

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-BL-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	81	83	85	86
Total Lumens, 4' rail length (1219mm)	3850	3971	4052	4133
Lumens per foot (305mm)	962	993	1013	1033
Lumens per foot UP (305mm)	698	720	735	750
Lumens per foot DOWN (305mm)	265	273	278	284
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_BL.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L011800107 (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-BL
 [LUMINAIRE] DoubleBox LED, 48", 3500K, 80 CRI, zipper board,
 [MORE] 120° batwing lens up with white polycarbonate reflectors/40° black 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	4052
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	84
Total Luminaire Watts	48.14
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	532	1818	19669
55	228	681	10420
65	118	290	4983
75	59	139	2514
85	15	21	1160

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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	1182.04	1182.04	1182.04	1182.04	1182.04	1182.04	1182.04	1182.04	1182.04	1182.04
5	1131.00	1129.84	1129.84	1131.00	1131.00	1132.16	1134.48	1136.80	1139.12	1141.44
10	981.36	981.36	983.68	989.48	996.44	1005.72	1016.16	1028.92	1042.84	1057.92
15	773.72	773.72	780.68	792.28	807.36	827.08	851.44	879.28	910.60	941.92
20	533.60	533.60	544.04	561.44	586.96	619.44	656.56	692.52	731.96	772.56
25	331.76	336.40	350.32	370.04	397.88	425.72	455.88	493.00	537.08	588.12
30	194.88	197.20	206.48	227.36	248.24	269.12	292.32	325.96	370.04	414.12
35	111.36	112.52	119.48	132.24	146.16	160.08	176.32	206.48	235.48	274.92
40	61.48	63.80	68.44	75.40	83.52	91.64	106.72	125.28	147.32	177.48
45	38.28	39.44	41.76	45.24	48.72	53.36	64.96	75.40	90.48	104.40
50	25.52	25.52	26.68	29.00	30.16	34.80	40.60	46.40	54.52	66.12
55	17.40	17.40	18.56	19.72	20.88	23.20	25.52	29.00	34.80	40.60
60	12.76	12.76	12.76	13.92	15.08	16.24	17.40	19.72	23.20	26.68
65	9.28	9.28	9.28	10.44	10.44	11.60	12.76	13.92	15.08	17.40
70	6.96	6.96	6.96	8.12	8.12	8.12	9.28	9.28	10.44	11.60
75	4.64	4.64	4.64	5.80	5.80	5.80	5.80	6.96	6.96	8.12
80	1.16	2.32	2.32	2.32	2.32	2.32	3.48	3.48	3.48	4.64
85	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16
90	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16
95	44.08	46.40	46.40	47.56	48.72	51.04	54.52	54.52	53.36	52.20
100	157.76	146.16	148.48	148.48	148.48	147.32	147.32	148.48	142.68	136.88
105	277.24	258.68	259.84	262.16	261.00	261.00	258.68	254.04	249.40	238.96
110	407.16	400.20	382.80	381.64	383.96	382.80	380.48	373.52	360.76	342.20
115	539.40	538.24	525.48	511.56	506.92	503.44	501.12	491.84	480.24	458.20
120	668.16	667.00	664.68	657.72	647.28	638.00	629.88	619.44	597.40	564.92
125	792.28	789.96	787.64	784.16	778.36	765.60	755.16	728.48	700.64	661.20
130	893.20	892.04	887.40	881.60	873.48	861.88	843.32	815.48	778.36	729.64
135	974.40	972.08	967.44	958.16	946.56	932.64	908.28	881.60	835.20	787.64
140	1031.24	1027.76	1020.80	1010.36	997.60	980.20	951.20	915.24	872.32	816.64
145	1060.24	1056.76	1048.64	1037.04	1018.48	996.44	969.76	926.84	881.60	829.40
150	1055.60	1050.96	1041.68	1026.60	1006.88	981.36	952.36	914.08	870.00	821.28
155	1005.72	1002.24	994.12	979.04	960.48	936.12	907.12	876.96	838.68	798.08
160	925.68	923.36	915.24	904.80	887.40	868.84	846.80	820.12	792.28	765.60
165	828.24	825.92	821.28	814.32	805.04	792.28	778.36	763.28	747.04	727.32
170	740.08	738.92	736.60	734.28	730.80	726.16	720.36	713.40	706.44	698.32
175	685.56	684.40	684.40	683.24	682.08	682.08	680.92	679.76	678.60	677.44
180	667.00	667.00	667.00	667.00	667.00	667.00	667.00	667.00	667.00	667.00

