

**IES Report**

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

107-DB-XX-4-48-XX-XX-XX-XX-X-X-Z-SO-35-G1S1-X-AL / WH-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	88	91	93	95
Total Lumens, 4' rail length (1219mm)	4225	4358	4447	4536
Lumens per foot (305mm)	1056	1090	1112	1134
Lumens per foot UP (305mm)	737	761	776	792
Lumens per foot DOWN (305mm)	319	329	336	343
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\_G1S1.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] L011800103 (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-SO-35-G1S1  
 [LUMINAIRE] DoubleBox LED, 48", 3500K, 80 CRI, zipper board,  
 [MORE] 120° batwing lens up with white polycarbonate reflectors/40° white symmetric 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	4447
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	92
Total Luminaire Watts	48.19
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	1307	2707	24767
55	820	1478	15363
65	531	850	9354
75	281	435	5821
85	15	63	2030

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>	1276.00	1276.00	1276.00	1276.00	1276.00	1276.00	1276.00	1276.00	1276.00	1276.00
<b>5</b>	1214.52	1214.52	1214.52	1214.52	1215.68	1218.00	1219.16	1221.48	1224.96	1228.44
<b>10</b>	1041.68	1041.68	1044.00	1049.80	1057.92	1068.36	1081.12	1095.04	1111.28	1128.68
<b>15</b>	801.56	801.56	809.68	822.44	839.84	859.56	885.08	914.08	948.88	984.84
<b>20</b>	555.64	557.96	570.72	588.12	609.00	636.84	670.48	709.92	752.84	801.56
<b>25</b>	364.24	366.56	377.00	392.08	412.96	440.80	475.60	513.88	562.60	619.44
<b>30</b>	234.32	235.48	243.60	257.52	274.92	296.96	321.32	357.28	402.52	448.92
<b>35</b>	161.24	162.40	167.04	175.16	186.76	200.68	218.08	247.08	276.08	315.52
<b>40</b>	118.32	119.48	121.80	127.60	135.72	142.68	156.60	172.84	191.40	222.72
<b>45</b>	93.96	95.12	96.28	99.76	104.40	107.88	117.16	125.28	140.36	155.44
<b>50</b>	76.56	76.56	77.72	80.04	83.52	87.00	90.48	97.44	104.40	117.16
<b>55</b>	62.64	63.80	64.96	66.12	67.28	69.60	71.92	76.56	81.20	88.16
<b>60</b>	52.20	52.20	52.20	53.36	53.36	54.52	56.84	59.16	62.64	67.28
<b>65</b>	41.76	41.76	41.76	41.76	41.76	42.92	44.08	45.24	47.56	51.04
<b>70</b>	31.32	31.32	31.32	31.32	32.48	32.48	33.64	33.64	34.80	37.12
<b>75</b>	22.04	22.04	22.04	23.20	23.20	23.20	23.20	23.20	24.36	25.52
<b>80</b>	10.44	9.28	11.60	11.60	11.60	11.60	12.76	12.76	13.92	13.92
<b>85</b>	1.16	2.32	2.32	2.32	2.32	2.32	2.32	2.32	3.48	3.48
<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>	48.72	48.72	47.56	47.56	48.72	48.72	51.04	52.20	54.52	54.52
<b>100</b>	165.88	149.64	153.12	153.12	153.12	151.96	150.80	149.64	146.16	143.84
<b>105</b>	286.52	265.64	269.12	270.28	269.12	269.12	266.80	262.16	257.52	247.08
<b>110</b>	422.24	412.96	393.24	390.92	394.40	395.56	390.92	385.12	368.88	356.12
<b>115</b>	557.96	556.80	540.56	527.80	523.16	520.84	517.36	509.24	496.48	474.44
<b>120</b>	691.36	689.04	686.72	676.28	664.68	655.40	647.28	636.84	615.96	585.80
<b>125</b>	816.64	814.32	812.00	808.52	801.56	787.64	778.36	752.84	726.16	687.88
<b>130</b>	925.68	923.36	918.72	911.76	904.80	892.04	873.48	846.80	810.84	762.12
<b>135</b>	1010.36	1008.04	1003.40	994.12	982.52	968.60	943.08	916.40	871.16	823.60
<b>140</b>	1070.68	1067.20	1060.24	1049.80	1035.88	1018.48	989.48	953.52	911.76	857.24
<b>145</b>	1102.00	1097.36	1089.24	1077.64	1059.08	1037.04	1011.52	968.60	925.68	874.64
<b>150</b>	1097.36	1093.88	1085.76	1069.52	1049.80	1025.44	996.44	959.32	917.56	872.32
<b>155</b>	1054.44	1049.80	1042.84	1027.76	1009.20	986.00	958.16	929.16	892.04	854.92
<b>160</b>	980.20	977.88	970.92	960.48	944.24	925.68	904.80	879.28	852.60	827.08
<b>165</b>	889.72	888.56	883.92	876.96	868.84	856.08	843.32	828.24	812.00	793.44
<b>170</b>	808.52	807.36	805.04	802.72	799.24	794.60	789.96	783.00	774.88	767.92
<b>175</b>	756.32	756.32	755.16	755.16	754.00	752.84	751.68	750.52	749.36	748.20
<b>180</b>	738.92	738.92	738.92	738.92	738.92	738.92	738.92	738.92	738.92	738.92

