumens per foot DOWN (305mm)	198	204	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_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-35-G1S2
[LUMINAIRE] DoubleBox LED, 48", 3500K, 80 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	2396
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	80
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	1009	2444	11497
55	554	1177	7849
65	340	599	5289
75	185	287	3374
85	8	31	1305

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	600.30	600.30	600.30	600.30	600.30	600.30	600.30	600.30	600.30	600.30
5	592.18	592.18	591.60	592.18	592.18	592.18	592.18	592.18	592.76	592.76
10	564.92	564.34	564.34	565.50	566.08	567.82	569.56	570.72	571.88	573.62
15	510.98	510.98	513.30	516.20	519.68	522.00	526.06	530.70	536.50	542.88
20	432.10	431.52	435.58	440.22	444.86	452.40	462.26	473.28	486.04	494.74
25	336.98	335.82	339.30	346.26	356.12	368.30	383.96	401.94	415.28	429.78
30	238.38	239.54	245.34	254.62	266.80	281.88	298.70	316.10	335.82	354.96
35	157.76	160.66	167.62	177.48	189.08	200.68	214.60	233.74	254.04	274.92
40	104.40	107.30	113.10	120.64	129.92	137.46	150.22	165.30	180.38	201.84
45	72.50	75.40	78.88	84.10	88.74	93.96	104.98	113.68	127.60	140.36
50	54.52	55.68	57.42	60.90	63.22	67.28	73.08	80.04	88.74	99.18
55	42.34	42.92	44.66	46.40	47.56	49.88	52.78	58.00	63.22	70.18
60	33.64	34.22	35.38	35.96	36.54	37.70	39.44	41.76	45.82	50.46
65	26.68	27.26	27.26	27.26	27.84	28.42	29.58	31.32	33.64	35.96
70	20.30	20.88	20.30	20.30	20.88	21.46	22.04	22.62	23.78	25.52
75	14.50	13.92	14.50	14.50	14.50	15.08	15.08	15.66	16.24	16.82
80	6.38	5.80	6.96	6.96	6.96	6.96	7.54	8.12	8.70	9.28
85	0.58	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.74	1.74
90	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58
95	19.72	25.52	24.94	25.52	26.10	27.26	29.58	30.16	29.00	29.58
100	85.26	79.46	80.62	80.62	81.20	80.62	80.62	80.04	78.30	75.40
105	148.48	140.94	140.94	142.10	141.52	140.94	139.20	136.88	133.98	127.60
110	215.18	212.86	205.90	204.74	205.32	203.58	200.68	200.10	192.56	183.86
115	284.78	285.36	280.14	274.92	272.02	271.44	267.96	263.32	256.36	243.02
120	352.64	352.64	352.06	348.00	343.36	338.72	333.50	327.70	315.52	297.54
125	415.28	414.70	414.12	412.38	409.48	402.52	396.72	382.80	368.30	346.84
130	468.64	468.06	465.74	462.26	458.20	451.24	440.80	426.88	407.16	381.64
135	509.82	509.24	506.34	501.70	495.90	487.78	473.86	459.94	436.16	411.80
140	538.82	537.66	533.60	527.80	520.26	510.98	495.90	477.92	455.88	427.46
145	553.90	552.16	547.52	541.14	531.28	519.68	505.76	484.30	461.68	435.58
150	551.58	548.68	544.62	536.50	526.06	513.30	498.22	479.66	457.62	434.42
155	528.38	526.06	522.58	514.46	504.60	492.42	478.50	463.42	444.86	425.14
160	490.68	489.52	485.46	480.24	471.54	461.68	450.66	437.90	424.56	411.80
165	444.86	443.70	440.80	437.90	433.26	426.88	419.92	411.80	403.68	394.40
170	403.68	403.10	401.94	400.20	398.46	396.14	393.82	390.34	386.28	382.22
175	377.58	377.58	377.58	377.00	376.42	375.84	375.26	374.68	374.10	373.52
180	369.46	369.46	369.46	369.46	369.46	369.46	369.46	369.46	369.46	369.46

