

IES Report

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

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

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	93	96	98	100
Total Lumens, 4' rail length (1219mm)	4452	4593	4686	4780
Lumens per foot (305mm)	1113	1148	1172	1195
Lumens per foot UP (305mm)	719	742	757	772
Lumens per foot DOWN (305mm)	394	407	415	423
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_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-SO-35-G1WB
[LUMINAIRE] DoubleBox LED, 48", 3500K, 80 CRI, zipper board,
[MORE] 120° batwing lens up with white polycarbonate reflectors/white baffle down, standard output
[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4686
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	97
Total Luminaire Watts	48.1
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	1969	5070	10971
55	1564	2587	8550
65	1137	1372	6907
75	326	515	4101
85	77	105	1160

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	1321.24	1321.24	1321.24	1321.24	1321.24	1321.24	1321.24	1321.24	1321.24	1321.24
5	1317.76	1311.96	1306.16	1300.36	1294.56	1288.76	1282.96	1278.32	1273.68	1269.04
10	1303.84	1291.08	1279.48	1267.88	1257.44	1247.00	1237.72	1220.32	1204.08	1190.16
15	1279.48	1262.08	1244.68	1228.44	1209.88	1182.04	1155.36	1132.16	1110.12	1088.08
20	1242.36	1219.16	1198.28	1173.92	1135.64	1100.84	1066.04	1032.40	1001.08	972.08
25	1191.32	1163.48	1136.80	1095.04	1053.28	1010.36	967.44	928.00	882.76	841.00
30	1131.00	1099.68	1063.72	1010.36	958.16	908.28	857.24	803.88	751.68	701.80
35	1053.28	1018.48	969.76	910.60	851.44	792.28	733.12	670.48	610.16	549.84
40	483.72	475.60	477.92	504.60	555.64	611.32	574.20	512.72	458.20	397.88
45	141.52	158.92	191.40	214.60	221.56	228.52	307.40	329.44	309.72	291.16
50	127.60	132.24	139.20	147.32	157.76	171.68	185.60	201.84	207.64	208.80
55	119.48	121.80	125.28	129.92	134.56	142.68	149.64	150.80	153.12	154.28
60	111.36	110.20	109.04	107.88	107.88	109.04	111.36	112.52	113.68	114.84
65	89.32	88.16	83.52	80.04	77.72	76.56	77.72	77.72	80.04	82.36
70	52.20	52.20	51.04	49.88	49.88	48.72	49.88	49.88	51.04	52.20
75	25.52	25.52	26.68	26.68	26.68	26.68	26.68	26.68	29.00	30.16
80	15.08	15.08	13.92	13.92	13.92	13.92	12.76	12.76	12.76	13.92
85	5.80	6.96	6.96	5.80	5.80	5.80	5.80	5.80	5.80	5.80
90	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16
95	44.08	48.72	46.40	47.56	47.56	48.72	49.88	52.20	55.68	53.36
100	161.24	145.00	149.64	150.80	149.64	149.64	149.64	147.32	145.00	141.52
105	283.04	263.32	265.64	266.80	265.64	264.48	262.16	259.84	255.20	244.76
110	417.60	409.48	389.76	388.60	390.92	393.24	388.60	377.00	368.88	353.80
115	551.00	551.00	535.92	523.16	517.36	516.20	512.72	503.44	490.68	469.80
120	682.08	680.92	678.60	668.16	657.72	647.28	639.16	629.88	607.84	576.52
125	802.72	801.56	799.24	795.76	789.96	776.04	765.60	740.08	713.40	676.28
130	907.12	905.96	901.32	895.52	887.40	874.64	856.08	830.56	794.60	747.04
135	990.64	988.32	982.52	974.40	963.96	950.04	924.52	897.84	852.60	806.20
140	1049.80	1047.48	1040.52	1030.08	1016.16	999.92	969.76	934.96	893.20	837.52
145	1083.44	1078.80	1070.68	1057.92	1040.52	1018.48	991.80	950.04	905.96	853.76
150	1079.96	1075.32	1066.04	1050.96	1031.24	1005.72	977.88	939.60	896.68	849.12
155	1034.72	1030.08	1023.12	1008.04	988.32	963.96	936.12	905.96	867.68	829.40
160	958.16	955.84	947.72	936.12	919.88	901.32	879.28	852.60	824.76	799.24
165	865.36	863.04	857.24	850.28	842.16	829.40	814.32	799.24	783.00	763.28
170	780.68	779.52	777.20	773.72	770.24	765.60	759.80	752.84	744.72	736.60
175	726.16	726.16	725.00	725.00	723.84	722.68	721.52	720.36	719.20	718.04
180	708.76	708.76	708.76	708.76	708.76	708.76	708.76	708.76	708.76	708.76

