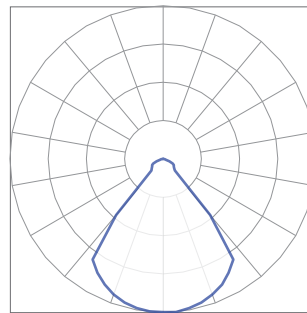


# BoxRail® | 107

107-BX-X-4-48-X-X-X-X-X-Z-LO-359-WB-X-X-X

The performance data in black text is confirmed through third party testing (see the following Light Laboratory report for details). The performance data in grey text is calculated by Vode, for reference only.

Technical Support: (707) 996-9898



## Details

Rail Type / Length	BoxRail, 48"
LED Type	Zipper Board
Lumen Output	Low Output
Color Temperature	3500K, 90+ CRI
Optics	White Baffle

## Performance Summary

	2700K	3000K	3500K	4000K
Color Temperature	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	44	47	47	48
Total Lumens, 4' rail (1219mm)	658	692	692	706
Lumens per foot (305mm)	164	173	173	177
Input Power (W), 4' rail (1219mm)	15.0	15.0	15.0	15.0
Watts per foot (305mm)	3.8	3.8	3.8	3.8
CRI	-	-	96	-

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**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_107\_BX\_LO\_359\_WB.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] L071704206 (SOURCE REPORT FOR REFERENCE)  
[TESTLAB] REPORT BASED ON DATA PRODUCED BY NVLAP ACCREDITED LAB  
[ISSUEDATE] 11/1/2017  
[MANUFAC] Vode Lighting  
[LUMCAT] 107-BX-48-Z-LO-359-WB  
[LUMINAIRE] BoxRail LED, 48", 3500K, 90 CRI, zipper board,  
[MORE] white baffle, low output  
[TEST PROCEDURE] IESNA:LM-79-08

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	692
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	46
Total Luminaire Watts	14.95
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	0.76
Spacing Criterion (Diagonal)	0.98
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.08 ft
Luminous Width (90-270)	3.85 ft
Luminous Height	0.00 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2871	5918	4634
55	2825	3881	3725
65	3076	2907	3034
75	1582	1789	2133
85	1022	1022	1022

CANDELA TABULATION

	<b>0</b>	<b>5</b>	<b>10</b>	<b>15</b>	<b>20</b>	<b>25</b>	<b>30</b>	<b>35</b>	<b>40</b>	<b>45</b>
<b>0</b>	535.50	535.50	535.50	535.50	535.50	535.50	535.50	535.50	535.50	535.50
<b>5</b>	534.48	533.97	533.46	532.95	531.42	529.89	528.36	526.32	524.28	522.24
<b>10</b>	528.87	528.36	525.81	522.24	516.63	511.02	504.90	499.29	493.17	487.56
<b>15</b>	519.69	518.16	512.55	503.88	494.19	484.50	475.32	465.63	456.45	447.78
<b>20</b>	504.90	501.84	492.15	479.40	466.65	452.88	439.62	426.87	413.10	399.33
<b>25</b>	483.99	479.40	465.12	449.82	432.48	415.14	397.80	378.93	361.59	345.78
<b>30</b>	459.00	452.37	434.52	415.14	393.72	372.30	349.86	328.44	307.53	289.17
<b>35</b>	429.42	420.75	399.84	375.87	351.39	325.38	299.88	274.89	250.92	231.03
<b>40</b>	256.02	258.06	265.71	275.91	278.97	267.24	244.29	219.30	193.80	170.85
<b>45</b>	58.14	60.69	65.28	71.40	83.64	102.51	126.48	141.27	133.11	119.85
<b>50</b>	51.00	53.04	56.10	59.67	63.75	69.36	75.99	82.11	85.68	88.23
<b>55</b>	46.41	47.94	49.47	52.02	55.08	58.65	62.22	63.24	63.24	63.75
<b>60</b>	43.86	44.37	44.37	44.88	45.39	46.92	47.43	47.94	48.45	48.45
<b>65</b>	37.23	36.72	36.21	35.19	34.17	34.17	34.17	34.17	34.68	35.19
<b>70</b>	23.97	23.97	23.46	22.44	21.93	21.93	21.93	22.44	22.95	23.46
<b>75</b>	11.73	11.73	11.73	11.73	11.73	11.73	12.24	12.75	12.75	13.26
<b>80</b>	6.12	6.12	6.12	5.61	5.61	5.61	5.61	5.61	6.12	6.12
<b>85</b>	2.55	2.55	2.55	2.55	2.55	2.55	2.55	2.55	2.55	2.55
<b>90</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Vert. Angles      Horizontal Angles

