

IES Report

DoubleBox™ | 107 | 120° Batwing, up | Black Baffle, down | 90 CRI | LO

107-DB-XX-4-48-XX-XX-XX-XX-X-X-Z-LO-359-G1BB-X-XX-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	56	57	58	60
Total Lumens, 4' rail length (1219mm)	1645	1697	1731	1766
Lumens per foot (305mm)	411	424	433	442
Lumens per foot UP (305mm)	321	331	338	344
Lumens per foot DOWN (305mm)	91	93	95	97
Input Power (W), 4' rail length (1219mm)	29.9	29.9	29.9	29.9
Watts per foot (305mm)	7.5	7.5	7.5	7.5
CRI	96	96	96	96

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_G1BB.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L011800102 (SOURCE REPORT FOR REFERENCE)

[TESTLAB] REPORT BASED ON DATA PRODUCED BY NVLAP ACCREDITED LAB

[ISSUEDATE] 1/9/2018

[MANUFAC] Vode Lighting

[LUMCAT] 107-DB-48-Z-LO-359-G1BB

[LUMINAIRE] DoubleBox LED, 48", 3500K, 90 CRI, zipper board,

[MORE] 120° batwing lens up with white polycarbonate reflectors/black baffle down, low output

[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1731
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	58
Total Luminaire Watts	29.9
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	156	445	518
55	121	110	273
65	79	54	153
75	48	38	119
85	18	22	145

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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	482.525	482.525	482.525	482.525	482.525	482.525	482.525	482.525	482.525	482.525
5	480.700	474.985	469.310	463.790	458.370	453.120	448.080	443.285	438.770	434.570
10	474.845	463.370	452.155	441.165	430.540	420.350	411.010	403.820	397.320	391.330
15	465.585	448.595	432.090	415.955	401.020	389.485	378.660	368.640	359.490	346.545
20	452.510	430.770	409.780	390.005	373.730	358.415	342.240	319.880	299.085	280.050
25	435.235	408.590	382.820	362.255	343.320	318.595	289.785	262.095	245.580	230.485
30	414.520	384.145	355.845	331.925	303.605	269.605	241.495	219.330	197.850	171.105
35	383.300	348.825	318.485	290.465	248.620	216.235	190.855	162.095	132.350	110.355
40	173.340	160.190	152.085	147.910	143.675	145.465	124.185	99.695	86.235	66.730
45	11.210	17.245	29.110	37.445	36.920	33.680	43.500	40.480	35.440	25.535
50	9.965	9.795	9.505	9.160	8.705	10.220	9.505	10.840	11.410	11.585
55	9.260	8.955	8.395	7.680	6.925	6.425	5.895	6.025	6.275	6.585
60	8.510	8.115	7.360	6.485	5.750	5.100	4.705	4.380	4.310	4.315
65	6.230	6.130	5.775	5.210	4.745	4.330	3.980	3.665	3.405	3.230
70	4.900	4.695	4.510	4.315	4.020	3.725	3.435	3.150	2.890	2.670
75	3.735	3.565	3.705	3.565	3.380	3.125	2.880	2.655	2.440	2.250
80	2.990	2.940	2.925	2.830	2.675	2.505	2.320	2.140	1.965	1.825
85	1.330	1.570	1.595	1.555	1.505	1.470	1.395	1.375	1.290	1.215
90	0.465	0.480	0.480	0.480	0.500	0.480	0.480	0.480	0.455	0.455
95	17.605	22.010	21.770	22.475	23.265	23.820	25.695	25.635	25.035	25.470
100	73.365	67.920	69.140	69.420	69.565	69.365	69.055	68.615	66.420	64.210
105	127.630	120.565	120.765	121.205	120.810	120.305	119.535	117.935	115.160	109.940
110	185.050	182.605	176.420	175.085	175.980	174.185	171.765	171.665	164.945	157.620
115	244.545	244.720	240.305	235.595	233.215	232.385	229.985	225.715	219.635	208.470
120	302.295	302.065	301.420	298.410	293.990	290.045	285.920	280.915	270.205	255.355
125	355.770	355.000	354.220	352.520	350.295	344.795	340.270	328.510	316.195	298.975
130	401.730	400.855	399.115	396.170	392.735	387.235	378.880	367.300	351.455	330.290
135	438.060	437.275	434.940	431.210	426.070	419.920	408.630	396.820	377.165	356.740
140	463.970	462.765	459.715	455.065	449.075	441.780	429.080	413.660	395.320	371.060
145	478.290	476.705	473.075	467.635	459.695	450.305	438.600	420.000	400.710	378.255
150	477.255	475.355	471.700	464.805	456.060	445.310	432.585	415.945	397.020	376.675
155	457.990	456.145	452.990	446.310	438.015	427.575	415.375	402.345	385.945	369.145
160	425.395	424.110	420.935	416.400	409.090	400.770	391.270	379.980	368.095	356.965
165	385.455	384.570	382.425	379.705	375.955	370.395	364.265	357.630	350.555	342.580
170	349.625	349.175	348.185	346.975	345.445	343.615	341.495	338.395	335.125	331.690
175	327.290	327.125	326.945	326.580	326.245	325.865	325.445	324.985	324.490	323.960
180	320.000	320.000	320.000	320.000	320.000	320.000	320.000	320.000	320.000	320.000

