

## IES Report

BoxRail® | 207 | Wide Batwing, up | White Baffle, down | 80 CRI | LO

207-BX-XX-4-48-XX-XX-XX-XX-X-X-Z-LO-35-G1WB-X-AL / WH-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	87	90	91	91
Total Lumens, 4' rail length (1219mm)	2483	2561	2613	2613
Lumens per foot (305mm)	621	640	653	653
Lumens per foot UP (305mm)	375	387	395	395
Lumens per foot DOWN (305mm)	246	253	259	259
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	82	82	82	82

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\_35\_G1WB.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L022010909 (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-35-G1WB

[LUMINAIRE] BoxRail LED, 48", 3500K, 80 CRI, zipper board, wide batwing lens up,

[MORE] white baffle w/clear lens down, low output

[TEST PROCEDURE] IESNA:LM-79-08

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2613
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	91
Total Luminaire Watts	28.76
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)	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	2283	4793	6847
55	1786	2755	5564
65	1297	1549	4400
75	391	598	2918
85	161	174	1067

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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>	787.06	787.06	787.06	787.06	787.06	787.06	787.06	787.06	787.06	787.06
<b>5</b>	781.84	778.94	776.04	773.14	770.82	767.92	765.60	763.28	761.54	759.80
<b>10</b>	772.56	766.76	760.96	755.74	750.52	745.88	741.24	731.38	722.10	713.98
<b>15</b>	758.06	749.94	741.82	734.28	725.58	709.34	694.26	680.34	667.00	654.82
<b>20</b>	734.86	723.84	713.98	701.80	680.92	661.20	642.06	623.50	607.26	590.44
<b>25</b>	705.28	692.52	680.34	656.56	631.62	607.26	582.90	560.86	536.50	513.88
<b>30</b>	672.22	657.14	638.58	607.84	578.26	549.26	519.10	488.36	459.36	430.36
<b>35</b>	622.92	605.52	579.42	546.36	513.30	481.40	448.92	411.22	377.00	343.36
<b>40</b>	368.88	359.02	348.00	346.26	356.70	374.68	356.12	320.16	288.26	254.62
<b>45</b>	102.08	114.84	139.20	160.08	165.30	166.46	203.00	200.10	194.88	182.70
<b>50</b>	88.16	90.48	95.12	100.34	106.72	117.16	125.28	133.40	136.30	135.14
<b>55</b>	79.46	80.62	82.94	86.42	89.32	93.96	98.02	99.18	100.34	101.50
<b>60</b>	71.34	71.34	70.76	69.60	69.60	71.34	71.92	73.08	74.24	75.40
<b>65</b>	55.68	54.52	51.04	49.88	49.30	49.30	49.88	50.46	51.62	53.36
<b>70</b>	32.48	31.32	30.16	30.16	30.74	30.74	30.74	31.32	32.48	34.22
<b>75</b>	15.66	15.08	16.82	16.24	16.24	16.24	16.24	16.24	17.40	18.56
<b>80</b>	9.86	10.44	9.86	9.86	9.28	9.28	8.70	8.70	8.70	8.70
<b>85</b>	5.80	6.38	6.38	6.38	6.38	5.80	5.80	5.22	5.22	4.64
<b>90</b>	2.32	2.32	2.32	2.32	2.32	2.32	2.32	2.32	2.32	2.32
<b>95</b>	12.76	16.24	15.66	16.24	16.82	17.98	19.72	24.36	24.36	26.68
<b>100</b>	52.20	54.52	55.68	58.58	62.06	65.54	69.02	73.66	77.72	77.72
<b>105</b>	121.80	113.68	121.80	125.28	128.18	135.14	139.20	142.68	147.32	145.58
<b>110</b>	224.46	218.66	216.34	218.66	230.26	232.58	233.16	234.90	231.42	218.66
<b>115</b>	360.18	358.44	345.10	339.88	338.72	338.14	331.18	319.58	303.92	283.62
<b>120</b>	465.16	462.26	455.88	444.28	435.00	419.92	404.26	386.86	358.44	328.86
<b>125</b>	535.34	531.86	524.90	515.04	502.86	479.66	459.36	428.62	397.88	363.08
<b>130</b>	567.82	564.34	556.22	542.88	527.22	506.34	479.66	450.08	416.44	381.06
<b>135</b>	569.56	566.66	558.54	545.20	528.38	508.08	481.98	454.72	422.82	390.92
<b>140</b>	551.58	548.68	541.14	529.54	513.88	495.32	472.12	447.18	420.50	392.66
<b>145</b>	521.42	518.52	512.72	502.86	489.52	473.28	455.30	433.84	411.22	388.60
<b>150</b>	484.88	482.56	477.92	470.38	459.94	447.18	432.10	415.86	399.04	379.90
<b>155</b>	447.18	445.44	441.96	436.16	429.20	419.34	408.32	396.72	383.96	371.20
<b>160</b>	411.22	410.64	408.32	404.84	399.62	393.82	386.86	378.74	370.04	361.92
<b>165</b>	381.64	381.06	379.90	378.16	375.26	371.78	367.72	363.66	359.02	353.22
<b>170</b>	359.60	359.60	359.02	357.86	356.70	355.54	354.38	352.64	350.32	348.00
<b>175</b>	346.84	346.84	346.26	346.26	345.68	345.68	345.10	345.10	344.52	343.94
<b>180</b>	342.20	342.20	342.20	342.20	342.20	342.20	342.20	342.20	342.20	342.20