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	1182.04	1182.04	1182.04	1182.04	1182.04	1182.04	1182.04	1182.04	1182.04
5	1143.76	1147.24	1150.72	1155.36	1158.84	1163.48	1168.12	1171.60	1176.24
10	1075.32	1092.72	1112.44	1119.40	1126.36	1134.48	1142.60	1151.88	1161.16
15	968.60	991.80	1017.32	1045.16	1076.48	1086.92	1098.52	1110.12	1124.04
20	814.32	859.56	907.12	940.76	979.04	1019.64	1033.56	1048.64	1067.20
25	643.80	699.48	757.48	820.12	866.52	912.92	948.88	966.28	986.00
30	469.80	537.08	603.20	670.48	738.92	788.80	842.16	860.72	883.92
35	327.12	385.12	448.92	512.72	583.48	644.96	699.48	726.16	748.20
40	209.96	261.00	310.88	365.40	428.04	489.52	539.40	571.88	591.60
45	131.08	161.24	200.68	248.24	296.96	349.16	385.12	404.84	411.80
50	80.04	99.76	126.44	157.76	191.40	228.52	258.68	280.72	294.64
55	49.88	61.48	76.56	96.28	118.32	141.52	162.40	176.32	180.96
60	31.32	38.28	47.56	59.16	73.08	88.16	100.92	105.56	110.20

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CANDELA TABULATION - (Cont.)

65	20.88	24.36	30.16	37.12	44.08	52.20	59.16	63.80	66.12
70	13.92	16.24	18.56	23.20	26.68	32.48	35.96	38.28	40.60
75	9.28	10.44	11.60	13.92	16.24	18.56	20.88	22.04	22.04
80	4.64	5.80	6.96	6.96	8.12	9.28	10.44	11.60	11.60
85	1.16	2.32	2.32	2.32	2.32	3.48	3.48	3.48	4.64
90	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16
95	51.04	45.24	38.28	33.64	29.00	27.84	25.52	26.68	26.68
100	129.92	117.16	103.24	95.12	89.32	87.00	84.68	84.68	84.68
105	220.40	199.52	177.48	157.76	146.16	138.04	135.72	134.56	133.40
110	321.32	292.32	259.84	230.84	213.44	203.00	197.20	194.88	194.88
115	423.40	382.80	341.04	303.92	279.56	264.48	256.36	252.88	254.04
120	522.00	468.64	416.44	371.20	342.20	324.80	314.36	309.72	308.56
125	603.20	541.72	483.72	430.36	399.04	378.16	365.40	359.60	358.44
130	673.96	606.68	544.04	490.68	450.08	423.40	406.00	396.72	394.40
135	721.52	656.56	592.76	539.40	497.64	470.96	454.72	445.44	441.96
140	756.32	691.36	632.20	578.84	540.56	510.40	494.16	483.72	480.24
145	770.24	714.56	660.04	613.64	576.52	548.68	530.12	520.84	516.20
150	771.40	722.68	676.28	638.00	603.20	582.32	562.60	556.80	552.16
155	757.48	720.36	685.56	651.92	628.72	609.00	593.92	586.96	582.32
160	738.92	709.92	683.24	664.68	646.12	628.72	621.76	615.96	610.16
165	709.92	696.00	682.08	668.16	654.24	648.44	643.80	639.16	635.68
170	690.20	680.92	671.64	669.32	665.84	662.36	658.88	655.40	653.08
175	675.12	673.96	672.80	671.64	669.32	668.16	667.00	664.68	663.52
180	667.00	667.00	667.00	667.00	667.00	667.00	667.00	667.00	667.00

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	367.56	N.A.	9.10
0-30	654.58	N.A.	16.20
0-40	876.43	N.A.	21.60
0-60	1071.08	N.A.	26.40
0-80	1110.46	N.A.	27.40
0-90	1113.28	N.A.	27.50
10-90	1006.46	N.A.	24.80
20-40	508.87	N.A.	12.60
20-50	640.12	N.A.	15.80
40-70	222.51	N.A.	5.50
60-80	39.39	N.A.	1.00
70-80	11.52	N.A.	0.30
80-90	2.82	N.A.	0.10
90-110	283.86	N.A.	7.00
90-120	692.05	N.A.	17.10
90-130	1229.45	N.A.	30.30
90-150	2298.58	N.A.	56.70
90-180	2938.95	N.A.	72.50
110-180	2655.1	N.A.	65.50
0-180	4052.23	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	106.82
10-20	260.74
20-30	287.02
30-40	221.85
40-50	131.25
50-60	63.40
60-70	27.87
70-80	11.52
80-90	2.82
90-100	57.19
100-110	226.67
110-120	408.19
120-130	537.40
130-140	566.93
140-150	502.20
150-160	367.07
160-170	208.10
170-180	65.20