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>	1276.00	1276.00	1276.00	1276.00	1276.00	1276.00	1276.00	1276.00	1276.00
<b>5</b>	1231.92	1235.40	1240.04	1244.68	1249.32	1253.96	1258.60	1264.40	1270.20
<b>10</b>	1149.56	1171.60	1194.80	1202.92	1211.04	1220.32	1229.60	1240.04	1250.48
<b>15</b>	1019.64	1049.80	1083.44	1119.40	1160.00	1172.76	1186.68	1201.76	1218.00
<b>20</b>	852.60	905.96	961.64	1005.72	1054.44	1106.64	1122.88	1141.44	1162.32
<b>25</b>	680.92	742.40	806.20	874.64	932.64	990.64	1034.72	1054.44	1078.80
<b>30</b>	508.08	576.52	644.96	719.20	795.76	858.40	923.36	944.24	970.92
<b>35</b>	366.56	423.40	491.84	561.44	638.00	708.76	773.72	806.20	831.72
<b>40</b>	255.20	303.92	356.12	415.28	483.72	555.64	614.80	651.92	673.96
<b>45</b>	182.12	212.28	254.04	302.76	356.12	410.64	461.68	499.96	518.52
<b>50</b>	131.08	151.96	180.96	215.76	255.20	296.96	335.24	364.24	377.00
<b>55</b>	98.60	111.36	128.76	151.96	179.80	208.80	235.48	256.36	266.80
<b>60</b>	74.24	82.36	93.96	109.04	126.44	145.00	163.56	177.48	184.44

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**CANDELA TABULATION - (Cont.)**