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	600.30	600.30	600.30	600.30	600.30	600.30	600.30	600.30	600.30
5	593.34	593.92	593.92	594.50	595.08	595.66	596.24	596.82	597.98
10	575.94	578.84	581.74	581.74	582.32	583.48	584.06	585.22	586.96
15	547.52	550.42	553.90	557.38	562.02	562.60	563.76	565.50	567.24
20	502.86	510.98	519.10	522.58	526.64	531.86	533.02	534.18	536.50
25	446.60	458.20	466.90	477.34	481.98	486.62	490.68	491.26	494.16
30	373.52	391.50	406.58	415.86	426.88	430.36	436.16	436.74	440.22
35	296.96	317.84	334.66	348.58	358.44	365.98	370.62	372.36	375.26
40	222.14	243.02	261.00	277.24	288.84	298.70	302.18	304.50	305.66
45	159.50	176.90	193.72	208.80	220.98	232.58	237.22	239.54	240.70
50	110.78	126.44	142.10	154.86	163.56	169.36	173.42	176.32	176.32
55	78.88	88.74	99.76	111.36	119.48	126.44	131.66	134.56	136.30
60	56.26	61.48	70.18	78.30	85.26	91.06	95.12	97.44	98.60

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CANDELA TABULATION - (Cont.)

65	40.02	44.66	49.30	55.10	60.32	63.80	66.70	68.44	70.18
70	27.84	30.74	33.64	37.12	40.60	43.50	45.82	49.30	51.04
75	17.98	19.72	21.46	23.20	25.52	27.26	28.42	29.00	29.58
80	9.86	11.02	11.60	12.76	13.34	14.50	14.50	15.08	15.08
85	2.32	2.90	3.48	3.48	4.64	5.22	5.22	5.22	5.22
90	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58
95	27.26	24.36	21.46	18.56	16.82	15.66	13.92	14.50	14.50
100	69.60	62.64	55.10	49.88	46.98	45.24	44.66	43.50	44.08
105	118.32	107.30	95.12	84.68	78.88	75.40	74.24	73.08	73.08
110	171.68	155.44	138.04	124.12	114.84	110.78	107.30	106.14	106.72
115	224.46	200.68	180.38	162.98	150.80	143.84	139.20	137.46	138.04
120	274.92	247.66	220.98	198.36	183.28	175.16	171.10	168.78	167.62
125	317.26	285.94	256.36	230.26	212.28	202.42	197.20	194.88	193.14
130	352.64	320.16	288.84	262.16	242.44	230.26	223.30	219.82	218.66
135	378.74	346.84	314.94	288.84	269.12	255.20	247.66	243.02	241.86
140	397.88	366.56	336.98	310.88	292.32	277.82	269.12	264.48	262.74
145	407.16	379.90	353.22	330.02	312.04	298.70	290.00	285.36	283.04
150	410.06	386.28	363.08	344.52	327.70	317.84	308.56	305.08	302.76
155	406.00	387.44	370.04	353.80	342.20	332.92	325.96	322.48	320.16
160	397.88	383.96	370.62	361.92	353.22	344.52	341.62	338.72	336.40
165	385.70	379.32	372.36	365.40	359.02	356.12	353.80	352.06	350.32
170	378.16	373.52	369.46	367.72	365.98	364.24	362.50	361.34	359.60
175	372.94	372.36	371.20	370.62	370.04	369.46	368.30	367.72	367.14
180	369.46	369.46	369.46	369.46	369.46	369.46	369.46	369.46	369.46

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	206.92	N.A.	8.60
0-30	399.67	N.A.	16.70
0-40	570.77	N.A.	23.80
0-60	763.70	N.A.	31.90
0-80	827.59	N.A.	34.50
0-90	831.90	N.A.	34.70
10-90	775.83	N.A.	32.40
20-40	363.86	N.A.	15.20
20-50	483.01	N.A.	20.20
40-70	235.94	N.A.	9.80
60-80	63.89	N.A.	2.70
70-80	20.87	N.A.	0.90
80-90	4.31	N.A.	0.20
90-110	152.87	N.A.	6.40
90-120	370.71	N.A.	15.50
90-130	654.87	N.A.	27.30
90-150	1219.47	N.A.	50.90
90-180	1563.93	N.A.	65.30
110-180	1411.06	N.A.	58.90
0-180	2395.83	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	56.06
10-20	150.86
20-30	192.75
30-40	171.10
40-50	119.16
50-60	73.76
60-70	43.02
70-80	20.87
80-90	4.31
90-100	30.91
100-110	121.97
110-120	217.84
120-130	284.16
130-140	299.17
140-150	265.43
150-160	195.77
160-170	112.80
170-180	35.89

