

## IES Report

DoubleBox™ | 107 | Wide 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	62	64	65	66
Total Lumens, 4' rail length (1219mm)	1696	1749	1785	1803
Lumens per foot (305mm)	424	437	446	451
Lumens per foot UP (305mm)	320	330	337	340
Lumens per foot DOWN (305mm)	104	107	109	110
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\_G1BB.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L022010902 / L121911508 (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-G1BB-AL

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

[MORE] black baffle 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	1785
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	65
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	149	462	607
55	120	106	271
65	85	44	121
75	52	31	59
85	21	19	24

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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</b>	497.680	497.680	497.680	497.680	497.680	497.680	497.680	497.680	497.680	497.680
<b>5</b>	497.160	496.910	495.945	494.665	492.950	490.705	488.315	485.445	482.680	479.975
<b>10</b>	492.930	491.565	487.605	481.570	473.755	465.705	457.950	450.305	443.010	436.390
<b>15</b>	483.750	480.880	471.970	459.755	446.595	434.000	421.675	409.040	396.195	384.605
<b>20</b>	470.880	465.665	450.555	433.140	415.245	397.160	378.715	360.970	344.370	329.955
<b>25</b>	454.325	446.090	425.260	403.405	379.305	355.435	333.160	312.285	292.735	274.125
<b>30</b>	433.830	422.035	395.945	369.245	339.385	311.765	286.950	261.700	234.560	208.825
<b>35</b>	409.145	393.910	362.895	330.705	296.840	266.980	236.490	203.170	169.115	143.740
<b>40</b>	244.975	241.835	241.540	240.680	232.780	211.530	173.430	142.500	108.030	71.880
<b>45</b>	10.520	10.960	11.880	13.830	22.760	36.755	56.810	62.430	37.740	25.795
<b>50</b>	9.430	9.265	8.800	8.280	7.840	7.630	8.045	9.600	11.945	13.580
<b>55</b>	9.095	8.800	8.070	7.270	6.390	5.660	5.155	5.070	5.405	6.205
<b>60</b>	8.760	8.320	7.440	6.475	5.490	4.650	4.110	3.750	3.565	3.605
<b>65</b>	6.705	6.455	5.890	5.260	4.570	3.960	3.520	3.145	2.850	2.640
<b>70</b>	5.240	5.050	4.650	4.235	3.750	3.355	2.975	2.685	2.390	2.160
<b>75</b>	4.065	3.960	3.690	3.415	3.125	2.830	2.535	2.265	2.010	1.825
<b>80</b>	3.270	3.165	2.935	2.725	2.535	2.285	2.075	1.865	1.635	1.465
<b>85</b>	1.635	1.635	1.570	1.530	1.490	1.445	1.385	1.320	1.215	1.090
<b>90</b>	2.440	2.440	2.440	2.440	2.440	2.440	2.440	2.440	2.440	2.440
<b>95</b>	11.360	13.975	13.185	13.485	13.940	14.705	15.085	18.115	19.845	21.180
<b>100</b>	43.880	46.055	47.140	49.385	52.275	55.355	58.905	61.905	65.915	66.265
<b>105</b>	105.325	98.105	104.990	107.740	110.880	116.010	119.900	123.180	126.285	125.490
<b>110</b>	196.360	189.900	190.550	194.700	201.410	201.770	208.755	203.610	198.460	186.135
<b>115</b>	314.090	312.800	301.720	296.015	293.335	291.705	283.705	272.480	258.235	240.600
<b>120</b>	399.715	397.215	391.710	381.355	371.845	358.540	344.415	328.385	303.710	277.875
<b>125</b>	455.415	452.505	445.750	437.215	426.545	406.415	388.250	361.930	335.550	305.845
<b>130</b>	479.225	476.655	469.290	458.145	444.570	426.500	403.545	378.640	350.155	320.870
<b>135</b>	478.970	476.805	469.920	459.085	444.100	426.735	404.785	382.030	355.725	329.455
<b>140</b>	463.465	461.255	455.010	445.300	432.395	416.355	397.405	376.775	354.715	332.045
<b>145</b>	438.985	437.015	432.025	424.310	413.375	400.065	384.545	366.920	348.635	329.980
<b>150</b>	410.485	408.705	405.055	398.765	390.375	379.775	367.315	353.800	340.000	324.995
<b>155</b>	380.895	379.600	377.185	372.375	366.305	358.540	349.405	339.595	329.405	319.095
<b>160</b>	353.065	352.380	350.400	347.685	343.365	338.440	332.780	325.975	318.835	312.440
<b>165</b>	329.220	328.715	327.465	325.990	323.990	321.005	317.690	314.065	310.160	305.640
<b>170</b>	311.405	311.130	310.525	309.850	309.015	308.035	306.910	305.130	303.285	301.360
<b>175</b>	300.720	300.590	300.485	300.170	299.935	299.680	299.405	299.110	298.800	298.475
<b>180</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</b>	497.680	497.680	497.680	497.680	497.680	497.680	497.680	497.680	497.680
<b>5</b>	477.255	474.885	472.745	470.755	469.205	467.950	466.985	466.500	466.315
<b>10</b>	429.935	424.045	418.680	413.965	409.920	406.755	404.410	403.025	402.605
<b>15</b>	373.980	364.175	355.835	348.625	342.800	338.250	335.085	333.180	332.445
<b>20</b>	316.855	304.680	293.740	283.935	275.465	268.470	263.185	260.045	258.935
<b>25</b>	255.245	237.015	220.710	206.585	195.100	186.255	179.990	176.220	174.940
<b>30</b>	184.750	164.065	146.525	130.010	115.615	103.630	94.720	89.380	87.430
<b>35</b>	116.120	88.540	63.980	45.600	35.480	30.135	27.455	26.110	25.690
<b>40</b>	42.080	29.485	25.000	22.530	20.685	19.215	18.170	17.520	17.310
<b>45</b>	22.320	19.740	17.435	15.550	14.060	12.930	12.090	11.525	11.315
<b>50</b>	13.685	12.700	11.400	10.145	9.115	8.280	7.630	7.230	7.040
<b>55</b>	6.960	7.210	6.855	6.245	5.660	5.095	4.630	4.315	4.190
<b>60</b>	3.750	3.920	3.940	3.750	3.435	3.125	2.830	2.580	2.430