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	482.525	482.525	482.525	482.525	482.525	482.525	482.525	482.525	482.525
5	430.715	427.235	424.155	421.500	419.295	417.550	415.760	415.395	415.265
10	385.900	381.060	376.835	372.655	369.180	366.445	364.470	363.075	362.830
15	333.180	320.565	309.315	299.520	291.260	284.850	280.310	277.160	276.885
20	266.080	256.305	247.600	238.920	231.970	226.725	223.215	220.960	221.000
25	216.920	199.105	181.515	166.510	153.660	143.640	136.355	130.875	129.870
30	145.460	124.130	112.840	103.260	95.400	89.055	84.550	80.095	78.510
35	93.930	79.390	65.410	52.860	41.870	33.200	27.075	23.250	21.840
40	47.425	29.525	22.725	20.575	18.640	17.180	16.280	15.750	15.570
45	20.140	17.150	15.520	14.230	13.105	12.100	11.370	10.940	10.835
50	11.925	11.235	10.465	9.745	9.000	8.265	7.715	7.365	7.225
55	7.025	6.965	6.835	6.490	6.015	5.545	5.155	4.885	4.735
60	4.405	4.390	4.375	4.250	3.995	3.700	3.435	3.220	3.115

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CANDELA TABULATION - (Cont.)

65	3.125	3.020	2.990	2.890	2.710	2.515	2.345	2.155	2.035
70	2.475	2.330	2.230	2.110	1.955	1.825	1.680	1.515	1.455
75	2.055	1.885	1.750	1.620	1.475	1.345	1.215	1.100	1.040
80	1.655	1.495	1.385	1.260	1.130	0.995	0.920	0.830	0.750
85	1.155	1.095	1.025	0.960	0.845	0.755	0.645	0.605	0.580
90	0.455	0.435	0.375	0.375	0.375	0.375	0.290	0.290	0.290
95	23.300	20.685	18.390	16.425	14.355	13.225	12.770	12.575	12.375
100	59.900	53.750	48.120	43.910	40.865	39.400	39.305	39.140	38.320
105	102.165	92.095	81.770	72.995	67.970	65.265	63.775	63.410	63.775
110	147.235	133.080	118.820	107.020	99.150	95.135	93.435	91.895	91.795
115	192.695	171.685	154.755	140.610	130.105	124.115	121.190	119.515	119.035
120	236.910	213.695	189.510	171.770	159.530	151.950	147.835	145.995	146.185
125	273.780	247.210	221.565	199.980	184.865	175.110	169.885	167.940	167.320
130	305.765	276.895	250.175	227.530	210.465	200.180	193.895	190.700	190.030
135	328.075	300.115	273.030	250.975	233.575	221.655	215.105	211.485	210.250
140	345.240	317.570	292.170	269.965	253.630	241.000	234.090	230.345	229.100
145	353.400	329.310	306.250	286.400	271.005	259.725	252.065	248.370	246.455
150	355.860	335.095	315.365	299.410	284.950	276.145	268.245	265.315	263.310
155	352.385	336.245	321.395	307.215	297.630	289.365	283.400	280.610	278.545
160	345.470	333.565	322.140	314.305	306.800	299.515	296.800	294.440	292.580
165	335.290	329.385	323.520	317.715	311.875	309.515	307.405	305.415	303.705
170	328.120	324.440	320.745	319.170	317.660	316.210	314.825	313.500	312.300
175	323.410	322.830	322.235	321.625	321.010	320.385	319.745	319.135	318.530
180	320.000	320.000	320.000	320.000	320.000	320.000	320.000	320.000	320.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	139.45	N.A.	8.10
0-30	253.49	N.A.	14.60
0-40	341.67	N.A.	19.70
0-60	373.49	N.A.	21.60
0-80	379.76	N.A.	21.90
0-90	381.02	N.A.	22.00
10-90	339.96	N.A.	19.60
20-40	202.23	N.A.	11.70
20-50	227.83	N.A.	13.20
40-70	35.57	N.A.	2.10
60-80	6.27	N.A.	0.40
70-80	2.51	N.A.	0.10
80-90	1.26	N.A.	0.10
90-110	131.50	N.A.	7.60
90-120	318.63	N.A.	18.40
90-130	563.11	N.A.	32.50
90-150	1051.49	N.A.	60.70
90-180	1350.44	N.A.	78.00
110-180	1218.94	N.A.	70.40
0-180	1731.46	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	41.05
10-20	98.39
20-30	114.05
30-40	88.18
40-50	25.60
50-60	6.21
60-70	3.76
70-80	2.51
80-90	1.26
90-100	26.69
100-110	104.81
110-120	187.13
120-130	244.47
130-140	258.37
140-150	230.02
150-160	169.92
160-170	97.91
170-180	31.13

