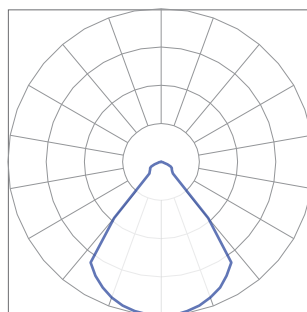


# BoxRail® | 107

107-BX-X-4-48-X-X-X-X-X-Z-SO-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	Standard 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	55	57	58	59
Total Lumens, 4' rail (1219mm)	1315	1357	1384	1412
Lumens per foot (305mm)	329	339	346	353
Input Power (W), 4' rail (1219mm)	24.1	24.1	24.1	24.1
Watts per foot (305mm)	6.1	6.1	6.1	6.1
CRI	-	-	96	-

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**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_107\_BX\_SO\_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-SO-359-WB  
[LUMINAIRE] BoxRail LED, 48", 3500K, 90 CRI, zipper board,  
[MORE] white baffle, standard output  
[TEST PROCEDURE] IESNA:LM-79-08

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1384
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	57
Total Luminaire Watts	24.09
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	5742	11836	9267
55	5650	7761	7451
65	6152	5815	6067
75	3165	3578	4266
85	2043	2043	2043

**IES INDOOR REPORT**  
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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>	1071.00	1071.00	1071.00	1071.00	1071.00	1071.00	1071.00	1071.00	1071.00	1071.00
<b>5</b>	1068.96	1067.94	1066.92	1065.90	1062.84	1059.78	1056.72	1052.64	1048.56	1044.48
<b>10</b>	1057.74	1056.72	1051.62	1044.48	1033.26	1022.04	1009.80	998.58	986.34	975.12
<b>15</b>	1039.38	1036.32	1025.10	1007.76	988.38	969.00	950.64	931.26	912.90	895.56
<b>20</b>	1009.80	1003.68	984.30	958.80	933.30	905.76	879.24	853.74	826.20	798.66
<b>25</b>	967.98	958.80	930.24	899.64	864.96	830.28	795.60	757.86	723.18	691.56
<b>30</b>	918.00	904.74	869.04	830.28	787.44	744.60	699.72	656.88	615.06	578.34
<b>35</b>	858.84	841.50	799.68	751.74	702.78	650.76	599.76	549.78	501.84	462.06
<b>40</b>	512.04	516.12	531.42	551.82	557.94	534.48	488.58	438.60	387.60	341.70
<b>45</b>	116.28	121.38	130.56	142.80	167.28	205.02	252.96	282.54	266.22	239.70
<b>50</b>	102.00	106.08	112.20	119.34	127.50	138.72	151.98	164.22	171.36	176.46
<b>55</b>	92.82	95.88	98.94	104.04	110.16	117.30	124.44	126.48	126.48	127.50
<b>60</b>	87.72	88.74	88.74	89.76	90.78	93.84	94.86	95.88	96.90	96.90
<b>65</b>	74.46	73.44	72.42	70.38	68.34	68.34	68.34	68.34	69.36	70.38
<b>70</b>	47.94	47.94	46.92	44.88	43.86	43.86	43.86	44.88	45.90	46.92
<b>75</b>	23.46	23.46	23.46	23.46	23.46	23.46	24.48	25.50	25.50	26.52
<b>80</b>	12.24	12.24	12.24	11.22	11.22	11.22	11.22	11.22	12.24	12.24
<b>85</b>	5.10	5.10	5.10	5.10	5.10	5.10	5.10	5.10	5.10	5.10
<b>90</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Vert. 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>	1071.00	1071.00	1071.00	1071.00	1071.00	1071.00	1071.00	1071.00	1071.00
<b>5</b>	1043.46	1037.34	1033.26	1030.20	1027.14	1025.10	1024.08	1023.06	1023.06
<b>10</b>	969.00	957.78	947.58	940.44	935.34	930.24	927.18	925.14	924.12
<b>15</b>	881.28	863.94	847.62	834.36	824.16	814.98	808.86	804.78	803.76
<b>20</b>	773.16	754.80	728.28	710.94	696.66	685.44	677.28	673.20	671.16
<b>25</b>	660.96	633.42	606.90	585.48	567.12	552.84	542.64	536.52	534.48
<b>30</b>	544.68	510.00	481.44	456.96	436.56	421.26	410.04	402.90	400.86
<b>35</b>	421.26	381.48	353.94	327.42	307.02	293.76	284.58	280.50	278.46
<b>40</b>	299.88	271.32	257.04	247.86	240.72	235.62	231.54	229.50	228.48
<b>45</b>	226.44	216.24	209.10	202.98	196.86	192.78	189.72	188.70	187.68
<b>50</b>	175.44	171.36	167.28	163.20	160.14	157.08	155.04	153.00	153.00
<b>55</b>	129.54	130.56	130.56	128.52	126.48	125.46	124.44	123.42	122.40
<b>60</b>	97.92	97.92	98.94	98.94	98.94	98.94	97.92	97.92	96.90
<b>65</b>	71.40	71.40	72.42	73.44	73.44	74.46	74.46	73.44	73.44
<b>70</b>	47.94	48.96	49.98	51.00	51.00	52.02	52.02	52.02	52.02
<b>75</b>	27.54	29.58	29.58	30.60	31.62	31.62	32.64	32.64	31.62
<b>80</b>	13.26	13.26	14.28	15.30	15.30	15.30	16.32	16.32	16.32
<b>85</b>	5.10	5.10	5.10	5.10	5.10	5.10	5.10	5.10	5.10
<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\_SO\_359\_WB.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	351.93	N.A.	25.40
0-30	680.62	N.A.	49.20
0-40	991.50	N.A.	71.60
0-60	1276.53	N.A.	92.20
0-80	1377.93	N.A.	99.50
0-90	1384.32	N.A.	100.00
10-90	1286.45	N.A.	92.90
20-40	639.57	N.A.	46.20
20-50	816.19	N.A.	59.00
40-70	355.86	N.A.	25.70
60-80	101.41	N.A.	7.30
70-80	30.57	N.A.	2.20
80-90	6.39	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	1384.32	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	97.87
10-20	254.06
20-30	328.68
30-40	310.89
40-50	176.62
50-60	108.40
60-70	70.84
70-80	30.57
80-90	6.39
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