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**CANDELA TABULATION - (Cont.)**

<b>65</b>	2.535	2.475	2.430	2.305	2.160	1.950	1.720	1.530	1.425
<b>70</b>	1.990	1.825	1.700	1.550	1.405	1.235	1.090	0.920	0.840
<b>75</b>	1.595	1.425	1.280	1.130	0.985	0.840	0.690	0.585	0.460
<b>80</b>	1.280	1.110	0.985	0.840	0.735	0.585	0.480	0.335	0.250
<b>85</b>	1.005	0.860	0.715	0.630	0.505	0.420	0.315	0.190	0.085
<b>90</b>	2.440	2.440	2.440	2.440	2.440	2.440	2.440	2.440	2.440
<b>95</b>	21.495	26.595	25.975	20.845	19.390	19.520	19.135	18.425	18.820
<b>100</b>	66.160	65.885	61.020	54.355	49.815	45.795	42.195	40.820	40.990
<b>105</b>	122.045	112.555	101.560	88.595	78.890	71.685	66.515	63.895	63.495
<b>110</b>	169.025	153.670	136.890	119.665	106.715	98.010	91.720	88.540	88.395
<b>115</b>	217.335	191.615	168.530	148.705	133.620	123.295	116.180	112.385	112.075
<b>120</b>	250.220	220.910	195.520	175.165	158.815	147.655	140.840	136.445	134.665
<b>125</b>	274.320	245.225	219.455	198.130	181.050	169.330	162.285	158.025	155.915
<b>130</b>	291.730	264.505	240.150	219.175	202.210	189.475	180.895	175.455	171.380
<b>135</b>	302.965	278.425	255.835	237.070	221.485	209.655	201.840	196.980	194.975
<b>140</b>	309.200	288.360	268.810	251.450	237.875	226.720	219.270	214.730	212.620
<b>145</b>	311.655	294.340	278.185	263.680	251.815	242.485	235.490	231.830	229.720
<b>150</b>	310.905	297.345	284.210	273.395	263.225	256.400	250.140	247.560	245.815
<b>155</b>	308.540	298.440	289.195	280.190	273.705	267.970	263.690	261.465	259.855
<b>160</b>	305.685	298.545	291.645	286.710	281.950	277.370	275.365	273.665	272.385
<b>165</b>	301.445	298.005	294.560	291.140	287.765	286.230	284.950	283.785	282.865
<b>170</b>	299.375	297.350	295.345	294.385	293.505	292.685	291.930	291.220	290.620
<b>175</b>	298.140	297.795	297.440	297.085	296.730	296.375	296.015	295.680	295.355
<b>180</b>	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	155.24	N.A.	8.70
0-30	287.15	N.A.	16.10
0-40	392.60	N.A.	22.00
0-60	429.87	N.A.	24.10
0-80	435.41	N.A.	24.40
0-90	437.06	N.A.	24.50
10-90	392.37	N.A.	22.00
20-40	237.36	N.A.	13.30
20-50	268.72	N.A.	15.10
40-70	40.64	N.A.	2.30
60-80	5.54	N.A.	0.30
70-80	2.17	N.A.	0.10
80-90	1.65	N.A.	0.10
90-110	135.19	N.A.	7.60
90-120	350.82	N.A.	19.70
90-130	619.75	N.A.	34.70
90-150	1084.21	N.A.	60.70
90-180	1347.9	N.A.	75.50
110-180	1212.7	N.A.	67.90
0-180	1784.96	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	44.69
10-20	110.55
20-30	131.91
30-40	105.45
40-50	31.36
50-60	5.91
60-70	3.37
70-80	2.17
80-90	1.65
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

