

## IES Report

BoxRail® | 207 | Wide Batwing, up | 120° Flywing, down | 90 CRI | LO

207-BX-XX-4-48-XX-XX-XX-XX-X-X-Z-LO-359-G1G2-X-AL / WH-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	93	96	98	99
Total Lumens, 4' rail length (1219mm)	2674	2759	2815	2843
Lumens per foot (305mm)	669	690	704	711
Lumens per foot UP (305mm)	328	338	345	349
Lumens per foot DOWN (305mm)	341	351	359	362
Input Power (W), 4' rail length (1219mm)	28.8	28.8	28.8	28.8
Watts per foot (305mm)	7.2	7.2	7.2	7.2
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\_207\_BX\_LO\_359\_G1G2.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L022012001 (SOURCE REPORT FOR REFERENCE)

[TESTLAB] REPORT BASED ON DATA FROM NVLAP ACCREDITED LAB

[ISSUE DATE] 12/23/2019

[MANUFAC] Vode Lighting

[LUMCAT] 207-BX-48-Z-LO-359-G1G2

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

[MORE] 120° flywing 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	2815
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	98
Total Luminaire Watts	28.76
Ballast Factor	1.00
CIE Type	General Diffuse
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)	4.00 ft
Luminous Height	0.09 ft

### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	9786	10197	12413
55	7223	8080	11798
65	4157	5222	10689
75	1334	2128	8153
85	150	249	3009

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_207\_BX\_LO\_359\_G1G2.IES**

**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>	454.830	454.830	454.830	454.830	454.830	454.830	454.830	454.830	454.830	454.830
<b>5</b>	460.950	460.635	460.310	459.825	459.370	458.880	458.365	457.825	457.265	456.685
<b>10</b>	478.135	477.430	476.320	475.040	473.520	471.780	469.815	466.640	463.395	460.065
<b>15</b>	501.140	500.140	498.320	496.110	493.045	488.060	482.715	477.060	471.140	464.140
<b>20</b>	521.930	520.540	518.180	514.840	509.045	502.740	495.600	486.695	477.535	467.905
<b>25</b>	533.245	531.400	529.115	524.085	518.235	510.710	501.940	493.050	480.115	466.665
<b>30</b>	530.105	528.475	526.085	521.295	515.465	508.250	499.950	488.505	474.990	459.960
<b>35</b>	512.040	510.440	507.880	504.545	499.335	493.465	486.275	473.395	460.555	444.840
<b>40</b>	480.690	479.595	477.260	474.130	470.465	466.020	457.785	448.100	436.685	420.700
<b>45</b>	437.560	437.080	435.365	433.130	430.250	427.130	420.040	413.230	400.795	388.665
<b>50</b>	384.040	383.195	382.035	381.040	380.085	377.535	373.195	367.100	357.805	345.105
<b>55</b>	321.340	320.510	320.610	320.725	319.570	315.915	314.415	310.085	305.215	297.710
<b>60</b>	254.660	254.210	253.250	249.100	248.090	246.955	246.635	246.315	243.770	239.205
<b>65</b>	178.380	178.855	175.790	174.120	174.475	177.640	178.130	177.355	179.125	179.925
<b>70</b>	108.175	105.635	105.690	106.665	111.660	113.050	115.480	117.490	119.925	120.665
<b>75</b>	53.395	50.360	54.395	55.445	56.790	58.710	60.230	61.785	65.020	66.025
<b>80</b>	14.920	17.665	16.810	17.770	18.785	19.545	20.895	23.510	24.650	28.185
<b>85</b>	5.405	5.840	5.875	5.820	5.775	5.755	5.550	5.620	5.985	6.635
<b>90</b>	3.250	3.270	3.250	3.250	3.225	3.165	3.125	3.020	2.870	2.725
<b>95</b>	10.690	13.095	13.120	13.845	14.680	16.070	17.870	21.280	22.945	27.000
<b>100</b>	38.855	39.355	40.705	43.385	46.675	50.790	56.125	62.010	67.180	70.325
<b>105</b>	86.045	80.435	87.240	92.155	97.180	106.015	114.130	121.950	131.515	132.205
<b>110</b>	172.470	168.140	170.110	174.135	191.965	203.105	212.880	221.845	223.055	207.375
<b>115</b>	329.765	324.275	313.015	316.210	321.995	332.060	328.625	317.560	297.295	266.505
<b>120</b>	474.610	467.395	458.365	448.235	442.560	423.770	405.005	378.055	337.000	295.800
<b>125</b>	547.285	542.335	531.615	517.075	501.155	469.120	438.570	398.345	358.080	315.310
<b>130</b>	548.920	547.080	536.900	520.460	498.970	471.865	438.645	402.740	364.305	327.830
<b>135</b>	523.230	522.265	514.420	500.070	480.390	456.145	428.225	398.065	366.445	335.365
<b>140</b>	490.790	490.145	483.700	472.235	456.540	436.915	413.885	389.650	363.730	337.730
<b>145</b>	456.255	455.325	450.440	441.980	429.215	413.790	396.015	375.100	353.805	331.905
<b>150</b>	418.410	417.645	414.140	406.885	396.850	384.280	369.775	353.740	336.945	318.930
<b>155</b>	375.865	375.100	372.670	367.290	360.145	351.040	340.290	328.465	316.135	303.455
<b>160</b>	335.675	335.180	333.140	330.100	325.335	319.600	312.815	304.675	295.780	288.345
<b>165</b>	303.110	302.635	301.410	299.800	297.570	294.365	290.705	286.610	282.115	276.940
<b>170</b>	281.565	281.195	280.545	279.760	278.800	277.665	276.375	274.530	272.585	270.535
<b>175</b>	269.200	269.030	268.840	268.585	268.325	268.040	267.735	267.405	267.060	266.695
<b>180</b>	265.000	265.000	265.000	265.000	265.000	265.000	265.000	265.000	265.000	265.000