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	1321.24	1321.24	1321.24	1321.24	1321.24	1321.24	1321.24	1321.24	1321.24
5	1265.56	1262.08	1258.60	1256.28	1253.96	1251.64	1250.48	1250.48	1250.48
10	1176.24	1165.80	1155.36	1144.92	1136.80	1129.84	1125.20	1120.56	1120.56
15	1067.20	1047.48	1030.08	1016.16	1004.56	994.12	986.00	980.20	979.04
20	943.08	915.24	892.04	870.00	851.44	836.36	824.76	816.64	814.32
25	803.88	769.08	737.76	711.08	687.88	669.32	655.40	642.64	639.16
30	655.40	611.32	567.24	530.12	499.96	476.76	461.68	443.12	436.16
35	490.68	435.00	404.84	383.96	367.72	354.96	345.68	338.72	336.40
40	361.92	330.60	314.36	303.92	294.64	286.52	281.88	278.40	278.40
45	276.08	263.32	254.04	247.08	241.28	235.48	232.00	229.68	229.68
50	212.28	207.64	201.84	198.36	194.88	190.24	187.92	185.60	184.44
55	157.76	156.60	156.60	155.44	153.12	151.96	149.64	149.64	148.48
60	116.00	117.16	118.32	118.32	118.32	118.32	117.16	117.16	117.16

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CANDELA TABULATION - (Cont.)

65	83.52	87.00	87.00	87.00	87.00	89.32	92.80	91.64	91.64
70	54.52	55.68	58.00	59.16	59.16	60.32	61.48	60.32	60.32
75	31.32	32.48	33.64	34.80	35.96	35.96	37.12	35.96	35.96
80	15.08	15.08	16.24	16.24	17.40	17.40	17.40	17.40	17.40
85	5.80	5.80	5.80	5.80	5.80	4.64	5.80	4.64	4.64
90	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16
95	49.88	45.24	39.44	35.96	32.48	30.16	27.84	27.84	27.84
100	133.40	119.48	107.88	98.60	92.80	89.32	87.00	85.84	87.00
105	227.36	206.48	183.28	164.72	150.80	145.00	143.84	141.52	139.20
110	330.60	300.44	266.80	240.12	221.56	211.12	206.48	205.32	204.16
115	431.52	388.60	349.16	314.36	290.00	276.08	269.12	265.64	264.48
120	535.92	482.56	428.04	382.80	353.80	337.56	328.28	323.64	322.48
125	620.60	559.12	498.80	445.44	412.96	393.24	382.80	377.00	375.84
130	691.36	624.08	562.60	509.24	469.80	445.44	430.36	423.40	422.24
135	741.24	676.28	613.64	561.44	519.68	491.84	476.76	467.48	465.16
140	779.52	714.56	655.40	603.20	564.92	534.76	518.52	509.24	504.60
145	795.76	740.08	686.72	639.16	603.20	576.52	557.96	548.68	544.04
150	800.40	751.68	705.28	667.00	633.36	612.48	592.76	585.80	581.16
155	788.80	751.68	716.88	683.24	661.20	641.48	626.40	619.44	614.80
160	771.40	743.56	716.88	698.32	680.92	663.52	656.56	650.76	644.96
165	745.88	731.96	718.04	705.28	690.20	685.56	679.76	675.12	671.64
170	728.48	719.20	711.08	707.60	702.96	699.48	697.16	693.68	690.20
175	715.72	714.56	713.40	711.08	709.92	707.60	706.44	705.28	702.96
180	708.76	708.76	708.76	708.76	708.76	708.76	708.76	708.76	708.76

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	428.82	N.A.	9.20
0-30	827.16	N.A.	17.70
0-40	1194.22	N.A.	25.50
0-60	1533.79	N.A.	32.70
0-80	1651.68	N.A.	35.20
0-90	1659.24	N.A.	35.40
10-90	1539.77	N.A.	32.90
20-40	765.40	N.A.	16.30
20-50	973.46	N.A.	20.80
40-70	422.96	N.A.	9.00
60-80	117.89	N.A.	2.50
70-80	34.50	N.A.	0.70
80-90	7.56	N.A.	0.20
90-110	290.52	N.A.	6.20
90-120	709.12	N.A.	15.10
90-130	1259.33	N.A.	26.90
90-150	2358.69	N.A.	50.30
90-180	3027.03	N.A.	64.60
110-180	2736.51	N.A.	58.40
0-180	4686.27	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	119.47
10-20	309.35
20-30	398.34
30-40	367.06
40-50	208.06
50-60	131.51
60-70	83.39
70-80	34.50
80-90	7.56
90-100	58.02
100-110	232.50
110-120	418.61
120-130	550.21
130-140	581.81
140-150	517.55
150-160	381.02
160-170	218.30
170-180	69.02

