

IES Report

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

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

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	95	98	100	102
Total Lumens, 4' rail length (1219mm)	4552	4696	4792	4887
Lumens per foot (305mm)	1138	1174	1198	1222
Lumens per foot UP (305mm)	743	766	782	798
Lumens per foot DOWN (305mm)	395	408	416	424
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_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-SO-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, standard output
[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4792
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	100
Total Luminaire Watts	48.15
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	2017	4889	22994
55	1108	2354	15697
65	679	1198	10578
75	370	574	6747
85	15	63	2610

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	1200.60	1200.60	1200.60	1200.60	1200.60	1200.60	1200.60	1200.60	1200.60	1200.60
5	1184.36	1184.36	1183.20	1184.36	1184.36	1184.36	1184.36	1184.36	1185.52	1185.52
10	1129.84	1128.68	1128.68	1131.00	1132.16	1135.64	1139.12	1141.44	1143.76	1147.24
15	1021.96	1021.96	1026.60	1032.40	1039.36	1044.00	1052.12	1061.40	1073.00	1085.76
20	864.20	863.04	871.16	880.44	889.72	904.80	924.52	946.56	972.08	989.48
25	673.96	671.64	678.60	692.52	712.24	736.60	767.92	803.88	830.56	859.56
30	476.76	479.08	490.68	509.24	533.60	563.76	597.40	632.20	671.64	709.92
35	315.52	321.32	335.24	354.96	378.16	401.36	429.20	467.48	508.08	549.84
40	208.80	214.60	226.20	241.28	259.84	274.92	300.44	330.60	360.76	403.68
45	145.00	150.80	157.76	168.20	177.48	187.92	209.96	227.36	255.20	280.72
50	109.04	111.36	114.84	121.80	126.44	134.56	146.16	160.08	177.48	198.36
55	84.68	85.84	89.32	92.80	95.12	99.76	105.56	116.00	126.44	140.36
60	67.28	68.44	70.76	71.92	73.08	75.40	78.88	83.52	91.64	100.92
65	53.36	54.52	54.52	54.52	55.68	56.84	59.16	62.64	67.28	71.92
70	40.60	41.76	40.60	40.60	41.76	42.92	44.08	45.24	47.56	51.04
75	29.00	27.84	29.00	29.00	29.00	30.16	30.16	31.32	32.48	33.64
80	12.76	11.60	13.92	13.92	13.92	13.92	15.08	16.24	17.40	18.56
85	1.16	2.32	2.32	2.32	2.32	2.32	2.32	2.32	3.48	3.48
90	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16
95	39.44	51.04	49.88	51.04	52.20	54.52	59.16	60.32	58.00	59.16
100	170.52	158.92	161.24	161.24	162.40	161.24	161.24	160.08	156.60	150.80
105	296.96	281.88	281.88	284.20	283.04	281.88	278.40	273.76	267.96	255.20
110	430.36	425.72	411.80	409.48	410.64	407.16	401.36	400.20	385.12	367.72
115	569.56	570.72	560.28	549.84	544.04	542.88	535.92	526.64	512.72	486.04
120	705.28	705.28	704.12	696.00	686.72	677.44	667.00	655.40	631.04	595.08
125	830.56	829.40	828.24	824.76	818.96	805.04	793.44	765.60	736.60	693.68
130	937.28	936.12	931.48	924.52	916.40	902.48	881.60	853.76	814.32	763.28
135	1019.64	1018.48	1012.68	1003.40	991.80	975.56	947.72	919.88	872.32	823.60
140	1077.64	1075.32	1067.20	1055.60	1040.52	1021.96	991.80	955.84	911.76	854.92
145	1107.80	1104.32	1095.04	1082.28	1062.56	1039.36	1011.52	968.60	923.36	871.16
150	1103.16	1097.36	1089.24	1073.00	1052.12	1026.60	996.44	959.32	915.24	868.84
155	1056.76	1052.12	1045.16	1028.92	1009.20	984.84	957.00	926.84	889.72	850.28
160	981.36	979.04	970.92	960.48	943.08	923.36	901.32	875.80	849.12	823.60
165	889.72	887.40	881.60	875.80	866.52	853.76	839.84	823.60	807.36	788.80
170	807.36	806.20	803.88	800.40	796.92	792.28	787.64	780.68	772.56	764.44
175	755.16	755.16	755.16	754.00	752.84	751.68	750.52	749.36	748.20	747.04
180	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>
0	1200.60	1200.60	1200.60	1200.60	1200.60	1200.60	1200.60	1200.60	1200.60
5	1186.68	1187.84	1187.84	1189.00	1190.16	1191.32	1192.48	1193.64	1195.96
10	1151.88	1157.68	1163.48	1163.48	1164.64	1166.96	1168.12	1170.44	1173.92
15	1095.04	1100.84	1107.80	1114.76	1124.04	1125.20	1127.52	1131.00	1134.48
20	1005.72	1021.96	1038.20	1045.16	1053.28	1063.72	1066.04	1068.36	1073.00
25	893.20	916.40	933.80	954.68	963.96	973.24	981.36	982.52	988.32
30	747.04	783.00	813.16	831.72	853.76	860.72	872.32	873.48	880.44
35	593.92	635.68	669.32	697.16	716.88	731.96	741.24	744.72	750.52
40	444.28	486.04	522.00	554.48	577.68	597.40	604.36	609.00	611.32
45	319.00	353.80	387.44	417.60	441.96	465.16	474.44	479.08	481.40
50	221.56	252.88	284.20	309.72	327.12	338.72	346.84	352.64	352.64
55	157.76	177.48	199.52	222.72	238.96	252.88	263.32	269.12	272.60
60	112.52	122.96	140.36	156.60	170.52	182.12	190.24	194.88	197.20