<b>65</b>	55.68	60.32	68.44	77.72	89.32	102.08	112.52	120.64	124.12
<b>70</b>	39.44	42.92	47.56	53.36	60.32	67.28	75.40	88.16	88.16
<b>75</b>	26.68	29.00	31.32	34.80	38.28	42.92	45.24	48.72	51.04
<b>80</b>	15.08	16.24	17.40	18.56	20.88	22.04	24.36	25.52	26.68
<b>85</b>	4.64	4.64	5.80	5.80	8.12	8.12	8.12	8.12	8.12
<b>90</b>	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16
<b>95</b>	51.04	46.40	41.76	37.12	32.48	31.32	29.00	29.00	30.16
<b>100</b>	135.72	122.96	110.20	100.92	93.96	90.48	89.32	88.16	88.16
<b>105</b>	230.84	209.96	189.08	169.36	156.60	151.96	147.32	145.00	147.32
<b>110</b>	334.08	306.24	274.92	248.24	230.84	220.40	214.60	211.12	211.12
<b>115</b>	437.32	394.40	359.60	325.96	302.76	287.68	279.56	276.08	274.92
<b>120</b>	545.20	494.16	441.96	399.04	368.88	351.48	342.20	337.56	337.56
<b>125</b>	633.36	574.20	515.04	464.00	429.20	407.16	394.40	388.60	387.44
<b>130</b>	707.60	642.64	581.16	527.80	488.36	465.16	450.08	441.96	439.64
<b>135</b>	759.80	697.16	634.52	582.32	541.72	515.04	498.80	490.68	487.20
<b>140</b>	799.24	736.60	678.60	626.40	589.28	560.28	544.04	533.60	528.96
<b>145</b>	817.80	763.28	711.08	664.68	628.72	602.04	584.64	575.36	570.72
<b>150</b>	824.76	777.20	731.96	694.84	661.20	640.32	620.60	614.80	610.16
<b>155</b>	816.64	779.52	744.72	712.24	690.20	670.48	656.56	649.60	644.96
<b>160</b>	800.40	772.56	745.88	728.48	711.08	693.68	687.88	682.08	677.44
<b>165</b>	776.04	763.28	749.36	735.44	722.68	716.88	712.24	707.60	704.12
<b>170</b>	759.80	750.52	742.40	738.92	735.44	731.96	728.48	726.16	722.68
<b>175</b>	747.04	745.88	744.72	743.56	741.24	740.08	738.92	737.76	735.44
<b>180</b>	738.92	738.92	738.92	738.92	738.92	738.92	738.92	738.92	738.92

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	391.06	N.A.	8.80
0-30	698.37	N.A.	15.70
0-40	951.54	N.A.	21.40
0-60	1238.28	N.A.	27.80
0-80	1336.15	N.A.	30.00
0-90	1343.27	N.A.	30.20
10-90	1228.55	N.A.	27.60
20-40	560.48	N.A.	12.60
20-50	736.28	N.A.	16.60
40-70	352.28	N.A.	7.90
60-80	97.87	N.A.	2.20
70-80	32.33	N.A.	0.70
80-90	7.12	N.A.	0.20
90-110	295.75	N.A.	6.60
90-120	721.94	N.A.	16.20
90-130	1284.43	N.A.	28.90
90-150	2412.99	N.A.	54.30
90-180	3104.13	N.A.	69.80
110-180	2808.38	N.A.	63.10
0-180	4447.4	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	114.73
10-20	276.33
20-30	307.31
30-40	253.17
40-50	175.80
50-60	110.94
60-70	65.54
70-80	32.33
80-90	7.12
90-100	59.17
100-110	236.59
110-120	426.19
120-130	562.49
130-140	597.14
140-150	531.42
150-160	392.65
160-170	226.53
170-180	71.95

