

**IES Report**

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

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

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	122	125	128	131
Total Lumens, 4' rail length (1219mm)	5828	6012	6135	6257
Lumens per foot (305mm)	1457	1503	1534	1564
Lumens per foot UP (305mm)	754	778	794	810
Lumens per foot DOWN (305mm)	703	725	740	755
Input Power (W), 4' rail length (1219mm)	48.1	48.1	48.1	48.1
Watts per foot (305mm)	12.1	12.1	12.1	12.1
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\_SO\_35\_G12.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] L011800110 (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-SO-35-G12  
[LUMINAIRE] DoubleBox LED, 48", 3500K, 80 CRI, zipper board,  
[MORE] 120° batwing lens up with white polycarbonate reflectors/diffuse lens down, standard output  
[TEST PROCEDURE] IESNA:LM-79-08

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6135
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	127
Total Luminaire Watts	48.13
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	9633	12262	34075
55	6286	8364	29123
65	3602	5024	23954
75	1406	2415	18655
85	153	335	11598

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>
<b>0</b>	1235.40	1235.40	1235.40	1235.40	1235.40	1235.40	1235.40	1235.40	1235.40	1235.40
<b>5</b>	1228.44	1227.28	1227.28	1226.12	1226.12	1226.12	1226.12	1224.96	1224.96	1224.96
<b>10</b>	1206.40	1205.24	1205.24	1204.08	1204.08	1205.24	1205.24	1204.08	1204.08	1204.08
<b>15</b>	1170.44	1169.28	1168.12	1169.28	1169.28	1168.12	1168.12	1168.12	1170.44	1170.44
<b>20</b>	1120.56	1118.24	1119.40	1119.40	1118.24	1118.24	1119.40	1119.40	1120.56	1121.72
<b>25</b>	1056.76	1054.44	1055.60	1054.44	1055.60	1055.60	1055.60	1059.08	1057.92	1057.92
<b>30</b>	980.20	979.04	979.04	979.04	979.04	980.20	982.52	982.52	982.52	983.68
<b>35</b>	893.20	892.04	890.88	892.04	892.04	893.20	895.52	894.36	896.68	897.84
<b>40</b>	795.76	795.76	795.76	795.76	796.92	798.08	799.24	800.40	801.56	803.88
<b>45</b>	692.52	693.68	693.68	693.68	694.84	696.00	698.32	701.80	700.64	704.12
<b>50</b>	586.96	586.96	586.96	588.12	590.44	591.60	595.08	596.24	598.56	600.88
<b>55</b>	480.24	480.24	482.56	483.72	484.88	486.04	489.52	491.84	495.32	498.80
<b>60</b>	380.48	380.48	380.48	378.16	378.16	378.16	381.64	383.96	390.92	396.72
<b>65</b>	283.04	284.20	279.56	277.24	278.40	280.72	285.36	291.16	296.96	301.60
<b>70</b>	193.72	190.24	186.76	187.92	193.72	197.20	200.68	205.32	211.12	216.92
<b>75</b>	110.20	104.40	109.04	111.36	114.84	118.32	122.96	128.76	134.56	141.52
<b>80</b>	45.24	44.08	45.24	47.56	48.72	51.04	55.68	61.48	66.12	75.40
<b>85</b>	11.60	12.76	12.76	12.76	12.76	12.76	12.76	13.92	16.24	18.56
<b>90</b>	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16
<b>95</b>	42.92	48.72	49.88	51.04	53.36	54.52	56.84	61.48	58.00	58.00
<b>100</b>	174.00	158.92	162.40	163.56	163.56	162.40	161.24	160.08	156.60	149.64
<b>105</b>	301.60	280.72	284.20	285.36	284.20	283.04	279.56	274.92	269.12	257.52
<b>110</b>	437.32	428.04	411.80	410.64	412.96	408.32	401.36	399.04	388.60	372.36
<b>115</b>	576.52	576.52	561.44	548.68	544.04	540.56	535.92	526.64	513.88	490.68
<b>120</b>	712.24	711.08	707.60	697.16	686.72	677.44	668.16	657.72	633.36	600.88
<b>125</b>	835.20	834.04	831.72	827.08	821.28	807.36	796.92	770.24	741.24	701.80
<b>130</b>	941.92	939.60	934.96	928.00	921.04	907.12	888.56	861.88	824.76	776.04
<b>135</b>	1025.44	1024.28	1018.48	1009.20	997.60	983.68	958.16	932.64	886.24	839.84
<b>140</b>	1086.92	1084.60	1077.64	1067.20	1053.28	1035.88	1008.04	972.08	930.32	874.64
<b>145</b>	1122.88	1118.24	1110.12	1098.52	1079.96	1057.92	1032.40	989.48	944.24	892.04
<b>150</b>	1121.72	1117.08	1107.80	1092.72	1073.00	1047.48	1018.48	980.20	936.12	888.56
<b>155</b>	1077.64	1073.00	1064.88	1049.80	1031.24	1006.88	979.04	948.88	909.44	870.00
<b>160</b>	1001.08	998.76	990.64	980.20	962.80	943.08	921.04	894.36	866.52	841.00
<b>165</b>	907.12	904.80	899.00	893.20	883.92	871.16	856.08	841.00	823.60	805.04
<b>170</b>	821.28	820.12	817.80	814.32	810.84	806.20	800.40	793.44	786.48	778.36
<b>175</b>	766.76	766.76	765.60	764.44	764.44	763.28	762.12	760.96	759.80	758.64
<b>180</b>	749.36	749.36	749.36	749.36	749.36	749.36	749.36	749.36	749.36	749.36

