

## IES Report

# DoubleBox™ | 107 | Wide Batwing, up | 40° Symmetric, down | 90 CRI | LO

107-DB-XX-4-48-XX-XX-XX-XX-X-X-Z-LO-359-G1S1-X-AL / WH-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	67	69	70	71
Total Lumens, 4' rail length (1219mm)	1825	1883	1921	1940
Lumens per foot (305mm)	456	471	480	485
Lumens per foot UP (305mm)	320	330	337	340
Lumens per foot DOWN (305mm)	136	140	143	145
Input Power (W), 4' rail length (1219mm)	27.6	27.6	27.6	27.6
Watts per foot (305mm)	6.9	6.9	6.9	6.9
CRI	94	94	94	94

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\_LO\_359\_G1S1.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L022010902 / L121911509 (SOURCE REPORTS FOR REFERENCE)

[TESTLAB] REPORT BASED ON DATA FROM NVLAP ACCREDITED LAB

[ISSUE DATE] 3/18/2020

[MANUFAC] Vode Lighting

[LUMCAT] 107-DB-48-Z-LO-359-G1S1-AL

[LUMINAIRE] DoubleBox LED, 48", 3500K, 90 CRI, zipper board, wide batwing lens up /

[MORE] 40° symmetric lens down, low output, clear anodized finish

[TEST PROCEDURE] IESNA:LM-79-08

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1921
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	70
Total Luminaire Watts	27.64
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)	0.07 ft
Luminous Width (90-270)	3.84 ft
Luminous Height	0.21 ft

### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	764	1608	9267
55	439	856	6388
65	267	474	4435
75	143	234	2959
85	4	29	1291

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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>
<b>0.0</b>	461.970	461.970	461.970	461.970	461.970	461.970	461.970	461.970	461.970	461.970
<b>1.0</b>	449.425	451.835	452.715	456.590	459.230	460.760	459.315	460.445	461.345	462.310
<b>3.0</b>	443.850	444.730	444.895	452.630	457.135	458.915	457.740	458.685	459.880	460.905
<b>5.0</b>	432.700	431.445	437.940	443.095	449.800	451.520	451.205	452.880	454.705	455.900
<b>7.0</b>	417.320	414.110	421.050	428.825	435.760	438.525	440.620	442.760	445.170	447.325
<b>9.0</b>	398.875	394.435	402.400	413.670	421.905	424.885	427.610	430.605	434.125	437.585
<b>11.0</b>	376.495	370.250	379.470	391.520	399.505	405.145	408.895	412.980	417.570	422.180
<b>13.0</b>	349.880	341.730	347.055	360.970	374.255	382.320	386.975	392.800	398.290	404.620
<b>15.0</b>	331.480	323.185	339.215	353.865	358.220	363.840	369.960	376.850	384.290	391.940
<b>17.0</b>	299.170	299.335	306.735	324.820	330.705	337.265	344.120	352.060	361.115	370.400
<b>19.5</b>	263.000	259.540	270.375	286.030	294.935	302.060	310.295	319.725	330.100	341.185
<b>22.5</b>	221.675	221.420	229.530	244.305	251.620	259.625	268.950	279.260	291.330	304.385