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CANDELA TABULATION - (Cont.)

65	80.04	89.32	98.60	110.20	120.64	127.60	133.40	136.88	140.36
70	55.68	61.48	67.28	74.24	81.20	87.00	91.64	98.60	102.08
75	35.96	39.44	42.92	46.40	51.04	54.52	56.84	58.00	59.16
80	19.72	22.04	23.20	25.52	26.68	29.00	29.00	30.16	30.16
85	4.64	5.80	6.96	6.96	9.28	10.44	10.44	10.44	10.44
90	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16
95	54.52	48.72	42.92	37.12	33.64	31.32	27.84	29.00	29.00
100	139.20	125.28	110.20	99.76	93.96	90.48	89.32	87.00	88.16
105	236.64	214.60	190.24	169.36	157.76	150.80	148.48	146.16	146.16
110	343.36	310.88	276.08	248.24	229.68	221.56	214.60	212.28	213.44
115	448.92	401.36	360.76	325.96	301.60	287.68	278.40	274.92	276.08
120	549.84	495.32	441.96	396.72	366.56	350.32	342.20	337.56	335.24
125	634.52	571.88	512.72	460.52	424.56	404.84	394.40	389.76	386.28
130	705.28	640.32	577.68	524.32	484.88	460.52	446.60	439.64	437.32
135	757.48	693.68	629.88	577.68	538.24	510.40	495.32	486.04	483.72
140	795.76	733.12	673.96	621.76	584.64	555.64	538.24	528.96	525.48
145	814.32	759.80	706.44	660.04	624.08	597.40	580.00	570.72	566.08
150	820.12	772.56	726.16	689.04	655.40	635.68	617.12	610.16	605.52
155	812.00	774.88	740.08	707.60	684.40	665.84	651.92	644.96	640.32
160	795.76	767.92	741.24	723.84	706.44	689.04	683.24	677.44	672.80
165	771.40	758.64	744.72	730.80	718.04	712.24	707.60	704.12	700.64
170	756.32	747.04	738.92	735.44	731.96	728.48	725.00	722.68	719.20
175	745.88	744.72	742.40	741.24	740.08	738.92	736.60	735.44	734.28
180	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	413.84	N.A.	8.60
0-30	799.35	N.A.	16.70
0-40	1141.55	N.A.	23.80
0-60	1527.39	N.A.	31.90
0-80	1655.17	N.A.	34.50
0-90	1663.79	N.A.	34.70
10-90	1551.67	N.A.	32.40
20-40	727.71	N.A.	15.20
20-50	966.03	N.A.	20.20
40-70	471.89	N.A.	9.80
60-80	127.78	N.A.	2.70
70-80	41.74	N.A.	0.90
80-90	8.62	N.A.	0.20
90-110	305.75	N.A.	6.40
90-120	741.42	N.A.	15.50
90-130	1309.75	N.A.	27.30
90-150	2438.93	N.A.	50.90
90-180	3127.87	N.A.	65.30
110-180	2822.12	N.A.	58.90
0-180	4791.66	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	112.13
10-20	301.71
20-30	385.51
30-40	342.20
40-50	238.32
50-60	147.53
60-70	86.04
70-80	41.74
80-90	8.62
90-100	61.82
100-110	243.93
110-120	435.67
120-130	568.33
130-140	598.33
140-150	530.85
150-160	391.53
160-170	225.61
170-180	71.79