	<b>50</b>	<b>55</b>	<b>60</b>	<b>65</b>	<b>70</b>	<b>75</b>	<b>80</b>	<b>85</b>	<b>90</b>
<b>0</b>	535.50	535.50	535.50	535.50	535.50	535.50	535.50	535.50	535.50
<b>5</b>	521.73	518.67	516.63	515.10	513.57	512.55	512.04	511.53	511.53
<b>10</b>	484.50	478.89	473.79	470.22	467.67	465.12	463.59	462.57	462.06
<b>15</b>	440.64	431.97	423.81	417.18	412.08	407.49	404.43	402.39	401.88
<b>20</b>	386.58	377.40	364.14	355.47	348.33	342.72	338.64	336.60	335.58
<b>25</b>	330.48	316.71	303.45	292.74	283.56	276.42	271.32	268.26	267.24
<b>30</b>	272.34	255.00	240.72	228.48	218.28	210.63	205.02	201.45	200.43
<b>35</b>	210.63	190.74	176.97	163.71	153.51	146.88	142.29	140.25	139.23
<b>40</b>	149.94	135.66	128.52	123.93	120.36	117.81	115.77	114.75	114.24
<b>45</b>	113.22	108.12	104.55	101.49	98.43	96.39	94.86	94.35	93.84
<b>50</b>	87.72	85.68	83.64	81.60	80.07	78.54	77.52	76.50	76.50
<b>55</b>	64.77	65.28	65.28	64.26	63.24	62.73	62.22	61.71	61.20
<b>60</b>	48.96	48.96	49.47	49.47	49.47	49.47	48.96	48.96	48.45
<b>65</b>	35.70	35.70	36.21	36.72	36.72	37.23	37.23	36.72	36.72
<b>70</b>	23.97	24.48	24.99	25.50	25.50	26.01	26.01	26.01	26.01
<b>75</b>	13.77	14.79	14.79	15.30	15.81	15.81	16.32	16.32	15.81
<b>80</b>	6.63	6.63	7.14	7.65	7.65	7.65	8.16	8.16	8.16
<b>85</b>	2.55	2.55	2.55	2.55	2.55	2.55	2.55	2.55	2.55
<b>90</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_107\_BX\_LO\_359\_WB.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	175.97	N.A.	25.40
0-30	340.31	N.A.	49.20
0-40	495.75	N.A.	71.60
0-60	638.26	N.A.	92.20
0-80	688.97	N.A.	99.50
0-90	692.16	N.A.	100.00
10-90	643.22	N.A.	92.90
20-40	319.78	N.A.	46.20
20-50	408.09	N.A.	59.00
40-70	177.93	N.A.	25.70
60-80	50.70	N.A.	7.30
70-80	15.29	N.A.	2.20
80-90	3.19	N.A.	0.50
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	692.16	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	48.94
10-20	127.03
20-30	164.34
30-40	155.44
40-50	88.31
50-60	54.20
60-70	35.42
70-80	15.29
80-90	3.19
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

