

IES Report

DoubleBox™ | 107 | Wide Batwing, up | 60° Symmetric, down | 90 CRI | LO

107-DB-XX-4-48-XX-XX-XX-XX-X-X-Z-LO-359-G1S2-X-AL / WH-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	74	76	77	78
Total Lumens, 4' rail length (1219mm)	2015	2079	2121	2142
Lumens per foot (305mm)	504	520	530	536
Lumens per foot UP (305mm)	320	330	337	340
Lumens per foot DOWN (305mm)	184	189	193	195
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_G1S2.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L022010902 / L121911510 (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-G1S2-AL

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

[MORE] 60° 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	2121
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	77
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	1139	2256	12419
55	614	1170	8766
65	363	639	6058
75	196	316	4044
85	0	54	1836

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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	562.000	562.000	562.000	562.000	562.000	562.000	562.000	562.000	562.000	562.000
5	552.500	552.000	552.000	552.000	552.000	552.000	551.500	553.500	555.000	556.000
10	524.000	521.500	522.000	522.000	522.500	522.500	523.500	528.000	532.000	535.000
15	471.000	466.000	467.000	468.500	470.500	471.500	475.000	484.000	492.500	498.500
20	395.000	388.500	391.000	393.500	396.000	399.000	405.000	418.000	432.500	445.500
25	308.000	300.000	303.500	307.000	312.000	317.000	326.500	343.000	362.000	377.500
30	225.500	218.500	222.000	226.000	232.500	238.000	247.000	264.500	285.500	303.500
35	159.000	153.500	156.500	160.500	164.000	169.500	178.500	194.500	214.000	233.500
40	112.000	108.500	110.500	113.500	118.000	122.000	128.500	140.500	156.500	172.500
45	80.500	78.000	80.000	82.000	84.500	87.500	92.500	102.000	113.500	126.000
50	60.000	58.500	59.500	61.000	63.000	65.000	68.500	74.500	83.000	92.000
55	46.500	45.500	46.000	47.000	48.500	49.500	52.000	56.500	61.500	68.500
60	36.500	36.000	36.500	37.000	38.000	39.000	40.500	43.000	46.500	51.000
65	28.500	28.000	28.500	29.000	29.500	30.000	31.000	32.500	35.000	38.000
70	21.500	21.500	21.500	22.000	22.000	22.500	23.000	24.500	25.500	27.500
75	15.500	15.000	15.500	15.500	15.500	16.000	16.000	16.500	17.500	18.500
80	9.500	9.500	9.500	9.500	9.500	9.500	9.500	10.000	10.500	11.000
85	0.000	0.000	0.000	0.500	0.500	0.500	1.000	1.000	2.000	3.000
90	2.440	2.440	2.440	2.440	2.440	2.440	2.440	2.440	2.440	2.440
95	11.360	13.975	13.185	13.485	13.940	14.705	15.085	18.115	19.845	21.180
100	43.880	46.055	47.140	49.385	52.275	55.355	58.905	61.905	65.915	66.265
105	105.325	98.105	104.990	107.740	110.880	116.010	119.900	123.180	126.285	125.490
110	196.360	189.900	190.550	194.700	201.410	201.770	208.755	203.610	198.460	186.135
115	314.090	312.800	301.720	296.015	293.335	291.705	283.705	272.480	258.235	240.600
120	399.715	397.215	391.710	381.355	371.845	358.540	344.415	328.385	303.710	277.875
125	455.415	452.505	445.750	437.215	426.545	406.415	388.250	361.930	335.550	305.845
130	479.225	476.655	469.290	458.145	444.570	426.500	403.545	378.640	350.155	320.870
135	478.970	476.805	469.920	459.085	444.100	426.735	404.785	382.030	355.725	329.455
140	463.465	461.255	455.010	445.300	432.395	416.355	397.405	376.775	354.715	332.045
145	438.985	437.015	432.025	424.310	413.375	400.065	384.545	366.920	348.635	329.980
150	410.485	408.705	405.055	398.765	390.375	379.775	367.315	353.800	340.000	324.995
155	380.895	379.600	377.185	372.375	366.305	358.540	349.405	339.595	329.405	319.095
160	353.065	352.380	350.400	347.685	343.365	338.440	332.780	325.975	318.835	312.440
165	329.220	328.715	327.465	325.990	323.990	321.005	317.690	314.065	310.160	305.640
170	311.405	311.130	310.525	309.850	309.015	308.035	306.910	305.130	303.285	301.360
175	300.720	300.590	300.485	300.170	299.935	299.680	299.405	299.110	298.800	298.475
180	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>
0	562.000	562.000	562.000	562.000	562.000	562.000	562.000	562.000	562.000
5	557.000	557.500	558.000	558.500	559.000	559.000	559.500	559.500	559.500
10	537.500	540.000	542.500	544.500	546.000	547.000	548.000	548.500	548.500
15	504.000	509.500	515.500	520.000	523.500	526.000	527.500	529.000	529.000
20	456.500	466.500	476.000	484.000	489.500	494.000	497.000	499.000	499.500
25	393.000	409.500	423.500	435.000	444.500	451.500	456.000	459.000	460.000
30	323.500	342.500	361.500	377.000	390.000	399.000	405.000	409.000	410.000
35	254.000	276.000	295.500	314.000	328.500	339.500	347.000	351.000	352.500
40	191.000	211.000	231.000	250.000	265.500	277.000	285.000	289.500	291.000
45	141.000	157.000	175.000	192.000	206.000	217.500	225.500	230.000	231.500
50	103.000	115.500	130.000	143.500	155.500	165.500	173.000	177.000	178.500
55	76.000	85.000	95.000	105.500	115.500	124.000	130.000	133.500	135.500
60	56.500	62.500	70.000	77.500	84.500	90.500	95.500	98.500	99.500