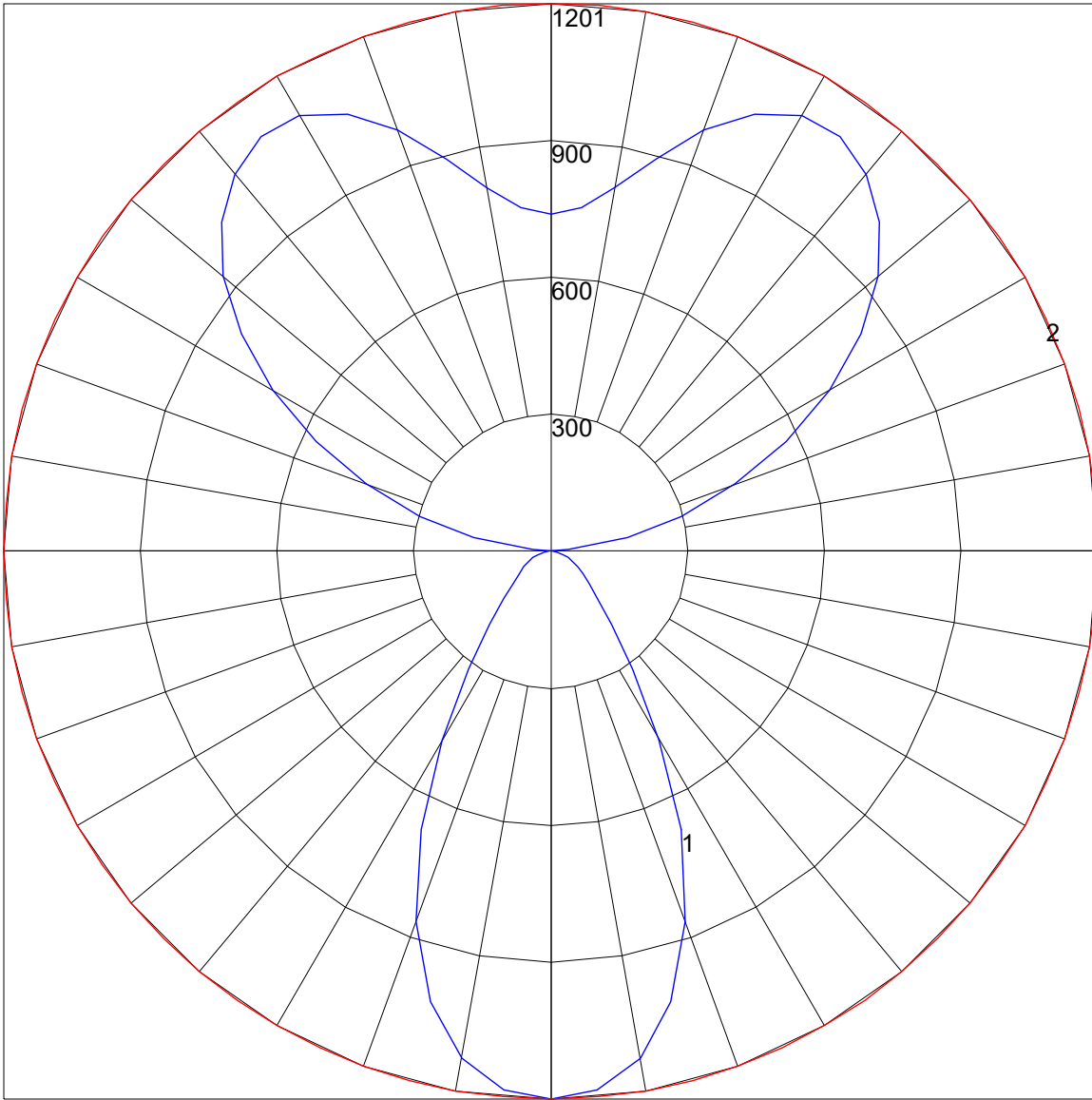
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 1200.6 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.)