<b>25.5</b>	182.905	184.560	189.945	202.475	211.320	219.470	229.050	240.345	253.085	267.170
<b>29.0</b>	146.985	142.940	151.095	162.535	169.305	177.015	186.320	197.470	210.480	224.835
<b>33.0</b>	110.730	108.450	113.560	124.060	130.135	136.970	145.160	155.240	167.440	180.870
<b>37.5</b>	82.355	82.150	85.750	92.185	96.710	102.100	108.785	117.165	127.475	139.125
<b>42.5</b>	60.980	59.515	62.890	67.375	70.850	74.790	79.695	86.045	93.780	102.955
<b>47.5</b>	46.985	46.000	48.285	51.365	53.645	56.330	59.810	64.335	70.015	76.720
<b>55.0</b>	33.280	32.735	33.865	35.355	36.485	38.100	40.070	42.665	45.980	50.150
<b>65.0</b>	20.955	21.000	21.250	21.775	22.360	22.990	23.870	24.980	26.425	28.230
<b>75.0</b>	11.315	11.210	11.380	11.545	11.715	11.945	12.240	12.595	13.120	13.745
<b>85.0</b>	0.295	0.315	0.315	0.375	0.440	0.545	0.715	0.900	1.155	1.615
<b>90.0</b>	2.440	2.440	2.440	2.440	2.440	2.440	2.440	2.440	2.440	2.440
<b>95.0</b>	11.360	13.975	13.185	13.485	13.940	14.705	15.085	18.115	19.845	21.180
<b>100.0</b>	43.880	46.055	47.140	49.385	52.275	55.355	58.905	61.905	65.915	66.265
<b>105.0</b>	105.325	98.105	104.990	107.740	110.880	116.010	119.900	123.180	126.285	125.490
<b>110.0</b>	196.360	189.900	190.550	194.700	201.410	201.770	208.755	203.610	198.460	186.135
<b>115.0</b>	314.090	312.800	301.720	296.015	293.335	291.705	283.705	272.480	258.235	240.600
<b>120.0</b>	399.715	397.215	391.710	381.355	371.845	358.540	344.415	328.385	303.710	277.875
<b>125.0</b>	455.415	452.505	445.750	437.215	426.545	406.415	388.250	361.930	335.550	305.845
<b>130.0</b>	479.225	476.655	469.290	458.145	444.570	426.500	403.545	378.640	350.155	320.870
<b>135.0</b>	478.970	476.805	469.920	459.085	444.100	426.735	404.785	382.030	355.725	329.455
<b>140.0</b>	463.465	461.255	455.010	445.300	432.395	416.355	397.405	376.775	354.715	332.045
<b>145.0</b>	438.985	437.015	432.025	424.310	413.375	400.065	384.545	366.920	348.635	329.980
<b>150.0</b>	410.485	408.705	405.055	398.765	390.375	379.775	367.315	353.800	340.000	324.995
<b>155.0</b>	380.895	379.600	377.185	372.375	366.305	358.540	349.405	339.595	329.405	319.095
<b>160.0</b>	353.065	352.380	350.400	347.685	343.365	338.440	332.780	325.975	318.835	312.440
<b>165.0</b>	329.220	328.715	327.465	325.990	323.990	321.005	317.690	314.065	310.160	305.640
<b>170.0</b>	311.405	311.130	310.525	309.850	309.015	308.035	306.910	305.130	303.285	301.360
<b>175.0</b>	300.720	300.590	300.485	300.170	299.935	299.680	299.405	299.110	298.800	298.475
<b>180.0</b>	297.000	297.000	297.000	297.000	297.000	297.000	297.000	297.000	297.000	297.000