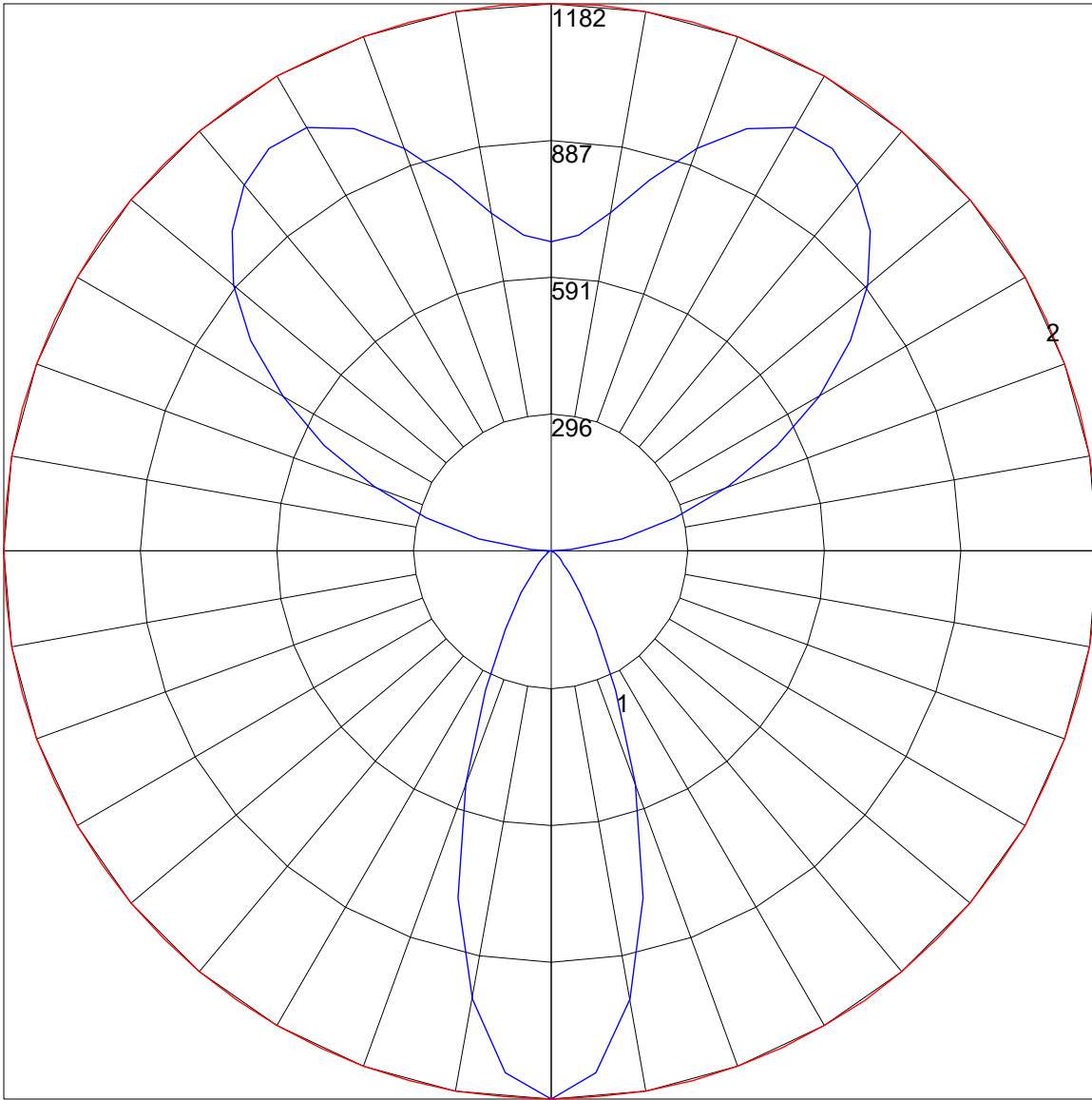
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	91	91	91	91	71	71	71	52	52	52	35	35	35	27
1	94	90	87	84	84	81	78	75	63	62	60	47	46	45	33	32	32	25
2	86	80	75	70	77	72	67	64	57	54	51	43	41	40	30	29	29	23
3	79	71	65	60	71	64	59	55	51	48	45	39	37	35	28	27	26	21
4	73	64	57	52	66	58	52	47	46	42	39	36	33	31	26	24	23	19
5	68	57	50	45	61	52	46	41	42	38	35	33	30	28	24	22	21	18
6	63	52	45	40	56	47	41	37	38	34	31	30	27	25	22	21	19	16
7	58	47	40	35	52	43	37	33	35	31	28	28	25	23	21	19	18	15
8	54	43	36	32	49	40	34	29	32	28	25	26	23	21	19	18	16	14
9	51	40	33	28	46	36	31	27	30	26	23	24	21	19	18	17	15	13
10	48	37	30	26	43	34	28	24	28	24	21	22	19	17	17	15	14	12

POLAR GRAPH



Maximum Candela = 1182.04 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.)