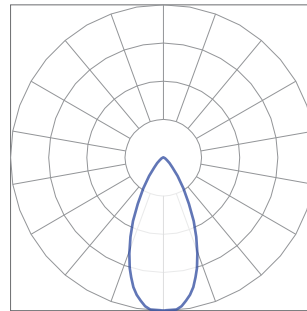
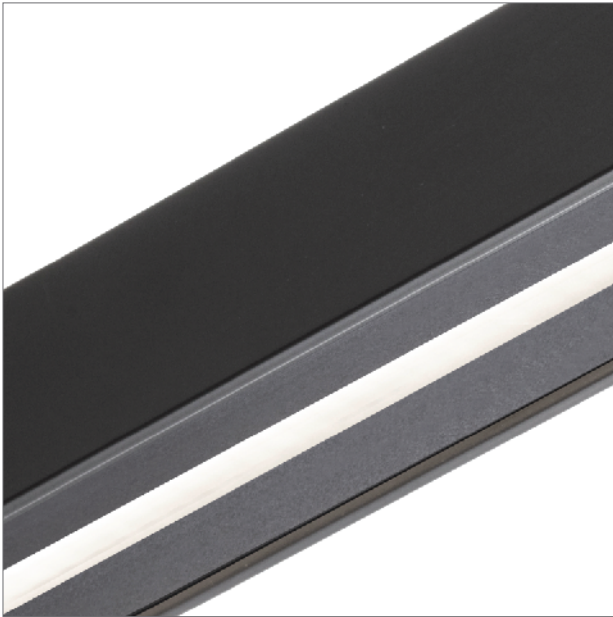


# BoxRail® | 107

107-BX-X-4-48-X-X-X-X-X-Z-LO-359-S2-X-BL-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	60° Black Symmetric Lens

## Performance Summary

	2700K	3000K	3500K	4000K
Color Temperature	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	33	34	35	36
Total Lumens, 4' rail (1219mm)	491	506	517	527
Lumens per foot (305mm)	123	127	129	132
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\_S2-BL.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] L071704212 (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-S2-BL  
 [LUMINAIRE] BoxRail LED, 48", 3500K, 90 CRI, zipper board,  
 [MORE] 60° black symmetric lens, low output  
 [TEST PROCEDURE] IESNA:LM-79-08

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	517
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	35
Total Luminaire Watts	14.95
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.78
Spacing Criterion (90-270)	1.14
Spacing Criterion (Diagonal)	0.88
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.02 ft
Luminous Width (90-270)	3.83 ft
Luminous Height	0.00 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	6531	13011	35541
55	3246	6366	19723
65	1864	3727	10334
75	1383	2490	5809
85	0	822	3286

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_107\_BX\_LO\_359\_S2-BL.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>0.0</b>	465.63	465.63	465.63	465.63	465.63	465.63	465.63	465.63	465.63	465.63
<b>1.0</b>	464.10	463.59	463.59	464.10	464.61	464.61	465.12	465.12	465.12	465.12
<b>3.0</b>	463.59	463.59	463.08	462.06	462.06	462.57	463.59	463.59	464.10	464.10
<b>5.0</b>	463.59	462.57	460.02	457.98	456.96	458.49	459.00	459.51	460.02	460.53
<b>7.0</b>	455.94	455.43	452.37	448.29	446.76	447.78	449.31	450.33	451.86	452.88
<b>9.0</b>	441.15	438.60	434.52	430.44	431.46	434.01	436.56	438.09	440.64	443.19
<b>11.0</b>	425.34	424.83	417.69	414.12	412.08	417.18	419.22	422.79	426.87	429.93
<b>13.0</b>	404.43	399.33	394.74	390.66	389.64	392.70	398.31	404.43	408.51	414.12
<b>15.0</b>	376.38	371.79	363.63	362.10	363.12	368.73	376.38	382.50	390.66	396.78
<b>17.0</b>	351.39	348.84	339.15	333.03	336.09	344.76	352.41	361.08	368.73	377.91
<b>19.5</b>	310.08	307.53	297.84	295.29	295.80	302.94	314.16	324.87	336.60	347.31
<b>22.5</b>	261.12	256.53	247.86	244.80	249.90	259.08	270.30	283.05	296.82	311.10
<b>25.5</b>	213.69	206.55	200.43	195.33	204.51	214.20	224.40	238.68	254.49	269.28
<b>29.0</b>	160.14	158.10	152.49	149.43	154.53	163.71	175.44	189.72	207.06	222.36
<b>33.0</b>	111.18	108.63	104.04	103.53	108.63	117.30	126.99	139.74	155.04	171.87
<b>37.5</b>	70.38	70.38	65.79	65.79	70.38	76.50	84.66	94.35	107.10	121.89
<b>42.5</b>	40.80	41.31	39.78	39.27	42.33	46.92	52.02	59.16	68.34	80.07
<b>47.5</b>	24.99	23.97	23.46	23.97	25.50	28.56	32.13	37.23	43.35	51.00
<b>55.0</b>	13.26	12.75	12.24	12.24	13.26	14.79	16.32	18.87	21.93	26.01
<b>65.0</b>	5.61	5.61	5.61	5.61	6.12	6.63	7.14	8.16	9.18	11.22
<b>75.0</b>	2.55	2.55	2.55	2.55	2.55	2.55	3.06	3.57	3.57	4.59
<b>85.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.51
<b>90.0</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**