**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>0.0</b>	461.970	461.970	461.970	461.970	461.970	461.970	461.970	461.970	461.970
<b>1.0</b>	462.875	463.380	465.055	465.410	466.335	466.500	466.730	466.440	466.565
<b>3.0</b>	461.600	462.310	463.505	463.755	466.630	465.980	466.165	466.250	466.355
<b>5.0</b>	457.175	458.665	459.900	461.030	462.690	463.360	463.945	465.265	464.220
<b>7.0</b>	449.610	451.810	453.990	455.670	458.620	459.860	460.885	461.390	462.080
<b>9.0</b>	441.105	444.245	446.970	449.865	452.420	454.410	456.400	457.765	459.775
<b>11.0</b>	426.915	431.505	435.885	440.180	443.180	446.195	449.235	451.540	453.530
<b>13.0</b>	410.820	416.880	422.660	428.675	433.015	436.850	441.355	443.260	445.820
<b>15.0</b>	400.175	407.405	414.780	421.070	426.790	431.400	434.500	436.220	437.100

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**CANDELA TABULATION - (Cont.)**

<b>17.0</b>	379.995	389.005	397.785	406.380	413.360	418.155	422.705	425.680	426.705
<b>19.5</b>	352.775	363.630	374.525	385.485	394.330	401.515	406.335	409.775	411.240
<b>22.5</b>	318.050	331.125	344.540	357.675	368.345	377.565	384.145	387.980	389.575
<b>25.5</b>	282.280	296.885	312.140	326.935	339.885	350.760	357.865	363.000	364.800
<b>29.0</b>	240.680	256.565	273.310	289.195	303.485	316.100	324.085	330.290	332.405
<b>33.0</b>	196.590	212.115	229.005	245.960	261.215	272.070	282.905	289.695	292.255
<b>37.5</b>	152.915	167.080	182.550	198.620	213.520	226.575	236.740	243.215	244.975
<b>42.5</b>	113.475	125.590	138.520	152.600	165.970	177.750	186.905	192.375	194.680
<b>47.5</b>	84.535	94.115	104.340	115.490	126.345	136.405	143.990	148.765	150.800
<b>55.0</b>	54.715	60.395	66.975	74.040	81.165	87.975	93.715	97.280	98.745
<b>65.0</b>	30.470	33.110	36.190	39.690	43.295	46.775	49.710	51.700	52.350
<b>75.0</b>	14.565	15.570	16.725	18.085	19.445	20.850	22.025	22.760	23.050
<b>85.0</b>	2.285	3.040	3.665	3.940	4.130	4.315	4.485	4.550	4.570
<b>90.0</b>	2.440	2.440	2.440	2.440	2.440	2.440	2.440	2.440	2.440
<b>95.0</b>	21.495	26.595	25.975	20.845	19.390	19.520	19.135	18.425	18.820
<b>100.0</b>	66.160	65.885	61.020	54.355	49.815	45.795	42.195	40.820	40.990
<b>105.0</b>	122.045	112.555	101.560	88.595	78.890	71.685	66.515	63.895	63.495
<b>110.0</b>	169.025	153.670	136.890	119.665	106.715	98.010	91.720	88.540	88.395
<b>115.0</b>	217.335	191.615	168.530	148.705	133.620	123.295	116.180	112.385	112.075
<b>120.0</b>	250.220	220.910	195.520	175.165	158.815	147.655	140.840	136.445	134.665
<b>125.0</b>	274.320	245.225	219.455	198.130	181.050	169.330	162.285	158.025	155.915
<b>130.0</b>	291.730	264.505	240.150	219.175	202.210	189.475	180.895	175.455	171.380
<b>135.0</b>	302.965	278.425	255.835	237.070	221.485	209.655	201.840	196.980	194.975
<b>140.0</b>	309.200	288.360	268.810	251.450	237.875	226.720	219.270	214.730	212.620
<b>145.0</b>	311.655	294.340	278.185	263.680	251.815	242.485	235.490	231.830	229.720
<b>150.0</b>	310.905	297.345	284.210	273.395	263.225	256.400	250.140	247.560	245.815
<b>155.0</b>	308.540	298.440	289.195	280.190	273.705	267.970	263.690	261.465	259.855
<b>160.0</b>	305.685	298.545	291.645	286.710	281.950	277.370	275.365	273.665	272.385
<b>165.0</b>	301.445	298.005	294.560	291.140	287.765	286.230	284.950	283.785	282.865
<b>170.0</b>	299.375	297.350	295.345	294.385	293.505	292.685	291.930	291.220	290.620
<b>175.0</b>	298.140	297.795	297.440	297.085	296.730	296.375	296.015	295.680	295.355
<b>180.0</b>	297.000	297.000	297.000	297.000	297.000	297.000	297.000	297.000	297.000

**IES INDOOR REPORT**  
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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	144.03	N.A.	7.50
0-30	265.38	N.A.	13.80
0-40	362.32	N.A.	18.90
0-60	495.43	N.A.	25.80
0-80	562.57	N.A.	29.30
0-90	573.30	N.A.	29.80
10-90	538.63	N.A.	28.00
20-40	218.29	N.A.	11.40
20-50	304.80	N.A.	15.90
40-70	175.74	N.A.	9.10
60-80	67.14	N.A.	3.50
70-80	24.51	N.A.	1.30
80-90	10.73	N.A.	0.60
90-110	135.19	N.A.	7.00
90-120	350.82	N.A.	18.30
90-130	619.75	N.A.	32.30
90-150	1084.21	N.A.	56.40
90-180	1347.9	N.A.	70.20
110-180	1212.7	N.A.	63.10
0-180	1921.2	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	34.67
10-20	109.37
20-30	121.35
30-40	96.94
40-50	86.51
50-60	46.60
60-70	42.63
70-80	24.51
80-90	10.73
90-100	25.34
100-110	109.86
110-120	215.62
120-130	268.93
130-140	256.14
140-150	208.32
150-160	148.12
160-170	87.00
170-180	28.56

