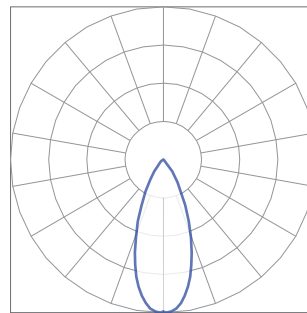
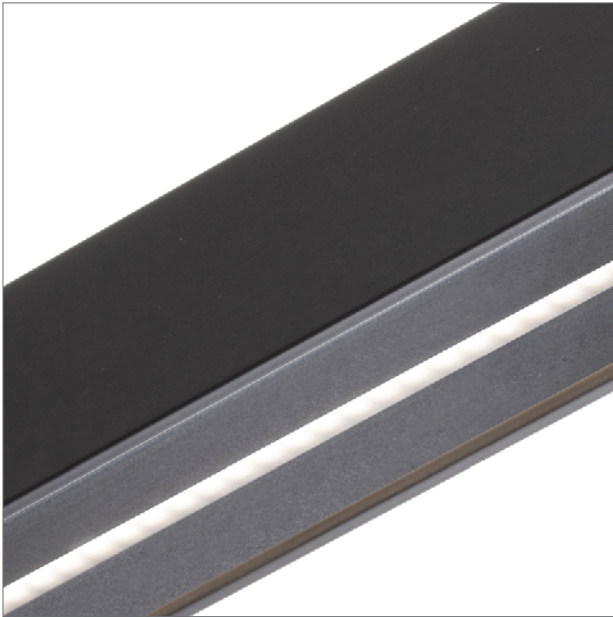


# BoxRail® | 107

107-BX-X-4-48-X-X-X-X-X-Z-HO-35-S1-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	High Output
Color Temperature	3500K, 80+ CRI
Optics	40° Black Symmetric Lens

## Performance Summary

	2700K	3000K	3500K	4000K
Color Temperature	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	37	38	39	39
Total Lumens, 4' rail (1219mm)	1781	1837	1874	1912
Lumens per foot (305mm)	445	459	469	478
Input Power (W), 4' rail (1219mm)	49.2	49.2	49.2	49.2
Watts per foot (305mm)	12.4	12.4	12.4	12.4
CRI	-	-	85	-

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**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_107\_BX\_HO\_35\_S1-BL.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] L071704211 (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-HO-35-S1-BL  
[LUMINAIRE] BoxRail LED, 48", 3500K, 80 CRI, zipper board,  
[MORE] 40° black symmetric lens, high output  
[TEST PROCEDURE] IESNA:LM-79-08

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1876
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	38
Total Luminaire Watts	49.22
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.66
Spacing Criterion (90-270)	1.16
Spacing Criterion (Diagonal)	0.82
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	14742	36407	148980
55	6609	15971	81506
65	4485	8969	41108
75	2441	6102	23189
85	0	0	10873