	<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>0.0</b>	465.63	465.63	465.63	465.63	465.63	465.63	465.63	465.63	465.63
<b>1.0</b>	465.12	465.12	465.12	465.63	465.63	465.63	465.63	465.63	465.12
<b>3.0</b>	464.61	464.61	464.61	465.12	465.12	465.12	465.63	465.12	465.63
<b>5.0</b>	461.04	461.55	462.06	462.57	463.08	463.59	464.10	464.10	464.61
<b>7.0</b>	454.41	455.43	456.96	457.98	459.00	460.02	461.04	461.55	462.06
<b>9.0</b>	445.74	448.29	450.84	452.88	454.92	456.45	457.47	458.49	458.49
<b>11.0</b>	434.01	437.58	441.15	444.72	447.27	449.82	452.37	453.39	453.90
<b>13.0</b>	419.22	424.83	430.44	435.03	439.11	442.68	445.74	447.27	447.78
<b>15.0</b>	404.43	411.57	418.71	425.34	431.46	435.54	439.11	441.15	442.17
<b>17.0</b>	387.09	396.27	404.94	413.10	420.24	425.85	430.44	433.50	434.01
<b>19.5</b>	360.06	371.79	383.01	393.72	403.41	411.06	417.18	420.75	422.28
<b>22.5</b>	325.38	340.17	355.47	369.75	381.99	392.19	399.33	404.43	405.96
<b>25.5</b>	287.64	306.00	323.34	340.17	354.96	367.71	377.40	383.01	385.05
<b>29.0</b>	242.25	262.65	283.05	303.45	321.30	336.09	347.31	354.45	356.49
<b>33.0</b>	190.74	212.67	235.62	257.55	277.44	294.27	308.04	315.69	318.24
<b>37.5</b>	140.25	159.63	181.05	203.49	224.40	242.25	257.04	265.71	268.77
<b>42.5</b>	94.35	109.65	127.50	147.90	163.71	182.58	196.35	205.02	207.57
<b>47.5</b>	60.69	72.93	86.19	100.98	115.77	129.54	140.25	147.39	150.45
<b>55.0</b>	31.11	37.23	44.37	52.53	60.18	68.34	74.97	79.05	80.58
<b>65.0</b>	12.75	15.30	17.85	20.91	23.97	26.52	29.07	30.60	31.11
<b>75.0</b>	5.10	5.61	6.63	7.65	8.67	9.18	10.20	10.71	10.71
<b>85.0</b>	0.51	1.02	1.53	1.53	1.53	2.04	2.04	2.04	2.04
<b>90.0</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\_S2-BL.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	148.14	N.A.	28.70
0-30	273.22	N.A.	52.90
0-40	369.48	N.A.	71.50
0-60	478.96	N.A.	92.70
0-80	513.02	N.A.	99.30
0-90	516.58	N.A.	100.00
10-90	481.28	N.A.	93.20
20-40	221.35	N.A.	42.80
20-50	297.46	N.A.	57.60
40-70	133.29	N.A.	25.80
60-80	34.06	N.A.	6.60
70-80	10.25	N.A.	2.00
80-90	3.56	N.A.	0.70
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	516.58	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	35.29
10-20	112.84
20-30	125.09
30-40	96.26
40-50	76.11
50-60	33.36
60-70	23.81
70-80	10.25
80-90	3.56
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