**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>	787.06	787.06	787.06	787.06	787.06	787.06	787.06	787.06	787.06
<b>5</b>	758.06	756.32	755.16	754.58	753.42	753.42	752.84	752.84	753.42
<b>10</b>	706.44	700.06	694.26	689.04	684.98	681.50	679.18	678.02	678.60
<b>15</b>	642.64	632.20	622.34	614.80	609.00	603.78	600.88	599.14	599.72
<b>20</b>	573.62	556.80	542.88	530.12	520.26	512.72	507.50	504.02	504.60
<b>25</b>	493.58	473.28	454.14	438.48	425.14	415.28	408.32	402.52	402.52
<b>30</b>	404.26	381.06	359.60	340.46	324.80	311.46	301.60	295.80	295.22
<b>35</b>	312.04	284.78	264.48	248.24	235.48	226.78	220.40	215.76	214.02
<b>40</b>	230.26	205.90	193.72	188.50	185.02	182.70	180.38	178.06	177.48
<b>45</b>	174.00	167.62	162.40	157.76	154.28	151.96	149.64	147.90	147.32
<b>50</b>	135.72	133.40	130.50	128.18	125.86	123.54	122.38	121.22	120.64
<b>55</b>	102.66	102.08	102.66	102.08	100.92	99.76	98.60	98.02	98.02
<b>60</b>	76.56	77.14	77.72	78.30	78.30	77.72	77.14	76.56	76.56

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**CANDELA TABULATION - (Cont.)**