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>
<b>0</b>	1235.40	1235.40	1235.40	1235.40	1235.40	1235.40	1235.40	1235.40	1235.40
<b>5</b>	1224.96	1226.12	1226.12	1226.12	1226.12	1227.28	1227.28	1227.28	1228.44
<b>10</b>	1204.08	1205.24	1206.40	1205.24	1205.24	1205.24	1205.24	1206.40	1207.56
<b>15</b>	1170.44	1170.44	1170.44	1170.44	1172.76	1171.60	1171.60	1172.76	1173.92
<b>20</b>	1121.72	1121.72	1122.88	1121.72	1122.88	1125.20	1124.04	1124.04	1126.36
<b>25</b>	1060.24	1060.24	1060.24	1061.40	1061.40	1062.56	1062.56	1061.40	1062.56
<b>30</b>	984.84	984.84	986.00	986.00	989.48	989.48	991.80	988.32	989.48
<b>35</b>	899.00	901.32	900.16	901.32	902.48	903.64	904.80	903.64	905.96
<b>40</b>	805.04	806.20	807.36	808.52	808.52	808.52	808.52	809.68	812.00
<b>45</b>	704.12	705.28	706.44	707.60	709.92	708.76	708.76	709.92	713.40
<b>50</b>	604.36	604.36	604.36	605.52	607.84	606.68	606.68	606.68	605.52
<b>55</b>	501.12	502.28	502.28	504.60	504.60	504.60	503.44	504.60	505.76
<b>60</b>	402.52	399.04	402.52	407.16	408.32	406.00	402.52	399.04	397.88

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**CANDELA TABULATION - (Cont.)**