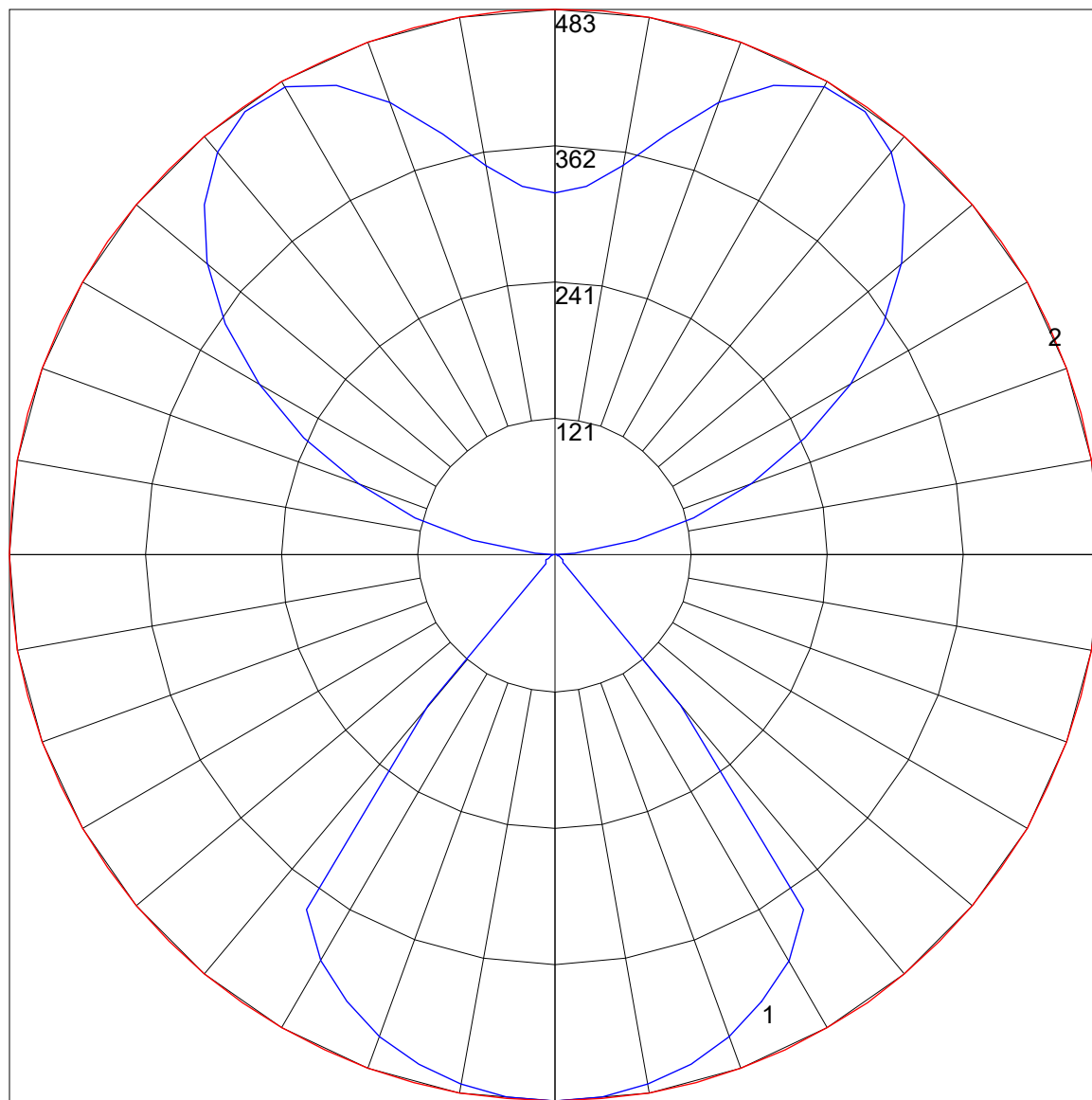
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	89	89	89	89	68	68	68	48	48	48	30	30	30	22
1	92	89	85	82	82	79	76	74	61	59	57	44	43	42	28	28	27	20
2	85	79	73	69	75	70	66	62	54	52	49	40	38	37	26	25	25	19
3	78	70	64	59	70	63	58	53	49	46	43	36	34	32	24	23	23	17
4	72	63	56	51	64	56	51	46	44	40	37	33	31	29	23	21	21	16
5	67	57	50	44	59	51	45	41	40	36	33	30	28	26	21	20	19	15
6	62	51	44	39	55	46	40	36	37	33	30	28	25	23	20	18	17	14
7	57	47	40	35	51	42	36	32	34	30	26	26	23	21	18	17	16	13
8	53	43	36	31	48	39	33	29	31	27	24	24	21	19	17	16	15	12
9	50	39	32	28	45	36	30	26	29	25	22	22	20	18	16	15	14	11
10	47	36	30	25	42	33	27	23	27	23	20	21	18	16	15	14	13	11

POLAR GRAPH



Maximum Candela = 482.525 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.)