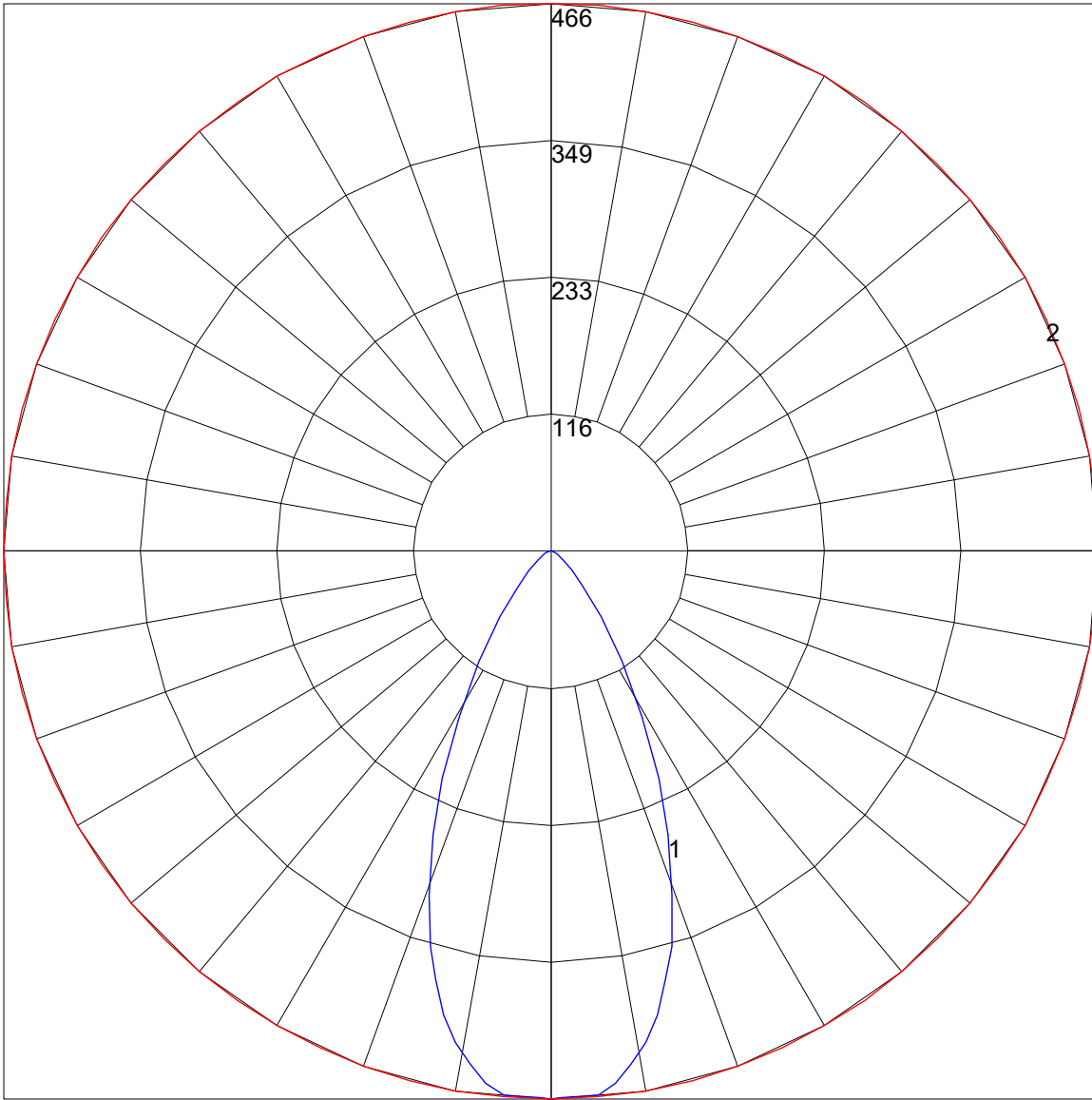
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	112	108	105	102	109	106	103	101	102	100	97	98	96	95	95	93	92	90
2	104	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	80
3	98	90	84	79	96	88	83	78	85	81	77	83	79	75	81	77	74	72
4	91	82	75	70	89	81	75	70	79	73	69	77	72	68	75	71	67	65
5	86	76	69	63	84	75	68	63	73	67	62	71	66	62	69	65	61	60
6	81	70	63	58	79	69	62	57	67	61	57	66	61	57	65	60	56	54
7	76	65	58	53	74	64	57	53	63	57	52	61	56	52	60	55	52	50
8	72	60	53	49	70	60	53	49	59	53	48	58	52	48	56	52	48	46
9	68	56	50	45	66	56	49	45	55	49	45	54	48	45	53	48	44	43
10	64	53	46	42	63	52	46	42	52	46	42	51	45	42	50	45	41	40

POLAR GRAPH



Maximum Candela = 465.63 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.)