

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-BL-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	64	66	67	68
Total Lumens, 4' rail length (1219mm)	1740	1795	1832	1850
Lumens per foot (305mm)	435	449	458	463
Lumens per foot UP (305mm)	320	330	337	340
Lumens per foot DOWN (305mm)	115	119	121	122
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_BL.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L022010902 / L121911513 (SOURCE REPORTS FOR REFERENCE)

[TESTLAB] REPORT BASED ON DATA FROM NVLAP ACCREDITED LAB

[ISSUE DATE] 3/18/20

[MANUFAC] Vode Lighting

[LUMCAT] 107-DB-48-Z-LO-359-G1S2-BL

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

[MORE] 60° symmetric lens down, low output, black anodized finish

[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1832
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	66
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	526	1105	7477
55	186	418	4233
65	76	173	2401
75	30	68	1372
85	1	8	545

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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>
0.0	451.470	451.470	451.470	451.470	451.470	451.470	451.470	451.470	451.470	451.470
1.0	431.440	434.545	434.230	437.350	446.885	452.440	456.170	458.520	460.320	463.545
3.0	433.285	435.780	435.615	439.950	448.335	453.025	455.960	459.085	463.130	466.690
5.0	432.030	433.540	433.875	437.205	445.275	449.800	452.460	456.755	462.040	465.410
7.0	420.000	420.795	421.845	424.630	434.480	438.840	440.895	444.645	449.530	456.505
9.0	405.415	405.895	407.070	410.090	420.275	424.130	427.755	432.970	441.985	447.350
11.0	386.765	386.325	387.770	389.865	399.550	404.390	406.800	412.960	424.990	432.890
13.0	363.545	362.540	363.860	365.955	374.820	380.140	383.850	392.400	405.040	414.805
15.0	340.035	338.900	340.765	342.400	350.345	356.295	361.470	374.800	387.100	397.915
17.0	314.130	312.140	314.485	316.435	323.370	328.505	333.600	345.250	359.040	372.240
19.5	279.555	277.205	279.950	280.790	287.410	292.190	300.570	315.680	330.645	344.390
22.5	236.550	233.680	235.925	235.170	240.510	246.860	254.635	268.260	285.420	300.885
25.5	197.240	193.970	196.880	198.790	201.955	207.970	216.935	230.770	246.840	263.415
29.0	152.895	150.005	152.330	150.445	153.295	158.805	167.650	179.635	195.770	212.370
33.0	110.185	107.565	110.125	112.450	113.455	115.780	122.885	133.490	147.365	161.905
37.5	73.345	71.585	73.600	72.255	73.805	77.390	83.595	92.460	103.230	115.780
42.5	45.980	44.655	45.895	47.170	47.530	48.620	52.620	58.300	65.825	75.000
47.5	28.460	27.705	28.460	29.025	29.320	30.325	33.025	36.905	42.270	48.385
55.0	14.125	13.770	14.145	14.165	14.460	15.130	16.490	18.440	21.310	24.500
65.0	5.950	5.825	5.995	6.035	6.140	6.435	7.000	7.860	8.970	10.310
75.0	2.345	2.325	2.390	2.370	2.430	2.600	2.810	3.060	3.500	3.980
85.0	0.040	0.040	0.040	0.040	0.040	0.085	0.125	0.190	0.315	0.460
90.0	2.440	2.440	2.440	2.440	2.440	2.440	2.440	2.440	2.440	2.440
95.0	11.360	13.975	13.185	13.485	13.940	14.705	15.085	18.115	19.845	21.180
100.0	43.880	46.055	47.140	49.385	52.275	55.355	58.905	61.905	65.915	66.265
105.0	105.325	98.105	104.990	107.740	110.880	116.010	119.900	123.180	126.285	125.490
110.0	196.360	189.900	190.550	194.700	201.410	201.770	208.755	203.610	198.460	186.135
115.0	314.090	312.800	301.720	296.015	293.335	291.705	283.705	272.480	258.235	240.600
120.0	399.715	397.215	391.710	381.355	371.845	358.540	344.415	328.385	303.710	277.875
125.0	455.415	452.505	445.750	437.215	426.545	406.415	388.250	361.930	335.550	305.845
130.0	479.225	476.655	469.290	458.145	444.570	426.500	403.545	378.640	350.155	320.870
135.0	478.970	476.805	469.920	459.085	444.100	426.735	404.785	382.030	355.725	329.455
140.0	463.465	461.255	455.010	445.300	432.395	416.355	397.405	376.775	354.715	332.045
145.0	438.985	437.015	432.025	424.310	413.375	400.065	384.545	366.920	348.635	329.980
150.0	410.485	408.705	405.055	398.765	390.375	379.775	367.315	353.800	340.000	324.995
155.0	380.895	379.600	377.185	372.375	366.305	358.540	349.405	339.595	329.405	319.095
160.0	353.065	352.380	350.400	347.685	343.365	338.440	332.780	325.975	318.835	312.440
165.0	329.220	328.715	327.465	325.990	323.990	321.005	317.690	314.065	310.160	305.640
170.0	311.405	311.130	310.525	309.850	309.015	308.035	306.910	305.130	303.285	301.360
175.0	300.720	300.590	300.485	300.170	299.935	299.680	299.405	299.110	298.800	298.475
180.0	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>
0.0	451.470	451.470	451.470	451.470	451.470	451.470	451.470	451.470	451.470
1.0	466.395	468.095	470.150	472.410	473.710	474.780	475.365	475.680	476.290
3.0	468.660	471.365	472.875	474.065	474.465	475.430	475.955	476.165	476.415
5.0	468.075	469.435	470.630	470.670	471.680	472.725	473.625	474.215	474.195
7.0	460.930	462.710	463.800	464.845	466.355	467.615	468.975	469.435	469.625
9.0	451.750	454.580	456.590	458.140	459.965	462.015	463.380	464.450	464.845
11.0	439.010	442.760	445.150	448.040	451.225	453.825	455.835	456.990	457.510
13.0	421.740	428.740	432.595	436.870	440.810	443.995	446.445	448.205	448.960
15.0	405.605	412.915	418.490	424.150	429.160	433.370	436.765	438.945	439.320