**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>	454.830	454.830	454.830	454.830	454.830	454.830	454.830	454.830	454.830
<b>5</b>	456.095	455.500	454.900	454.300	453.710	453.125	452.525	452.000	451.475
<b>10</b>	456.680	453.255	449.885	448.165	446.570	445.095	443.745	442.490	441.460
<b>15</b>	457.355	451.405	445.615	440.025	434.550	431.985	429.790	427.830	426.370
<b>20</b>	457.490	446.580	436.125	428.065	420.490	413.315	410.120	407.410	405.585
<b>25</b>	453.345	439.175	425.170	411.895	401.745	392.735	386.095	382.670	380.520
<b>30</b>	443.560	426.480	409.570	393.725	379.200	368.885	359.770	355.930	353.655
<b>35</b>	426.710	408.620	388.960	370.925	354.915	342.360	332.840	327.735	324.860
<b>40</b>	403.425	383.225	363.250	343.635	327.165	313.550	304.345	298.585	295.650
<b>45</b>	369.980	351.940	332.310	313.240	296.875	284.135	275.375	269.730	267.065
<b>50</b>	330.540	313.695	295.900	278.935	263.625	252.885	245.050	239.865	237.600
<b>55</b>	283.490	269.000	254.825	240.270	228.010	219.235	212.945	208.890	207.840
<b>60</b>	231.450	221.280	208.640	196.580	186.960	180.065	175.615	172.420	171.800

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_207\_BX\_LO\_359\_G1G2.IES**

