

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-BL-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	61	63	64	65
Total Lumens, 4' rail length (1219mm)	1676	1729	1764	1782
Lumens per foot (305mm)	419	432	441	445
Lumens per foot UP (305mm)	320	330	337	340
Lumens per foot DOWN (305mm)	99	102	104	105
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_BL.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L022010902 / L121911512 (SOURCE REPORTS FOR REFERENCE)

[TESTLAB] REPORT BASED ON DATA FROM NVLAP ACCREDITED LAB

[ISSUEDATE] 3/18/20

[MANUFAC] Vode Lighting

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

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

[MORE] 40° 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	1764
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	64
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	448	911	6481
55	164	337	3509
65	59	138	1946
75	25	55	1098
85	0	7	438

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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	412.100	412.100	412.100	412.100	412.100	412.100	412.100	412.100	412.100	412.100
1.0	381.485	389.510	396.255	402.965	406.400	407.215	408.390	408.955	409.815	421.530
3.0	391.335	392.990	398.520	403.990	408.285	410.150	410.740	411.075	411.535	421.470
5.0	384.210	387.645	395.040	400.470	403.380	405.270	406.315	407.215	408.100	409.335
7.0	373.980	379.095	385.005	390.850	394.035	395.860	396.530	397.765	399.505	401.435
9.0	366.395	369.415	376.455	382.005	385.150	383.975	384.585	386.345	391.815	395.230
11.0	364.130	362.185	364.930	368.220	368.680	366.900	368.365	371.360	375.405	380.895
13.0	343.050	341.225	342.755	346.300	347.115	345.355	347.240	349.650	356.045	362.705
15.0	292.255	294.535	301.265	305.330	309.750	317.485	322.385	329.030	336.450	343.660
17.0	279.300	278.275	281.395	285.525	288.940	293.950	298.080	305.705	314.550	323.645
19.5	261.445	258.870	258.155	259.920	259.035	261.155	258.200	267.230	278.150	289.905
22.5	195.270	196.860	198.370	200.655	208.595	214.885	223.645	224.230	236.865	250.300
25.5	173.055	170.560	170.475	171.230	173.515	178.505	185.585	184.560	197.635	211.720
29.0	133.490	130.495	129.720	132.235	134.285	136.905	141.475	151.430	163.205	176.615
33.0	88.435	89.585	88.685	89.565	92.375	96.900	103.920	113.100	114.985	127.725
37.5	56.835	57.525	57.315	58.720	61.525	65.465	70.665	77.640	78.835	89.000
42.5	38.935	37.825	37.615	38.475	40.070	41.260	44.865	49.645	55.720	63.435
47.5	24.435	24.245	23.955	24.395	25.085	26.340	25.775	29.065	33.195	38.285
55.0	12.450	12.260	12.070	12.300	12.680	13.370	13.140	14.860	17.060	19.720
65.0	4.610	4.735	4.755	4.905	5.220	5.595	6.140	6.830	7.105	8.195
75.0	2.010	2.010	1.990	2.095	2.140	2.240	2.450	2.705	2.810	3.225
85.0	0.000	0.000	0.000	0.000	0.040	0.040	0.085	0.125	0.210	0.375
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	412.100	412.100	412.100	412.100	412.100	412.100	412.100	412.100	412.100
1.0	421.865	422.245	422.535	422.995	423.520	423.775	423.980	424.130	424.400
3.0	421.845	422.350	422.745	423.205	423.565	423.940	424.275	424.360	424.525
5.0	418.175	419.350	420.250	421.175	422.140	422.600	423.060	423.230	423.520
7.0	409.480	411.535	413.565	415.580	417.045	418.200	419.015	419.560	420.085
9.0	398.875	402.270	405.520	408.265	410.780	412.560	414.005	414.950	415.430
11.0	386.010	390.975	395.545	399.905	403.070	405.875	408.140	409.565	410.195
13.0	369.540	376.225	382.490	388.505	393.430	396.970	400.175	402.000	402.565
15.0	351.515	358.975	366.020	374.465	380.580	386.260	390.580	393.345	395.900

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CANDELA TABULATION - (Cont.)

17.0	333.285	342.630	350.615	360.610	368.950	375.680	380.350	383.955	385.340
19.5	302.645	315.260	327.395	339.360	349.315	357.005	363.545	367.360	367.735
22.5	265.095	279.700	294.095	308.535	320.230	330.455	338.670	343.890	345.440
25.5	227.080	243.300	259.500	275.885	289.970	301.285	310.800	316.645	318.320
29.0	184.035	200.760	218.130	235.190	249.860	263.650	274.840	281.755	285.085
33.0	142.500	158.530	174.795	192.125	207.885	221.190	232.150	239.400	241.495
37.5	101.220	114.840	129.530	144.995	158.740	171.900	182.570	189.465	191.580
42.5	72.760	82.420	93.465	105.365	112.470	124.020	133.595	139.695	142.625
47.5	44.635	51.990	60.330	69.425	78.290	86.215	93.295	97.865	98.995
55.0	23.075	27.035	31.600	36.590	41.365	46.270	50.400	53.185	54.235
65.0	9.555	11.150	13.015	15.130	17.245	19.425	21.230	22.485	22.970
75.0	3.690	4.275	4.945	5.740	6.495	7.250	7.940	8.405	8.550
85.0	0.585	0.840	1.050	1.155	1.235	1.320	1.405	1.510	1.550
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	129.62	N.A.	7.30
0-30	232.32	N.A.	13.20
0-40	306.62	N.A.	17.40
0-60	387.50	N.A.	22.00
0-80	412.85	N.A.	23.40
0-90	416.27	N.A.	23.60
10-90	384.87	N.A.	21.80
20-40	177.01	N.A.	10.00
20-50	233.59	N.A.	13.20
40-70	98.44	N.A.	5.60
60-80	25.35	N.A.	1.40
70-80	7.78	N.A.	0.40
80-90	3.42	N.A.	0.20
90-110	135.19	N.A.	7.70
90-120	350.82	N.A.	19.90
90-130	619.75	N.A.	35.10
90-150	1084.21	N.A.	61.50
90-180	1347.9	N.A.	76.40
110-180	1212.7	N.A.	68.70
0-180	1764.17	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	31.40
10-20	98.22
20-30	102.70
30-40	74.31
40-50	56.58
50-60	24.29
60-70	17.57
70-80	7.78
80-90	3.42
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