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CANDELA TABULATION - (Cont.)

17.0	382.930	390.995	398.750	406.045	412.395	417.465	421.510	424.295	425.240
19.5	355.750	365.220	374.905	384.145	392.295	399.315	404.410	407.805	409.185
22.5	318.010	330.265	342.130	353.635	363.965	372.285	378.675	382.930	384.710
25.5	277.795	292.295	306.375	320.080	332.130	341.960	349.335	354.260	356.085
29.0	229.385	245.480	261.030	277.395	291.270	302.875	311.680	317.275	319.245
33.0	178.000	194.850	211.280	227.625	242.145	254.365	263.650	269.765	272.010
37.5	129.405	143.760	159.055	174.480	187.680	201.075	210.650	216.915	219.240
42.5	86.085	97.990	110.250	122.800	135.040	146.250	154.655	160.210	162.285
47.5	56.140	64.440	73.850	83.865	93.550	102.770	109.830	114.420	116.475
55.0	28.670	33.280	38.600	44.680	50.610	56.225	61.025	64.210	65.425
65.0	11.965	13.875	16.115	18.650	21.310	23.975	26.215	27.725	28.335
75.0	4.610	5.325	6.120	7.105	8.070	9.055	9.870	10.480	10.690
85.0	0.755	1.005	1.195	1.385	1.510	1.675	1.825	1.885	1.930
90.0	2.440	2.440	2.440	2.440	2.440	2.440	2.440	2.440	2.440
95.0	21.495	26.595	25.975	20.845	19.390	19.520	19.135	18.425	18.820
100.0	66.160	65.885	61.020	54.355	49.815	45.795	42.195	40.820	40.990
105.0	122.045	112.555	101.560	88.595	78.890	71.685	66.515	63.895	63.495
110.0	169.025	153.670	136.890	119.665	106.715	98.010	91.720	88.540	88.395
115.0	217.335	191.615	168.530	148.705	133.620	123.295	116.180	112.385	112.075
120.0	250.220	220.910	195.520	175.165	158.815	147.655	140.840	136.445	134.665
125.0	274.320	245.225	219.455	198.130	181.050	169.330	162.285	158.025	155.915
130.0	291.730	264.505	240.150	219.175	202.210	189.475	180.895	175.455	171.380
135.0	302.965	278.425	255.835	237.070	221.485	209.655	201.840	196.980	194.975
140.0	309.200	288.360	268.810	251.450	237.875	226.720	219.270	214.730	212.620
145.0	311.655	294.340	278.185	263.680	251.815	242.485	235.490	231.830	229.720
150.0	310.905	297.345	284.210	273.395	263.225	256.400	250.140	247.560	245.815
155.0	308.540	298.440	289.195	280.190	273.705	267.970	263.690	261.465	259.855
160.0	305.685	298.545	291.645	286.710	281.950	277.370	275.365	273.665	272.385
165.0	301.445	298.005	294.560	291.140	287.765	286.230	284.950	283.785	282.865
170.0	299.375	297.350	295.345	294.385	293.505	292.685	291.930	291.220	290.620
175.0	298.140	297.795	297.440	297.085	296.730	296.375	296.015	295.680	295.355
180.0	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	145.10	N.A.	7.90
0-30	264.16	N.A.	14.40
0-40	352.45	N.A.	19.20
0-60	449.13	N.A.	24.50
0-80	480.06	N.A.	26.20
0-90	484.11	N.A.	26.40
10-90	449.11	N.A.	24.50
20-40	207.35	N.A.	11.30
20-50	274.72	N.A.	15.00
40-70	118.05	N.A.	6.40
60-80	30.92	N.A.	1.70
70-80	9.55	N.A.	0.50
80-90	4.06	N.A.	0.20
90-110	135.19	N.A.	7.40
90-120	350.82	N.A.	19.10
90-130	619.75	N.A.	33.80
90-150	1084.21	N.A.	59.20
90-180	1347.9	N.A.	73.60
110-180	1212.7	N.A.	66.20
0-180	1832.01	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	35.00
10-20	110.10
20-30	119.05
30-40	88.29
40-50	67.37
50-60	29.31
60-70	21.37
70-80	9.55
80-90	4.06
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