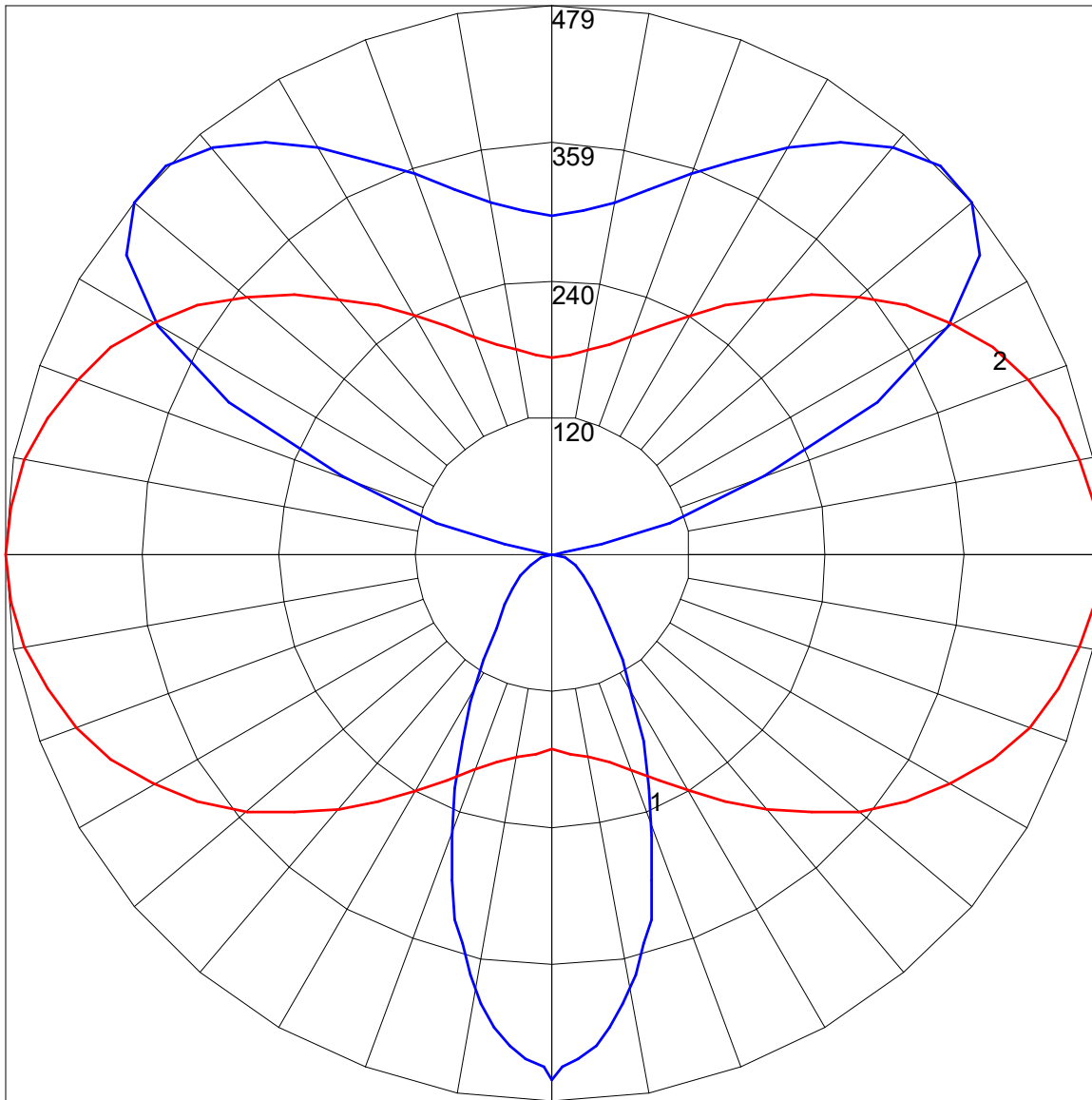
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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
1	94	90	86	83	84	81	78	75	64	62	60	48	47	46	34	33	33	26
2	86	79	73	69	77	71	66	62	57	53	51	43	41	39	31	29	28	23
3	79	70	63	58	70	63	58	53	50	47	43	39	36	34	28	26	25	20
4	72	62	55	50	65	56	50	45	45	41	37	35	32	30	25	24	22	18
5	67	56	48	43	60	51	44	40	41	36	33	32	29	26	23	21	20	16
6	62	50	43	38	55	46	39	35	37	32	29	29	26	23	21	19	18	15
7	57	46	38	33	51	42	35	31	34	29	26	27	23	21	20	18	16	13
8	53	42	34	30	48	38	32	27	31	26	23	25	21	19	18	16	15	12
9	49	38	31	26	45	35	29	25	29	24	21	23	20	17	17	15	14	11
10	46	35	28	24	42	32	26	22	26	22	19	21	18	16	16	14	13	11

POLAR GRAPH



Maximum Candela = 479.225 Located At Horizontal Angle = 0, Vertical Angle = 130  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)  
# 2 - Horizontal Cone Through Vertical Angle (130) (Through Max. Cd.)