**CANDELA TABULATION - (Cont.)**

<b>65</b>	176.160	168.250	160.390	153.955	149.035	145.240	143.055	141.725	140.910
<b>70</b>	120.275	119.300	116.555	112.670	109.405	106.955	105.860	105.225	104.615
<b>75</b>	68.220	70.425	71.615	70.370	69.025	68.615	67.220	67.040	68.065
<b>80</b>	28.245	30.080	32.395	36.115	37.690	37.580	36.750	36.565	36.675
<b>85</b>	7.135	7.400	7.780	8.450	8.665	9.120	9.075	9.265	9.810
<b>90</b>	2.495	2.305	2.095	1.885	1.720	1.530	1.340	1.385	1.340
<b>95</b>	28.395	28.470	26.225	20.225	17.645	17.410	18.415	18.945	19.365
<b>100</b>	69.505	66.045	58.435	50.005	45.840	43.615	41.880	41.205	41.575
<b>105</b>	126.710	114.300	97.845	82.605	73.575	68.830	66.350	65.635	66.475
<b>110</b>	180.815	155.375	131.445	111.885	100.795	95.600	93.305	92.615	92.710
<b>115</b>	226.855	187.345	160.180	140.940	128.720	122.250	119.375	118.360	119.155
<b>120</b>	254.485	215.915	188.310	167.445	155.135	148.380	145.230	143.455	142.755
<b>125</b>	275.880	241.745	214.430	192.560	179.230	171.425	166.930	164.385	163.120
<b>130</b>	292.875	263.695	238.650	218.085	202.200	191.905	184.915	180.660	178.755
<b>135</b>	305.955	279.315	255.815	236.225	220.270	208.175	199.810	194.495	192.210
<b>140</b>	312.000	288.670	266.950	247.680	232.310	219.480	210.765	205.355	202.560
<b>145</b>	310.430	290.335	270.890	253.760	239.610	228.440	219.860	215.510	212.870
<b>150</b>	301.910	285.265	269.285	256.395	243.960	236.000	228.365	225.545	223.310
<b>155</b>	290.245	278.230	267.510	256.745	249.395	242.740	237.750	235.375	233.490
<b>160</b>	280.675	272.510	264.460	259.200	253.980	248.740	246.760	244.960	243.510
<b>165</b>	272.250	268.595	264.885	261.160	257.335	255.845	254.520	253.290	252.270
<b>170</b>	268.395	266.180	263.945	262.955	262.015	261.120	260.275	259.475	258.765
<b>175</b>	266.320	265.935	265.540	265.140	264.745	264.345	263.945	263.575	263.210
<b>180</b>	265.000	265.000	265.000	265.000	265.000	265.000	265.000	265.000	265.000

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_207\_BX\_LO\_359\_G1G2.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	175.09	N.A.	6.20
0-30	387.64	N.A.	13.80
0-40	656.46	N.A.	23.30
0-60	1187.06	N.A.	42.20
0-80	1422.33	N.A.	50.50
0-90	1434.26	N.A.	51.00
10-90	1390.58	N.A.	49.40
20-40	481.36	N.A.	17.10
20-50	764.66	N.A.	27.20
40-70	695.73	N.A.	24.70
60-80	235.28	N.A.	8.40
70-80	70.15	N.A.	2.50
80-90	11.93	N.A.	0.40
90-110	131.89	N.A.	4.70
90-120	362.00	N.A.	12.90
90-130	656.93	N.A.	23.30
90-150	1134.51	N.A.	40.30
90-180	1380.59	N.A.	49.00
110-180	1248.7	N.A.	44.40
0-180	2814.85	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	43.68
10-20	131.41
20-30	212.55
30-40	268.82
40-50	283.29
50-60	247.31
60-70	165.13
70-80	70.15
80-90	11.93
90-100	25.40
100-110	106.49
110-120	230.11
120-130	294.93
130-140	268.28
140-150	209.30
150-160	141.30
160-170	79.23
170-180	25.56