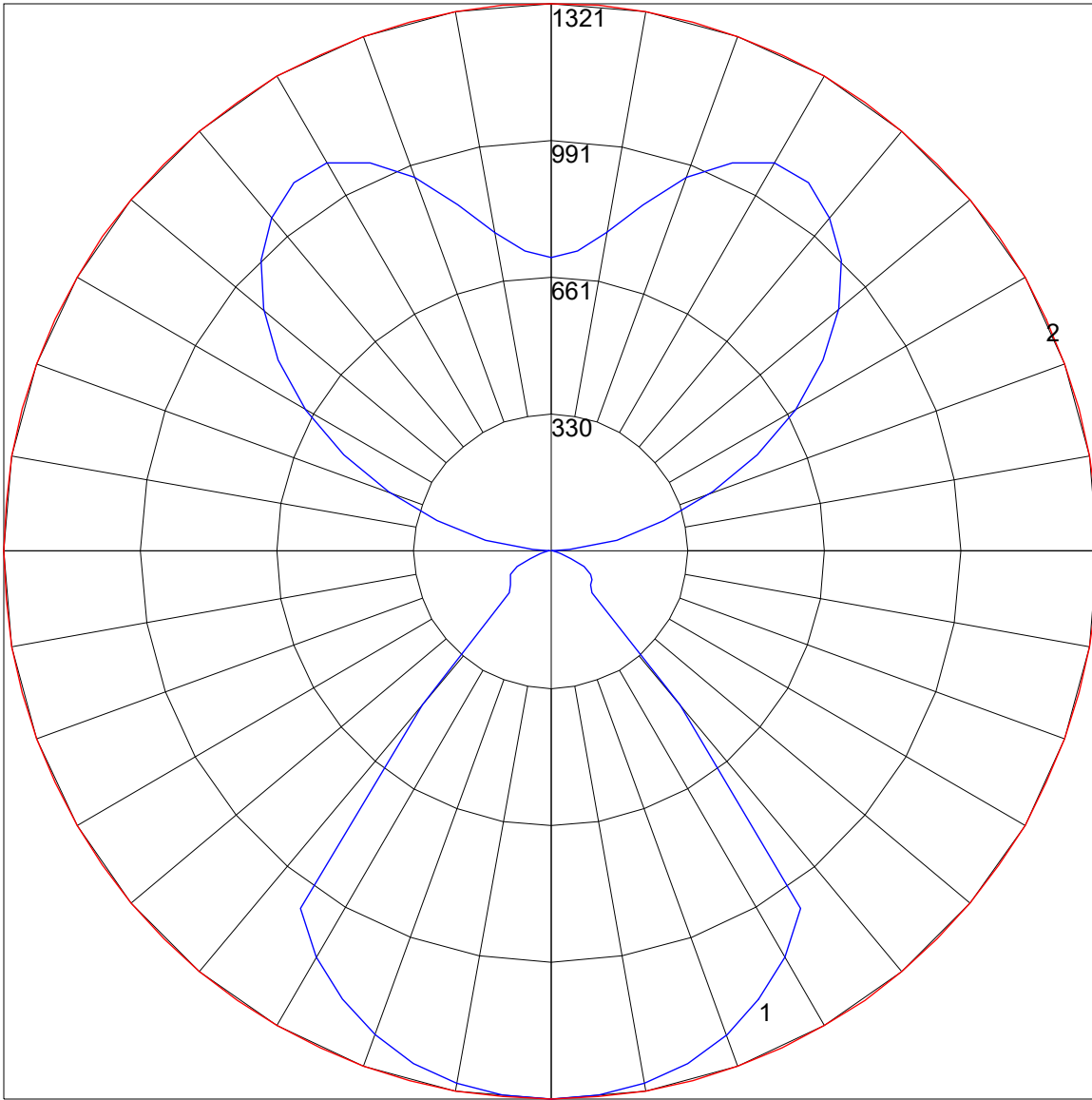
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 1321.24 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.)