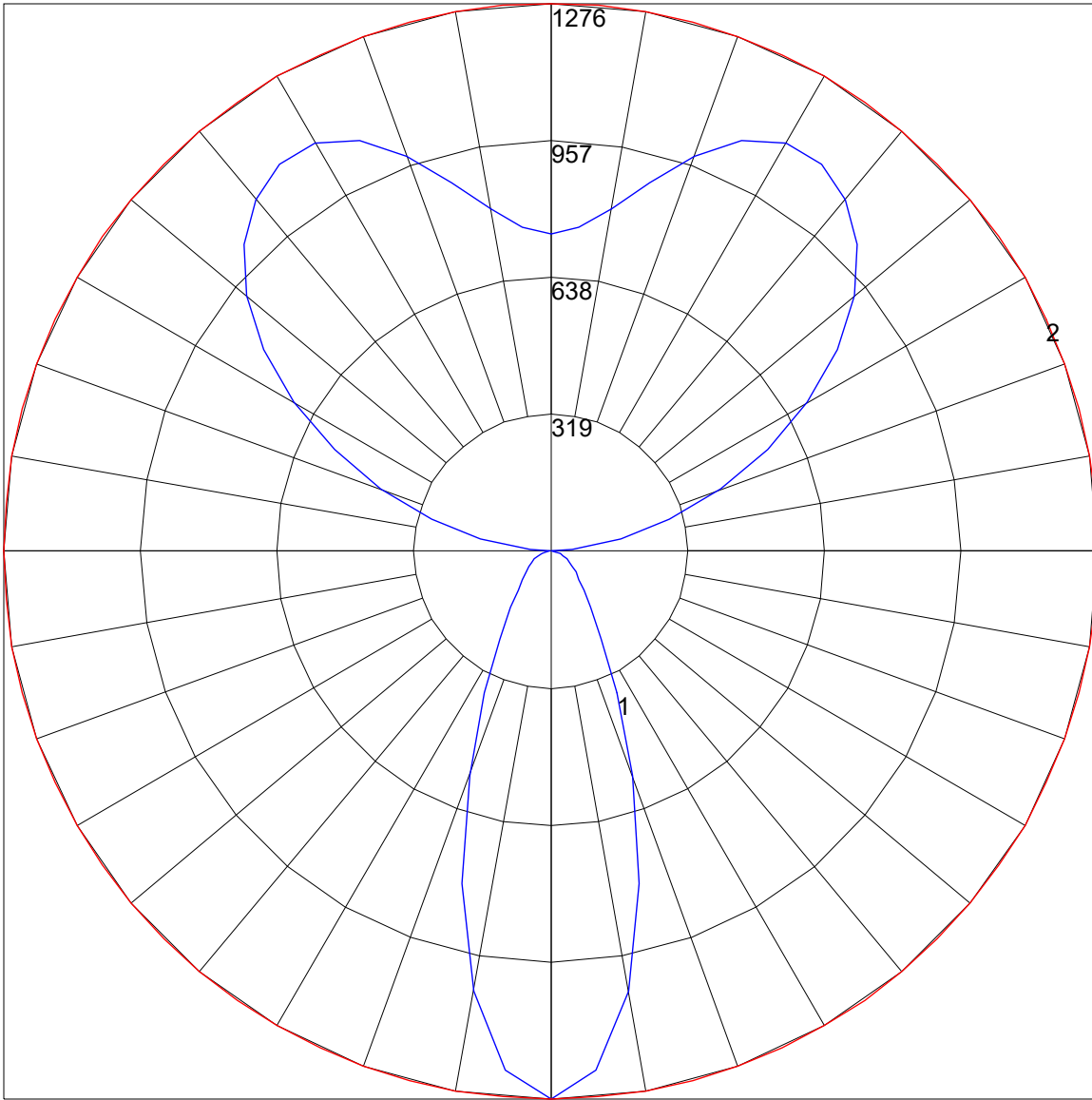
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	92	92	92	92	72	72	72	54	54	54	38	38	38	30	0
1	94	90	87	84	85	81	78	76	65	63	61	49	48	47	35	34	34	27	0
2	87	80	75	70	78	72	68	64	58	55	52	44	42	41	32	31	30	24	0
3	80	71	65	59	71	64	59	54	52	48	45	40	38	35	29	28	27	22	0
4	73	64	56	51	66	58	52	47	47	42	39	36	34	31	27	25	24	20	0
5	68	57	50	44	61	52	46	41	42	38	34	33	30	28	25	23	21	18	0
6	63	52	44	39	56	47	41	36	38	34	31	30	27	25	23	21	20	16	0
7	58	47	40	35	52	43	37	32	35	31	27	28	25	23	21	19	18	15	0
8	54	43	36	31	49	39	33	29	32	28	25	26	23	21	20	18	16	14	0
9	51	39	33	28	46	36	30	26	30	25	22	24	21	19	19	17	15	13	0
10	47	36	30	25	43	33	28	24	28	23	20	22	19	17	17	15	14	12	0

POLAR GRAPH



Maximum Candela = 1276 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.)