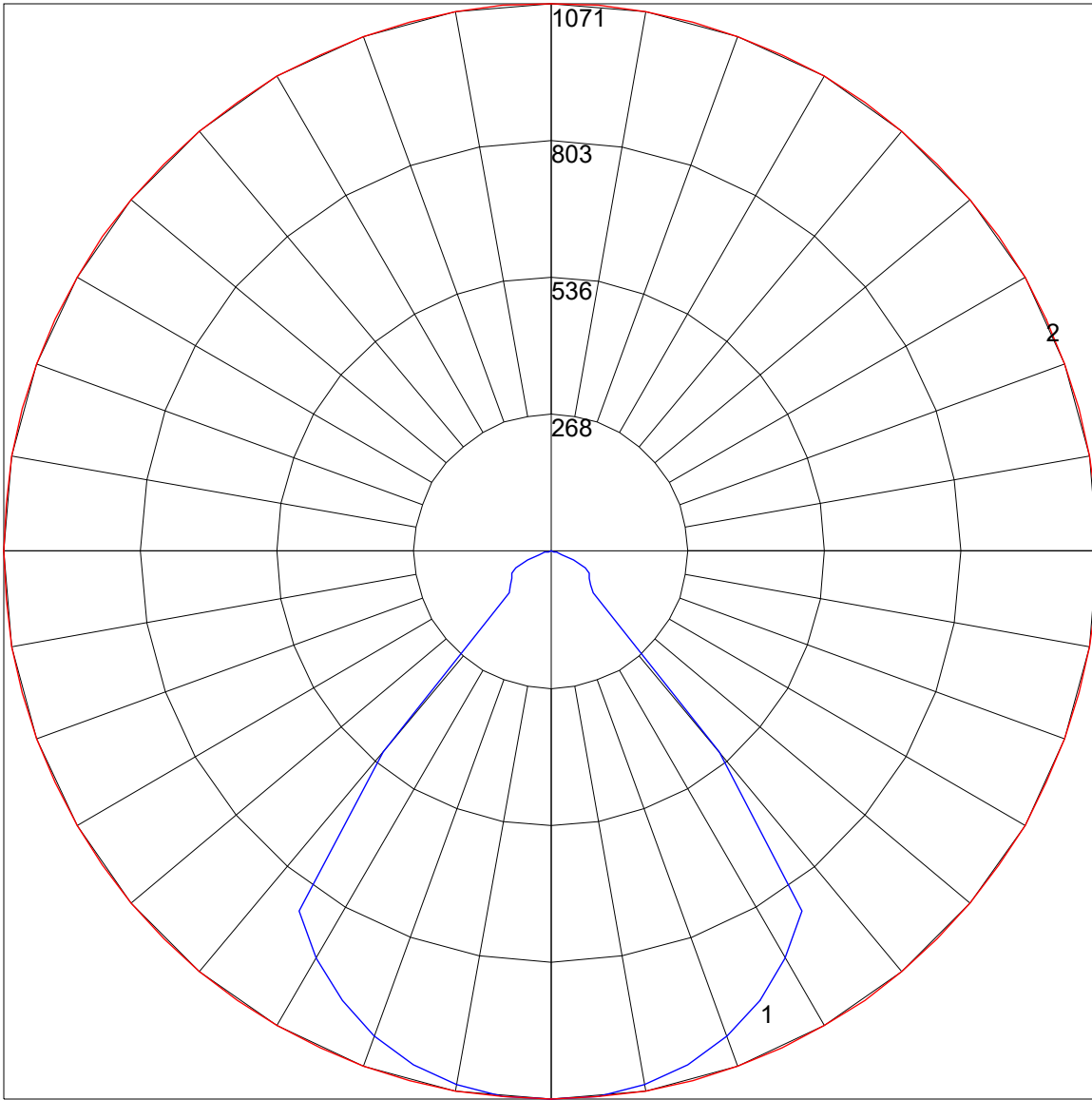
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_107\_BX\_SO\_359\_WB.IES**

**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	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 = 1071 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.)