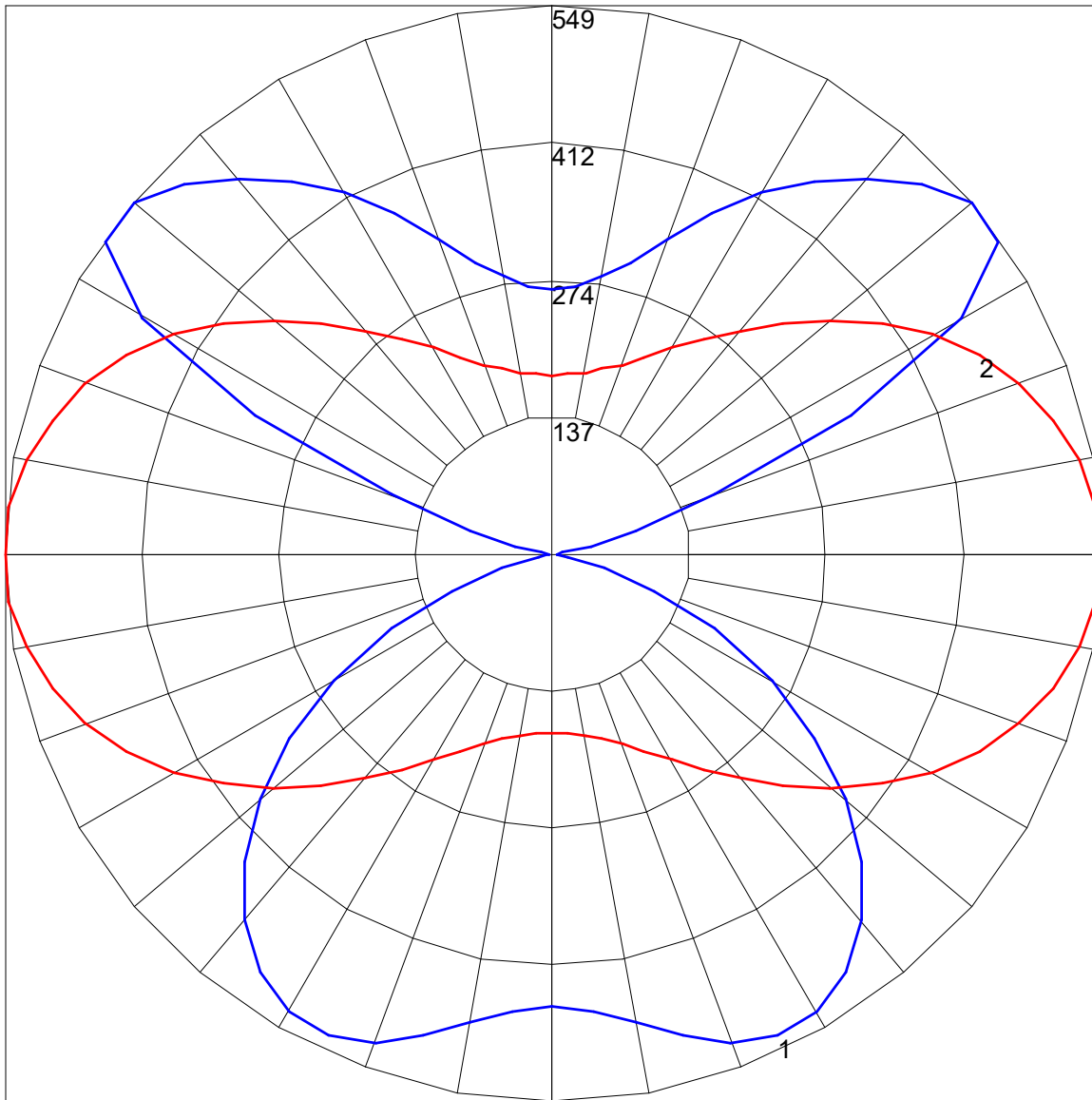
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_207\_BX\_LO\_359\_G1G2.IES**

**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	107	107	107	107	99	99	99	99	84	84	84	70	70	70	57	57	57	51
1	98	94	90	87	91	87	84	81	74	72	69	62	60	59	51	50	49	43
2	89	82	76	71	82	76	71	66	65	61	58	54	52	49	45	43	41	36
3	82	72	65	59	75	67	60	55	57	52	48	48	44	41	40	37	35	31
4	75	64	56	50	69	59	52	47	51	45	41	43	39	35	35	32	30	26
5	68	57	49	42	63	53	45	40	45	40	35	38	34	30	32	28	26	23
6	63	51	43	37	58	47	40	35	41	35	31	34	30	27	29	25	23	20
7	58	46	38	32	53	43	35	30	37	31	27	31	27	23	26	23	20	17
8	54	41	34	28	50	39	32	27	33	28	24	28	24	21	24	20	18	15
9	50	38	30	25	46	35	28	24	30	25	21	26	22	19	22	18	16	14
10	47	34	27	22	43	32	26	21	28	23	19	24	20	17	20	17	14	12

POLAR GRAPH



Maximum Candela = 548.92 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.)