<b>65</b>	54.52	55.68	56.84	57.42	57.42	58.00	57.42	57.42	58.00
<b>70</b>	35.38	37.70	39.44	38.86	39.44	40.60	40.60	41.76	44.08
<b>75</b>	19.72	20.88	22.62	23.20	23.20	24.36	24.36	24.36	24.36
<b>80</b>	8.70	9.28	9.86	10.44	11.02	11.02	11.60	11.60	11.60
<b>85</b>	4.64	4.64	4.06	4.06	3.48	3.48	3.48	3.48	3.48
<b>90</b>	1.74	1.74	1.74	1.16	1.16	1.16	1.16	1.16	0.58
<b>95</b>	26.68	29.00	29.00	24.94	22.04	22.04	22.62	21.46	21.46
<b>100</b>	77.14	75.98	70.76	63.22	58.58	53.94	49.30	48.14	47.56
<b>105</b>	141.52	132.24	120.06	104.98	92.80	84.10	77.72	74.82	74.24
<b>110</b>	200.10	182.12	161.82	140.94	125.28	114.84	107.30	103.24	103.24
<b>115</b>	256.94	226.78	198.36	175.16	157.18	144.42	135.72	131.08	130.50
<b>120</b>	296.38	262.16	231.42	205.32	185.60	172.26	164.14	158.34	156.02
<b>125</b>	325.38	290.58	259.26	231.42	210.54	197.20	189.08	183.28	180.38
<b>130</b>	346.26	312.62	283.04	256.94	235.48	221.56	210.54	203.00	198.36
<b>135</b>	358.44	328.28	301.02	277.24	257.52	243.02	233.74	227.94	225.04
<b>140</b>	364.82	338.14	314.36	292.90	276.08	262.74	253.46	248.24	245.34
<b>145</b>	365.40	343.94	324.22	306.24	291.74	280.14	272.02	267.38	265.06
<b>150</b>	362.50	346.26	330.02	316.68	303.92	295.80	288.84	285.36	283.62
<b>155</b>	358.44	346.26	334.66	323.64	316.10	309.14	303.92	301.60	299.28
<b>160</b>	353.80	345.10	336.98	331.18	325.38	319.58	317.84	315.52	314.36
<b>165</b>	348.00	343.94	339.88	335.82	331.76	330.02	328.86	327.12	325.96
<b>170</b>	345.68	342.78	340.46	339.30	338.72	337.56	336.40	335.82	335.24
<b>175</b>	343.94	343.36	342.78	342.78	342.20	341.62	341.62	341.04	340.46
<b>180</b>	342.20	342.20	342.20	342.20	342.20	342.20	342.20	342.20	342.20

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	257.78	N.A.	9.90
0-30	500.44	N.A.	19.20
0-40	729.14	N.A.	27.90
0-60	952.22	N.A.	36.40
0-80	1028.2	N.A.	39.30
0-90	1034.06	N.A.	39.60
10-90	962.58	N.A.	36.80
20-40	471.36	N.A.	18.00
20-50	608.01	N.A.	23.30
40-70	276.87	N.A.	10.60
60-80	75.98	N.A.	2.90
70-80	22.19	N.A.	0.80
80-90	5.86	N.A.	0.20
90-110	157.48	N.A.	6.00
90-120	408.77	N.A.	15.60
90-130	725.49	N.A.	27.80
90-150	1273.03	N.A.	48.70
90-180	1579.12	N.A.	60.40
110-180	1421.64	N.A.	54.40
0-180	2613.18	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	71.48
10-20	186.29
20-30	242.66
30-40	228.70
40-50	136.65
50-60	86.43
60-70	53.80
70-80	22.19
80-90	5.86
90-100	29.65
100-110	127.83
110-120	251.29
120-130	316.72
130-140	302.68
140-150	244.85
150-160	172.50
160-170	100.64
170-180	32.95