<b>65</b>	309.72	313.20	315.52	317.84	317.84	317.84	317.84	316.68	317.84
<b>70</b>	222.72	227.36	232.00	234.32	235.48	236.64	236.64	236.64	237.80
<b>75</b>	147.32	153.12	157.76	160.08	162.40	162.40	163.56	164.72	163.56
<b>80</b>	80.04	85.84	96.28	99.76	99.76	98.60	99.76	100.92	99.76
<b>85</b>	22.04	25.52	30.16	37.12	40.60	41.76	45.24	46.40	46.40
<b>90</b>	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16
<b>95</b>	55.68	48.72	42.92	39.44	33.64	31.32	30.16	30.16	29.00
<b>100</b>	140.36	127.60	112.52	103.24	97.44	92.80	91.64	91.64	90.48
<b>105</b>	238.96	216.92	193.72	174.00	161.24	154.28	151.96	150.80	150.80
<b>110</b>	346.84	314.36	280.72	254.04	234.32	225.04	221.56	218.08	216.92
<b>115</b>	454.72	404.84	364.24	331.76	307.40	293.48	286.52	283.04	281.88
<b>120</b>	557.96	504.60	447.76	406.00	378.16	359.60	349.16	345.68	345.68
<b>125</b>	643.80	582.32	522.00	472.12	439.64	412.96	395.56	390.92	388.60
<b>130</b>	719.20	651.92	589.28	535.92	496.48	472.12	458.20	451.24	448.92
<b>135</b>	772.56	707.60	643.80	591.60	551.00	523.16	508.08	498.80	495.32
<b>140</b>	814.32	749.36	690.20	636.84	598.56	568.40	552.16	542.88	539.40
<b>145</b>	834.04	778.36	723.84	676.28	639.16	612.48	593.92	584.64	580.00
<b>150</b>	839.84	791.12	744.72	706.44	671.64	649.60	631.04	624.08	619.44
<b>155</b>	830.56	792.28	757.48	723.84	700.64	680.92	665.84	658.88	654.24
<b>160</b>	813.16	785.32	757.48	738.92	721.52	702.96	697.16	691.36	686.72
<b>165</b>	787.64	773.72	759.80	745.88	731.96	726.16	721.52	716.88	713.40
<b>170</b>	769.08	760.96	751.68	748.20	744.72	741.24	738.92	735.44	731.96
<b>175</b>	757.48	755.16	754.00	752.84	751.68	749.36	748.20	747.04	745.88
<b>180</b>	749.36	749.36	749.36	749.36	749.36	749.36	749.36	749.36	749.36

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	446.16	N.A.	7.30
0-30	933.30	N.A.	15.20
0-40	1494.18	N.A.	24.40
0-60	2478.82	N.A.	40.40
0-80	2926.79	N.A.	47.70
0-90	2960.6	N.A.	48.30
10-90	2844.19	N.A.	46.40
20-40	1048.02	N.A.	17.10
20-50	1589.61	N.A.	25.90
40-70	1283.41	N.A.	20.90
60-80	447.97	N.A.	7.30
70-80	149.20	N.A.	2.40
80-90	33.81	N.A.	0.60
90-110	308.89	N.A.	5.00
90-120	748.42	N.A.	12.20
90-130	1322.6	N.A.	21.60
90-150	2471.14	N.A.	40.30
90-180	3174.13	N.A.	51.70
110-180	2865.24	N.A.	46.70
0-180	6134.73	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	116.41
10-20	329.75
20-30	487.14
30-40	560.88
40-50	541.59
50-60	443.05
60-70	298.77
70-80	149.20
80-90	33.81
90-100	62.42
100-110	246.47
110-120	439.53
120-130	574.18
130-140	607.16
140-150	541.38
150-160	399.99
160-170	230.07
170-180	72.93