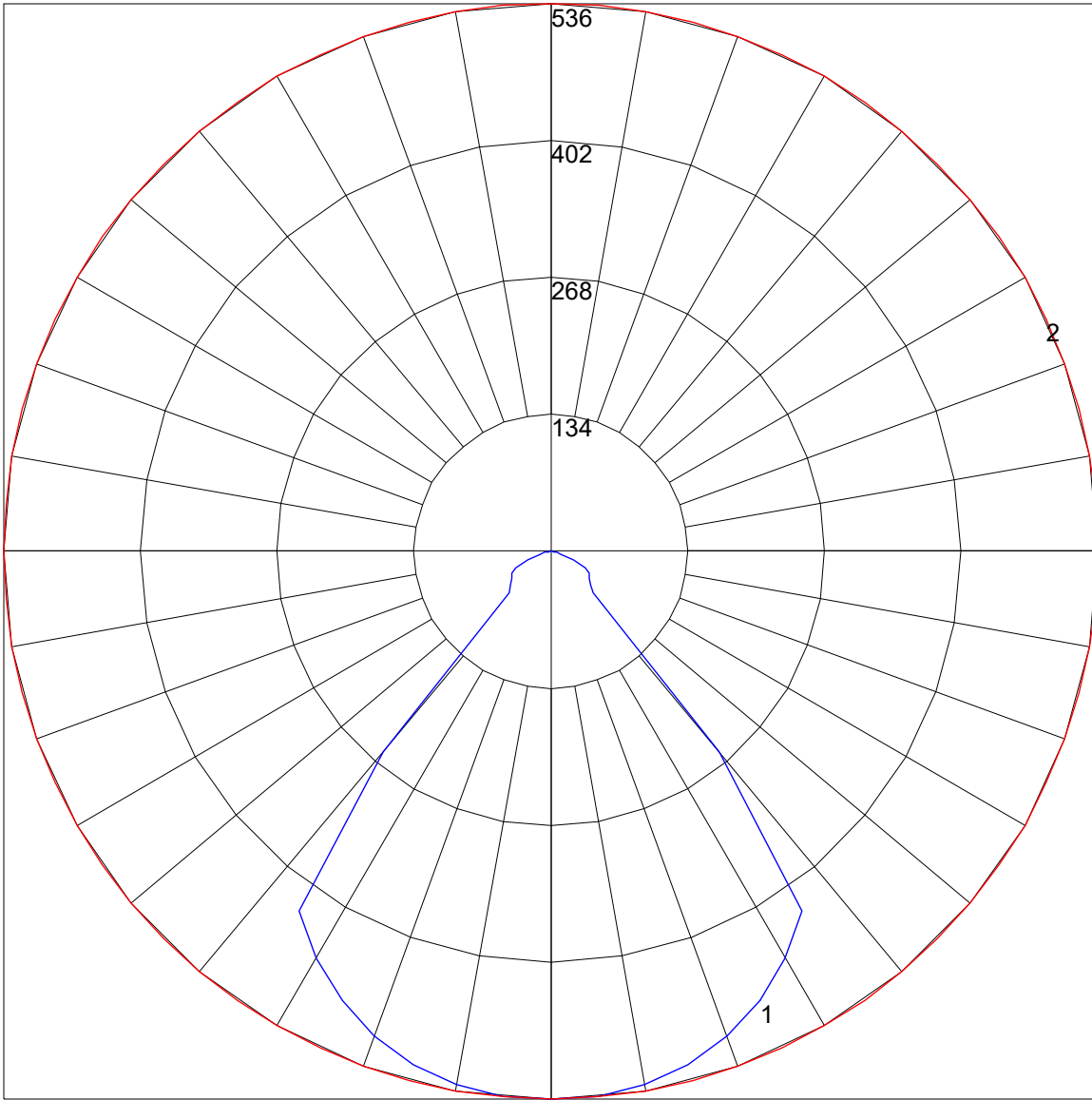
**IES INDOOR REPORT**  
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	112	108	105	102	109	106	103	100	102	99	97	98	96	94	95	93	92	90
2	104	98	93	88	102	96	91	87	93	89	85	90	86	84	87	84	82	80
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	76	73	72
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58
6	80	69	62	56	78	68	61	56	66	60	56	65	59	55	63	59	55	53
7	75	64	56	51	73	63	56	51	62	55	51	60	55	51	59	54	50	49
8	71	59	52	47	69	59	52	47	57	51	47	56	51	47	55	50	46	45
9	67	55	48	44	65	55	48	43	54	48	43	53	47	43	52	47	43	41
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	49	44	40	38

POLAR GRAPH



Maximum Candela = 535.5 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.)