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CANDELA TABULATION - (Cont.)

65	41.500	45.500	50.500	55.500	60.500	65.000	68.500	71.000	71.500
70	29.500	32.000	35.500	38.500	42.000	45.000	47.500	49.000	49.500
75	19.500	21.000	23.000	25.000	27.000	28.500	30.000	31.000	31.500
80	11.500	12.000	13.000	14.000	15.000	15.500	16.500	17.000	17.000
85	4.000	4.500	5.000	5.500	5.500	6.000	6.000	6.500	6.500
90	2.440	2.440	2.440	2.440	2.440	2.440	2.440	2.440	2.440
95	21.495	26.595	25.975	20.845	19.390	19.520	19.135	18.425	18.820
100	66.160	65.885	61.020	54.355	49.815	45.795	42.195	40.820	40.990
105	122.045	112.555	101.560	88.595	78.890	71.685	66.515	63.895	63.495
110	169.025	153.670	136.890	119.665	106.715	98.010	91.720	88.540	88.395
115	217.335	191.615	168.530	148.705	133.620	123.295	116.180	112.385	112.075
120	250.220	220.910	195.520	175.165	158.815	147.655	140.840	136.445	134.665
125	274.320	245.225	219.455	198.130	181.050	169.330	162.285	158.025	155.915
130	291.730	264.505	240.150	219.175	202.210	189.475	180.895	175.455	171.380
135	302.965	278.425	255.835	237.070	221.485	209.655	201.840	196.980	194.975
140	309.200	288.360	268.810	251.450	237.875	226.720	219.270	214.730	212.620
145	311.655	294.340	278.185	263.680	251.815	242.485	235.490	231.830	229.720
150	310.905	297.345	284.210	273.395	263.225	256.400	250.140	247.560	245.815
155	308.540	298.440	289.195	280.190	273.705	267.970	263.690	261.465	259.855
160	305.685	298.545	291.645	286.710	281.950	277.370	275.365	273.665	272.385
165	301.445	298.005	294.560	291.140	287.765	286.230	284.950	283.785	282.865
170	299.375	297.350	295.345	294.385	293.505	292.685	291.930	291.220	290.620
175	298.140	297.795	297.440	297.085	296.730	296.375	296.015	295.680	295.355
180	297.000	297.000	297.000	297.000	297.000	297.000	297.000	297.000	297.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	191.04	N.A.	9.00
0-30	364.13	N.A.	17.20
0-40	517.43	N.A.	24.40
0-60	700.74	N.A.	33.00
0-80	767.33	N.A.	36.20
0-90	772.92	N.A.	36.40
10-90	720.57	N.A.	34.00
20-40	326.38	N.A.	15.40
20-50	437.25	N.A.	20.60
40-70	227.48	N.A.	10.70
60-80	66.59	N.A.	3.10
70-80	22.42	N.A.	1.10
80-90	5.59	N.A.	0.30
90-110	135.19	N.A.	6.40
90-120	350.82	N.A.	16.50
90-130	619.75	N.A.	29.20
90-150	1084.21	N.A.	51.10
90-180	1347.9	N.A.	63.60
110-180	1212.7	N.A.	57.20
0-180	2120.81	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	52.35
10-20	138.69
20-30	173.09
30-40	153.29
40-50	110.87
50-60	72.44
60-70	44.17
70-80	22.42
80-90	5.59
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