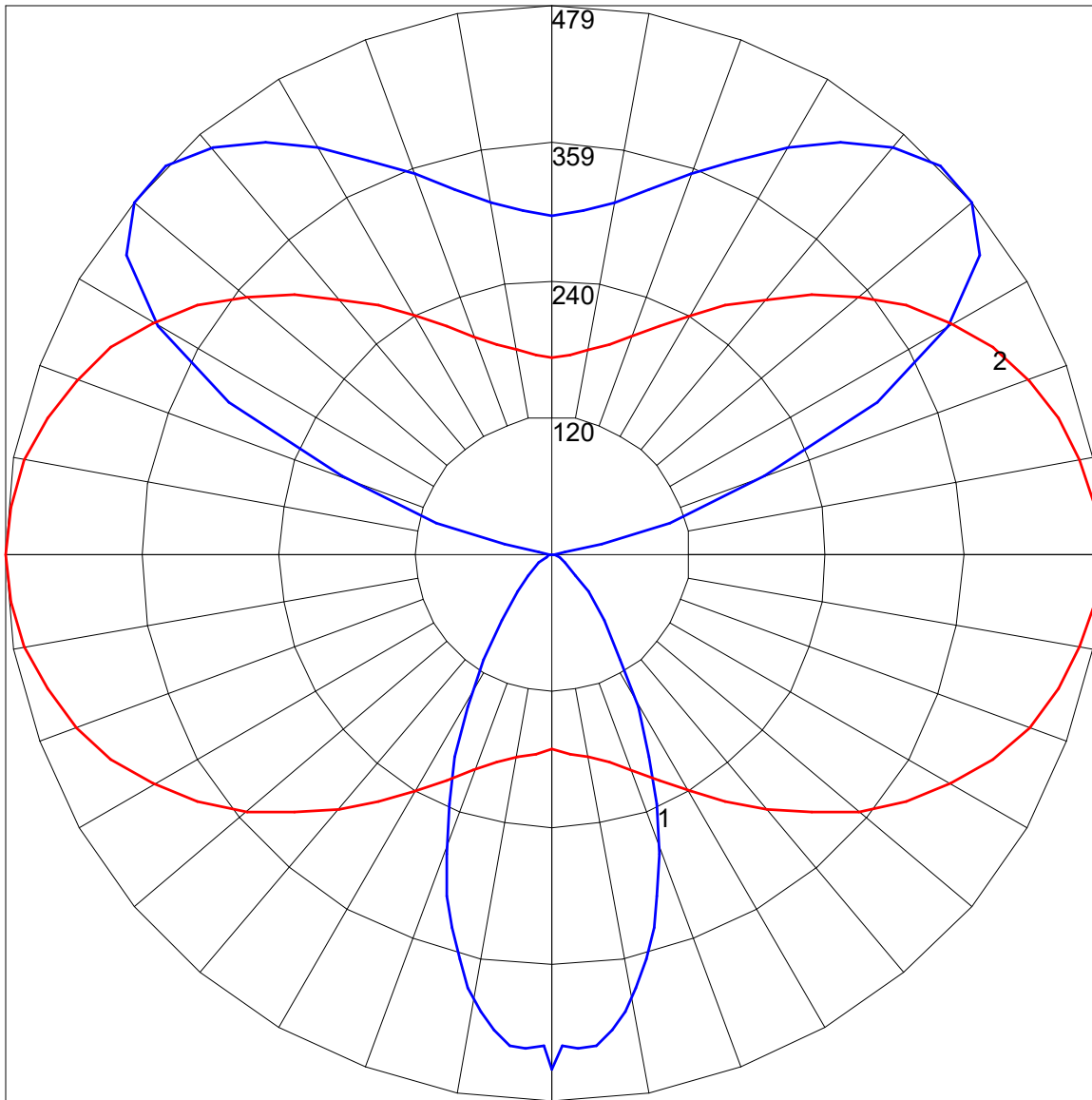
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	91	91	91	91	70	70	70	52	52	52	34	34	34	26
1	93	89	86	83	83	80	77	75	63	61	59	46	45	44	32	31	31	24
2	86	79	74	69	76	71	66	63	56	53	50	42	40	38	29	28	27	21
3	79	70	64	59	70	63	58	53	50	46	43	38	36	34	26	25	24	19
4	72	63	56	50	65	57	51	46	45	41	38	34	32	30	24	23	22	17
5	67	56	49	44	60	51	45	40	41	36	33	31	29	26	22	21	20	16
6	62	51	44	38	55	46	40	35	37	33	29	29	26	24	21	19	18	15
7	57	46	39	34	51	42	36	31	34	30	26	26	23	21	19	18	16	13
8	53	42	35	30	48	38	32	28	31	27	24	24	21	19	18	16	15	12
9	50	39	32	27	45	35	29	25	29	24	21	23	20	18	17	15	14	12
10	47	36	29	25	42	32	27	23	27	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.)