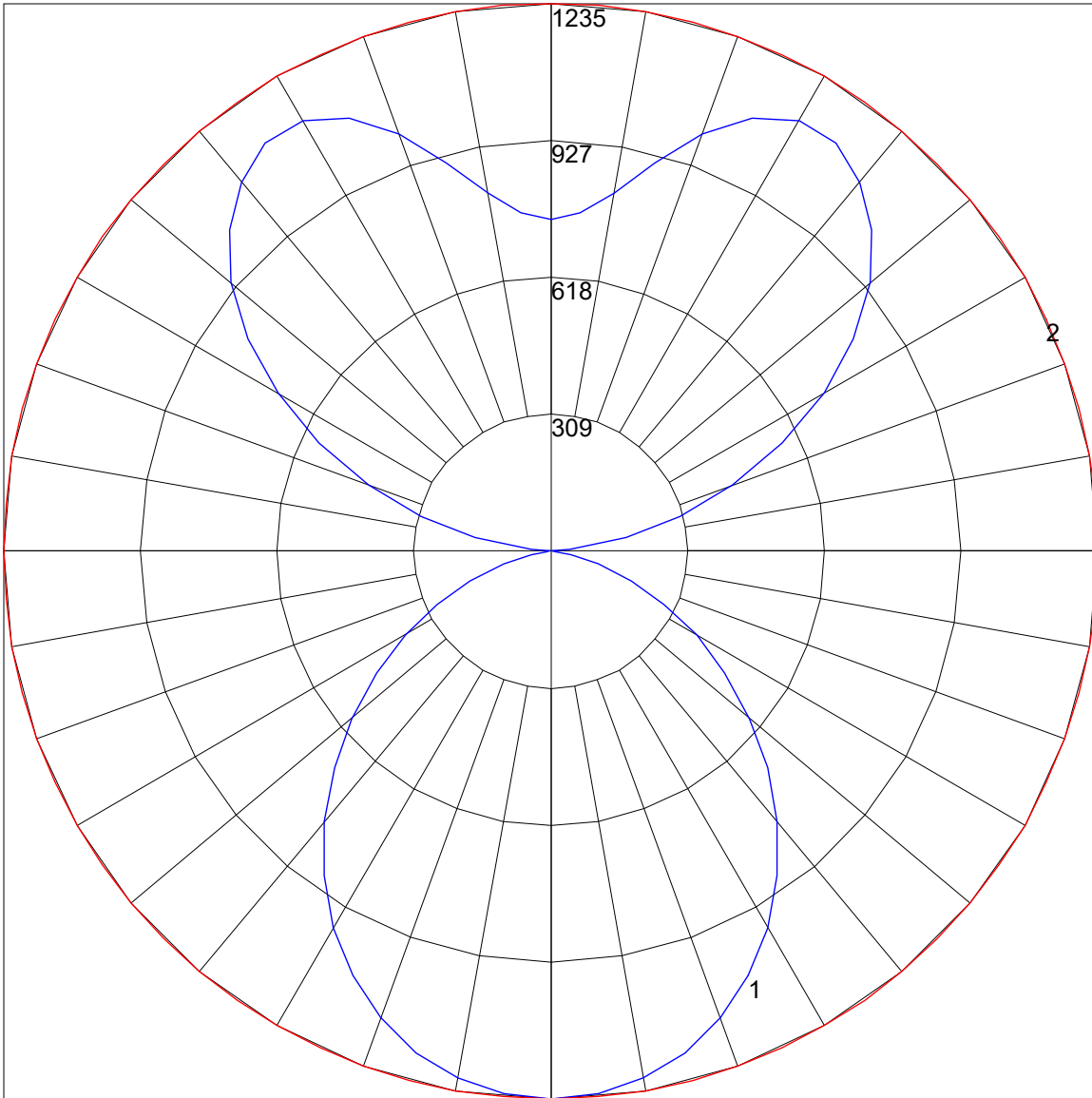
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	0
1	98	94	90	86	90	86	83	80	73	70	68	60	59	57	49	48	47	41	0
2	89	82	76	71	82	76	71	66	64	60	57	53	51	48	43	41	40	35	0
3	82	72	65	59	75	67	61	56	57	52	48	47	44	41	38	36	34	30	0
4	75	64	56	50	69	59	53	47	50	45	41	42	38	35	35	32	30	26	0
5	69	57	49	43	63	53	46	41	45	40	36	38	34	31	31	28	26	23	0
6	63	51	43	38	58	48	41	35	41	35	31	34	30	27	28	25	23	20	0
7	58	46	39	33	54	43	36	31	37	32	28	31	27	24	26	23	20	18	0
8	54	42	35	29	50	39	32	28	34	28	25	29	24	21	24	21	18	16	0
9	51	38	31	26	47	36	29	25	31	26	22	26	22	19	22	19	17	14	0
10	47	35	28	23	44	33	27	22	29	23	20	24	20	17	20	17	15	13	0

POLAR GRAPH



Maximum Candela = 1235.4 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.)