

## IES Report

# BoxRail® | 207 | 120° Flywing, down | 90 CRI | LO

207-BX-XX-4-48-XX-XX-XX-X-X-Z-LO-359-G2-X-AL / WH-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	95	98	100	101
Total Lumens, 4' rail length (1219mm)	1363	1406	1434	1449
Lumens per foot (305mm)	341	351	359	362
Input Power (W), 4' rail length (1219mm)	14.4	14.4	14.4	14.4
Watts per foot (305mm)	3.6	3.6	3.6	3.6
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\_G2.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-G2

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

[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	1434
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	100
Total Luminaire Watts	14.38
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.64
Spacing Criterion (90-270)	1.18
Spacing Criterion (Diagonal)	1.54
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

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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>	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

**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
<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

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fxt
0-20	175.09	N.A.	12.20
0-30	387.64	N.A.	27.00
0-40	656.46	N.A.	45.80
0-60	1187.06	N.A.	82.80
0-80	1422.33	N.A.	99.20
0-90	1434.26	N.A.	100.00
10-90	1390.58	N.A.	97.00
20-40	481.36	N.A.	33.60
20-50	764.66	N.A.	53.30
40-70	695.73	N.A.	48.50
60-80	235.28	N.A.	16.40
70-80	70.15	N.A.	4.90
80-90	11.93	N.A.	0.80
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	1434.26	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	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

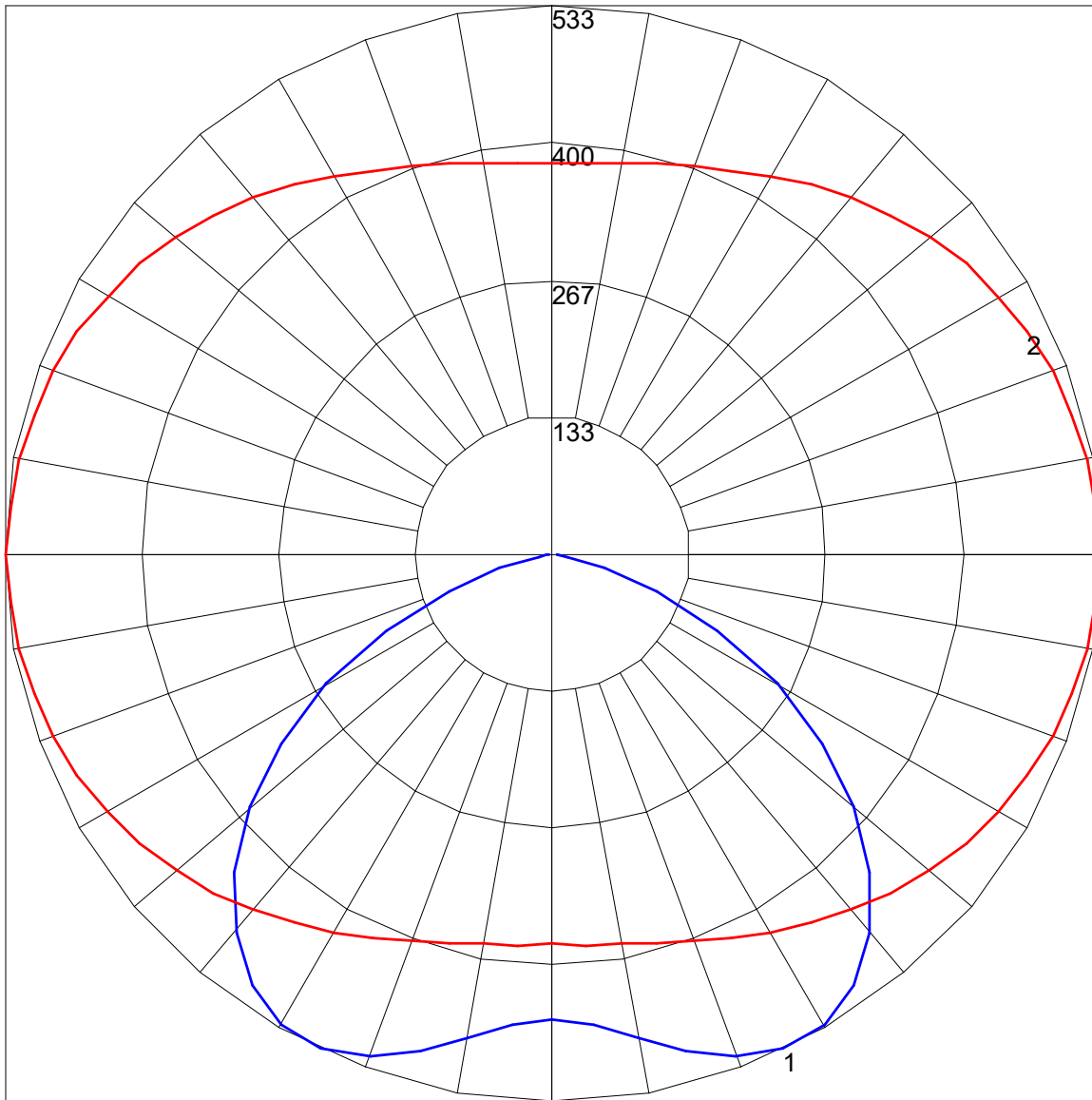
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71
3	91	81	73	66	89	79	72	66	76	70	65	74	68	64	71	66	63	60
4	83	72	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	52
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	44
6	71	57	48	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	26	37	31	26	36	30	26	24

POLAR GRAPH



Maximum Candela = 533.245 Located At Horizontal Angle = 0, Vertical Angle = 25  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)  
# 2 - Horizontal Cone Through Vertical Angle (25) (Through Max. Cd.)