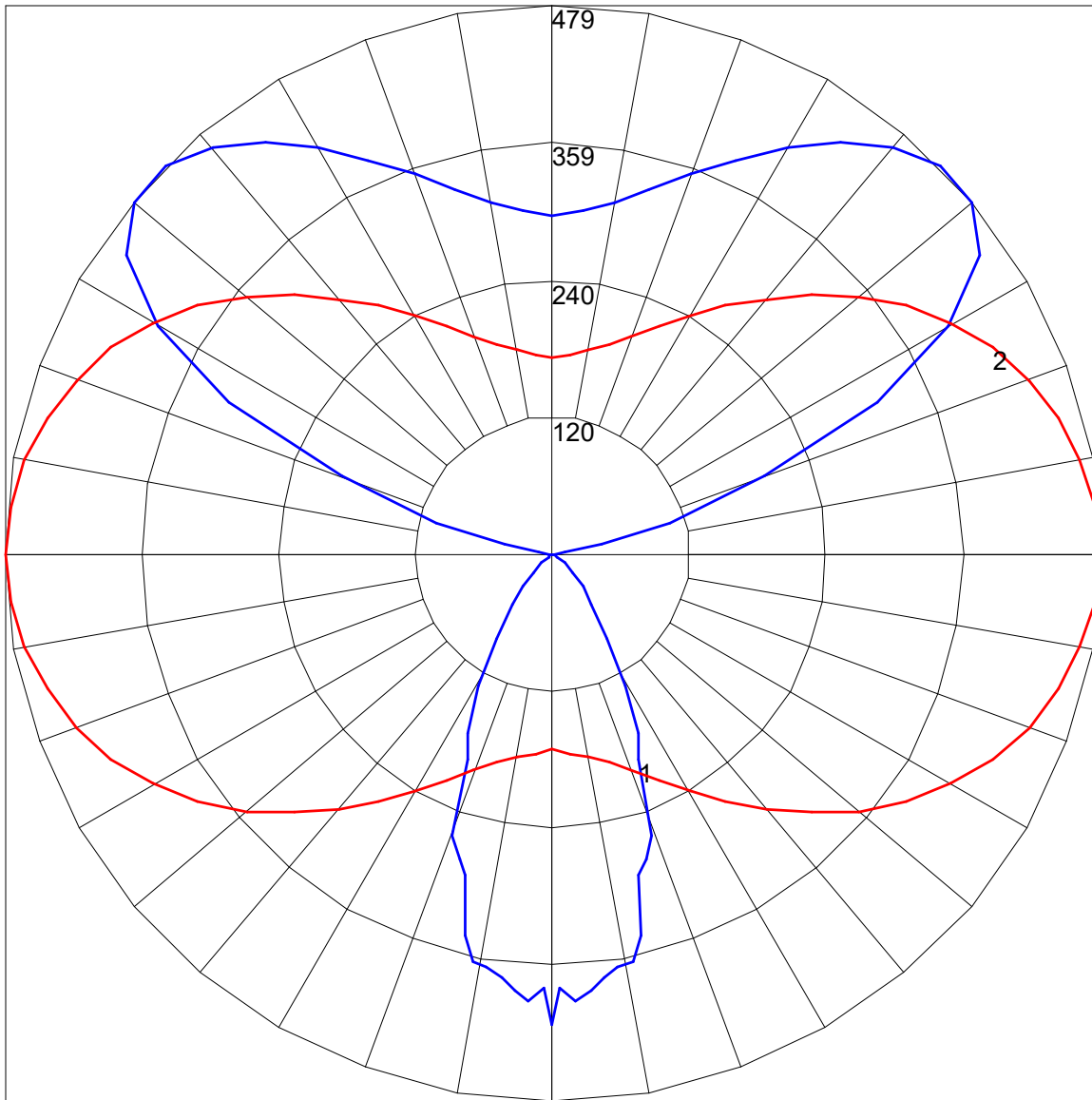
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	101	101	101	101	90	90	90	90	69	69	69	49	49	49	32	32	32	24
1	93	89	85	82	82	79	76	74	61	59	58	44	43	42	29	29	28	21
2	85	78	73	68	75	70	66	62	54	51	49	40	38	37	27	26	25	19
3	78	70	63	58	69	62	57	53	49	45	42	36	34	32	24	23	22	17
4	72	62	55	50	64	56	50	45	44	40	37	33	30	28	23	21	20	16
5	66	56	48	43	59	50	44	39	40	35	32	30	27	25	21	19	18	14
6	61	50	43	38	54	45	39	35	36	32	28	27	25	22	19	18	16	13
7	57	46	38	33	51	41	35	31	33	29	25	25	22	20	18	16	15	12
8	53	42	35	30	47	38	32	27	30	26	23	23	20	18	17	15	14	11
9	49	38	31	27	44	35	29	25	28	24	21	22	19	17	16	14	13	11
10	46	35	28	24	41	32	26	22	26	22	19	20	17	15	15	13	12	10

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.)