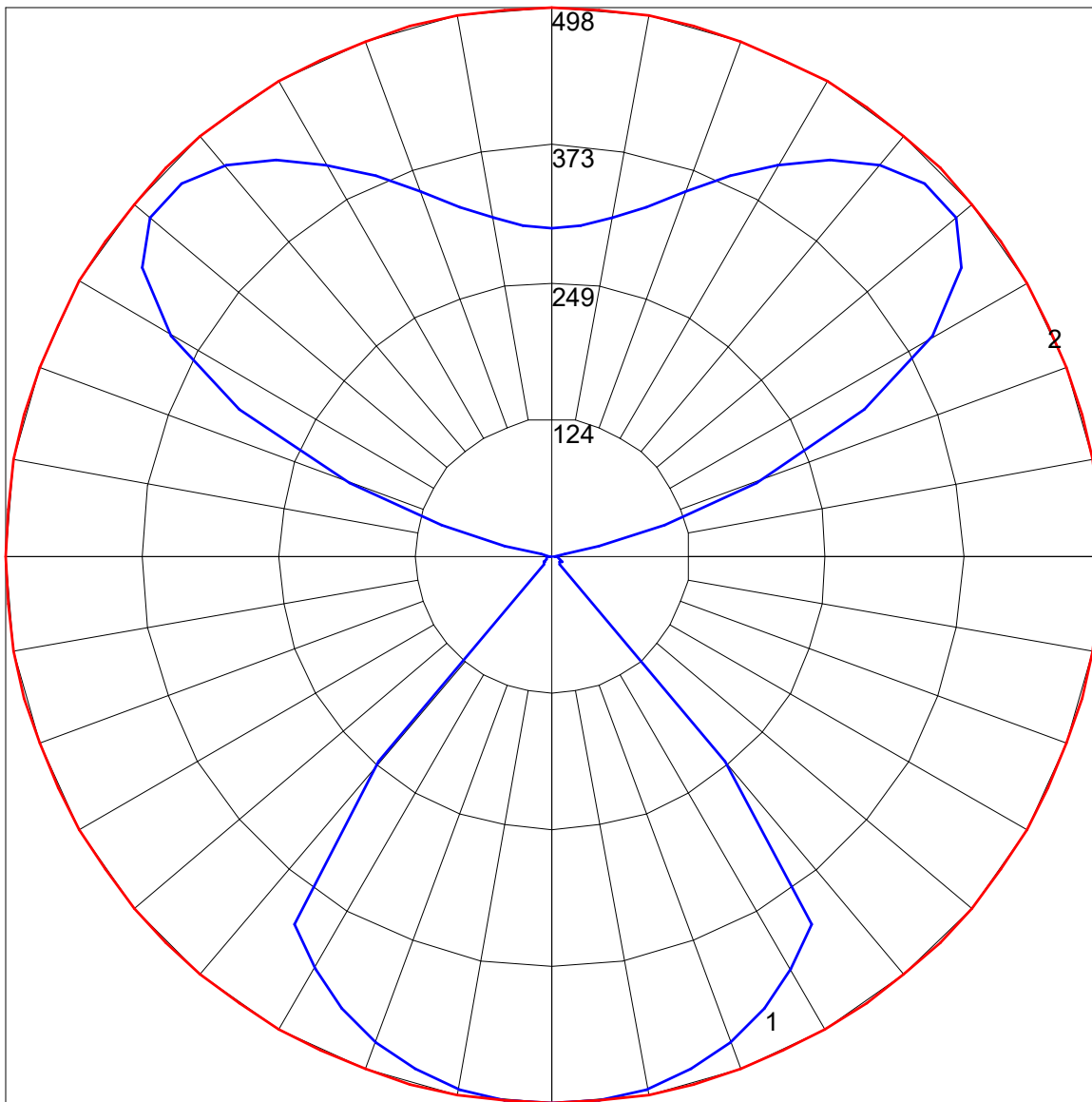
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	50	50	50	33	33	33	24
1	93	89	86	83	83	80	77	75	62	60	59	46	45	44	30	30	30	23
2	86	79	74	70	76	71	67	63	56	53	50	41	40	38	28	27	27	21
3	79	71	65	60	70	64	59	54	50	47	44	38	36	34	26	25	24	19
4	73	64	57	52	65	57	52	47	46	42	39	35	32	30	24	23	22	18
5	67	57	50	45	60	52	46	41	42	37	34	32	29	27	23	21	20	17
6	63	52	45	40	56	47	41	37	38	34	31	29	27	25	21	20	19	16
7	58	47	40	35	52	43	37	33	35	31	28	27	24	22	20	18	17	14
8	54	43	36	32	49	39	34	29	32	28	25	25	22	20	19	17	16	14
9	51	40	33	29	46	36	31	27	30	26	23	23	21	19	18	16	15	13
10	47	37	30	26	43	34	28	24	28	24	21	22	19	17	17	15	14	12

POLAR GRAPH



Maximum Candela = 497.68 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.)