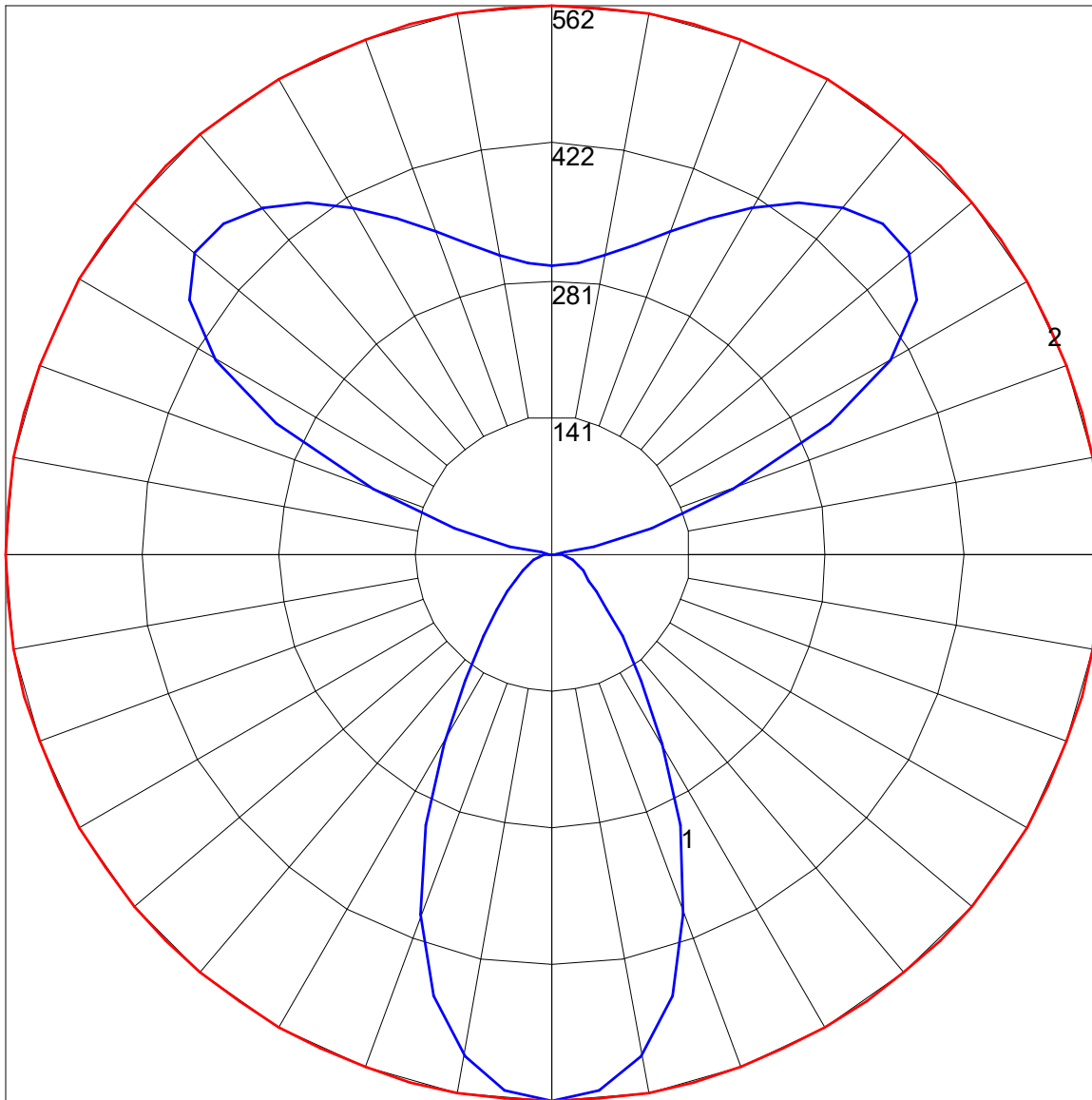
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	104	104	104	104	94	94	94	94	76	76	76	59	59	59	44	44	44	36
1	96	92	88	85	87	83	80	78	68	66	64	53	52	51	40	39	38	32
2	88	81	76	71	79	74	69	65	60	57	54	48	46	44	36	35	34	29
3	81	72	66	60	73	66	60	56	54	50	47	43	40	38	33	31	30	25
4	74	64	57	52	67	59	53	48	49	44	41	39	36	34	30	28	27	23
5	69	58	51	45	62	53	47	42	44	39	36	36	32	30	28	26	24	21
6	63	52	45	40	58	48	42	37	40	35	32	33	29	27	26	23	22	19
7	59	48	40	35	54	44	37	33	37	32	28	30	27	24	24	21	20	17
8	55	43	36	31	50	40	34	29	34	29	26	28	24	22	22	20	18	16
9	51	40	33	28	47	37	31	27	31	26	23	26	22	20	21	18	17	14
10	48	37	30	26	44	34	28	24	29	24	21	24	21	18	19	17	15	13

POLAR GRAPH



Maximum Candela = 562 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)