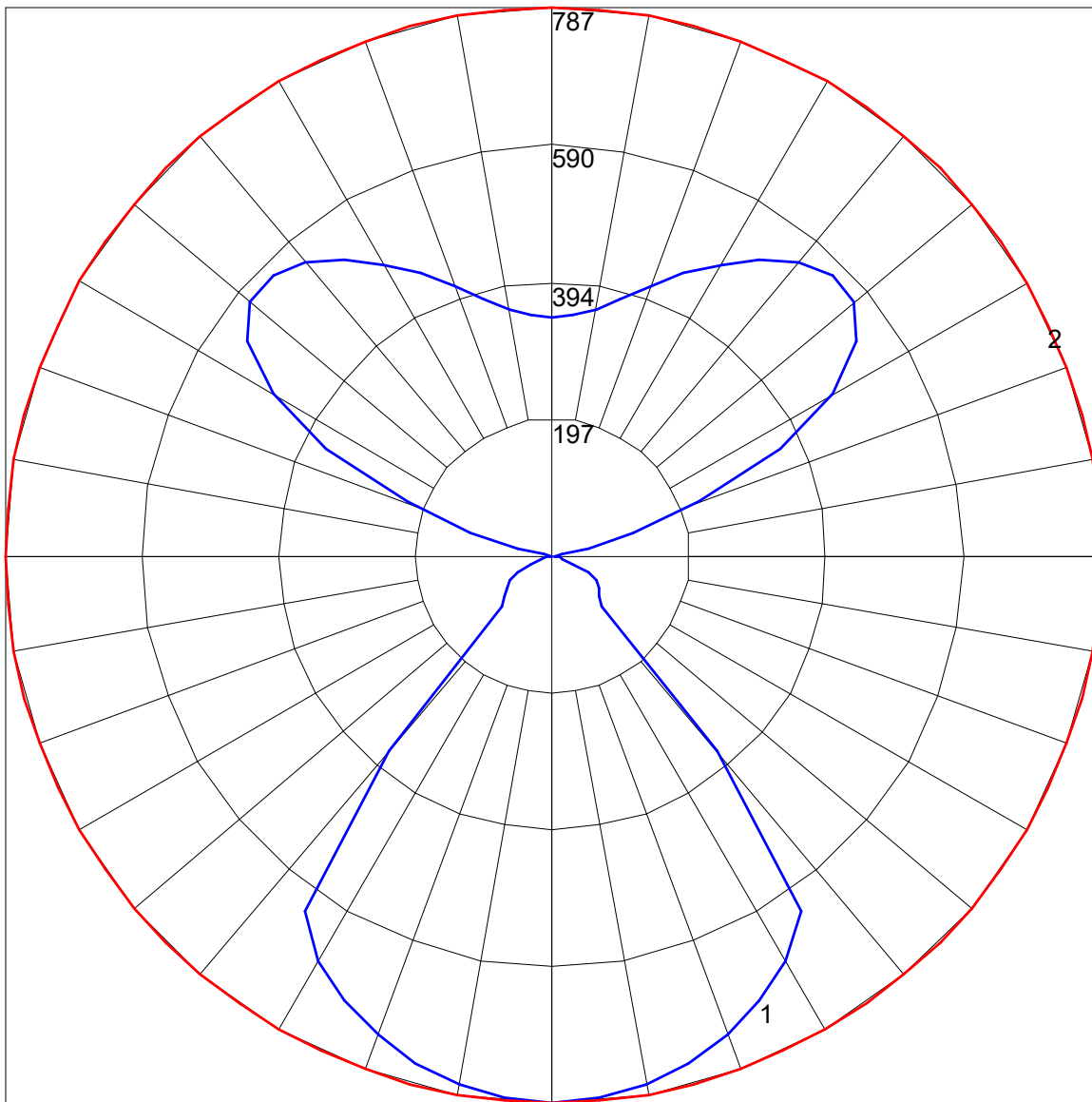
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	105	105	105	105	95	95	95	95	78	78	78	61	61	61	47	47	47	40
1	96	93	89	86	88	85	82	79	69	67	66	56	54	53	43	42	41	35
2	89	82	77	72	81	75	71	67	62	59	56	50	48	46	39	38	37	32
3	82	73	67	62	74	67	62	57	56	52	49	45	43	40	36	34	33	28
4	75	66	59	53	69	60	54	50	51	46	43	41	38	36	33	31	29	25
5	70	59	52	46	64	55	48	43	46	41	38	38	34	32	30	28	26	23
6	65	54	46	41	59	50	43	38	42	37	33	35	31	29	28	26	24	21
7	60	49	41	36	55	45	39	34	38	33	30	32	28	26	26	23	22	19
8	56	45	37	33	51	41	35	31	35	30	27	29	26	23	24	22	20	17
9	52	41	34	29	48	38	32	28	33	28	25	27	24	21	22	20	18	16
10	49	38	31	27	45	35	29	25	30	26	22	26	22	20	21	19	17	15

POLAR GRAPH



Maximum Candela = 787.06 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.)