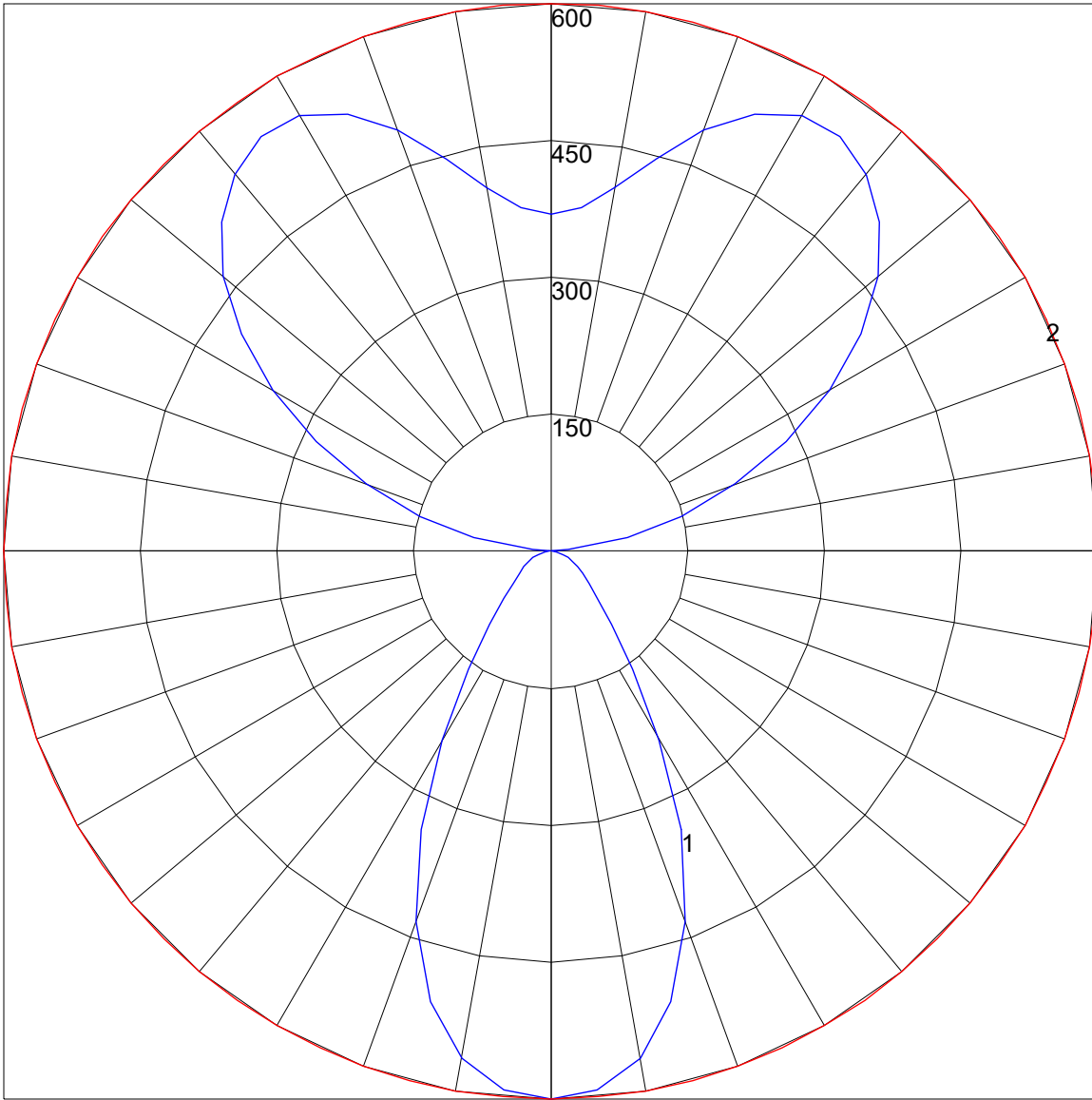
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	103	103	103	103	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	87	81	75	71	79	73	69	65	60	56	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	41	37	40	35	31	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	28	24	21	23	20	18	19	17	15	13

POLAR GRAPH



Maximum Candela = 600.3 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.)