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_107\_BX\_HO\_35\_S1-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>	1899.00	1899.00	1899.00	1899.00	1899.00	1899.00	1899.00	1899.00	1899.00	1899.00
<b>1.0</b>	1908.00	1908.00	1908.00	1908.00	1912.50	1912.50	1910.25	1910.25	1908.00	1908.00
<b>3.0</b>	1901.25	1901.25	1901.25	1901.25	1901.25	1899.00	1899.00	1899.00	1899.00	1899.00
<b>5.0</b>	1874.25	1874.25	1874.25	1874.25	1869.75	1872.00	1872.00	1874.25	1876.50	1881.00
<b>7.0</b>	1811.25	1811.25	1813.50	1815.75	1806.75	1811.25	1818.00	1824.75	1831.50	1840.50
<b>9.0</b>	1728.00	1728.00	1732.50	1737.00	1723.50	1732.50	1748.25	1759.50	1773.00	1788.75
<b>11.0</b>	1620.00	1620.00	1626.75	1633.50	1617.75	1640.25	1658.25	1678.50	1698.75	1721.25
<b>13.0</b>	1489.50	1491.75	1500.75	1518.75	1503.00	1525.50	1554.75	1581.75	1613.25	1644.75
<b>15.0</b>	1347.75	1350.00	1359.00	1363.50	1361.25	1390.50	1433.25	1469.25	1509.75	1550.25
<b>17.0</b>	1194.75	1199.25	1210.50	1208.25	1219.50	1262.25	1300.50	1343.25	1392.75	1444.50
<b>19.5</b>	981.00	994.50	1019.25	1039.50	1030.50	1073.25	1118.25	1181.25	1242.00	1305.00
<b>22.5</b>	785.25	789.75	810.00	812.25	832.50	875.25	924.75	985.50	1057.50	1131.75
<b>25.5</b>	591.75	596.25	609.75	614.25	639.00	684.00	735.75	798.75	870.75	954.00
<b>29.0</b>	420.75	429.75	434.25	452.25	456.75	495.00	542.25	600.75	672.75	753.75
<b>33.0</b>	265.50	272.25	279.00	285.75	299.25	330.75	366.75	416.25	477.00	546.75
<b>37.5</b>	157.50	162.00	168.75	168.75	182.25	204.75	231.75	265.50	315.00	371.25
<b>42.5</b>	94.50	94.50	96.75	101.25	101.25	114.75	130.50	155.25	186.75	227.25
<b>47.5</b>	54.00	54.00	56.25	60.75	60.75	69.75	81.00	94.50	112.50	139.50
<b>55.0</b>	27.00	27.00	27.00	29.25	29.25	33.75	38.25	45.00	54.00	65.25
<b>65.0</b>	13.50	13.50	13.50	13.50	13.50	15.75	15.75	18.00	22.50	27.00
<b>75.0</b>	4.50	4.50	6.75	6.75	6.75	6.75	6.75	9.00	9.00	11.25
<b>85.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<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>	1899.00	1899.00	1899.00	1899.00	1899.00	1899.00	1899.00	1899.00	1899.00
<b>1.0</b>	1908.00	1912.50	1910.25	1910.25	1910.25	1910.25	1910.25	1910.25	1910.25
<b>3.0</b>	1899.00	1899.00	1901.25	1901.25	1903.50	1903.50	1903.50	1903.50	1903.50
<b>5.0</b>	1883.25	1885.50	1890.00	1892.25	1894.50	1896.75	1899.00	1901.25	1901.25
<b>7.0</b>	1849.50	1856.25	1865.25	1869.75	1881.00	1885.50	1890.00	1892.25	1892.25
<b>9.0</b>	1804.50	1818.00	1831.50	1842.75	1854.00	1863.00	1872.00	1876.50	1881.00
<b>11.0</b>	1746.00	1766.25	1788.75	1806.75	1824.75	1838.25	1849.50	1856.25	1863.00
<b>13.0</b>	1676.25	1707.75	1743.75	1768.50	1793.25	1813.50	1827.00	1836.00	1840.50
<b>15.0</b>	1595.25	1638.00	1676.25	1712.25	1752.75	1782.00	1802.25	1813.50	1815.75
<b>17.0</b>	1503.00	1557.00	1604.25	1658.25	1701.00	1734.75	1761.75	1777.50	1784.25
<b>19.5</b>	1372.50	1455.75	1523.25	1575.00	1633.50	1678.50	1716.75	1737.00	1750.50
<b>22.5</b>	1217.25	1298.25	1381.50	1455.75	1523.25	1584.00	1629.00	1656.00	1665.00
<b>25.5</b>	1046.25	1140.75	1226.25	1320.75	1417.50	1491.75	1545.75	1579.50	1590.75
<b>29.0</b>	852.75	956.25	1062.00	1163.25	1271.25	1359.00	1426.50	1469.25	1482.75
<b>33.0</b>	639.00	738.00	848.25	954.00	1066.50	1179.00	1257.75	1307.25	1323.00
<b>37.5</b>	443.25	533.25	634.50	733.50	846.00	940.50	1037.25	1095.75	1118.25
<b>42.5</b>	279.00	348.75	432.00	515.25	618.75	717.75	801.00	848.25	873.00
<b>47.5</b>	173.25	220.50	276.75	342.00	418.50	499.50	564.75	609.75	627.75
<b>55.0</b>	83.25	105.75	135.00	171.00	211.50	254.25	294.75	324.00	333.00
<b>65.0</b>	33.75	40.50	51.75	63.00	78.75	94.50	110.25	121.50	123.75
<b>75.0</b>	13.50	15.75	20.25	22.50	27.00	33.75	38.25	40.50	42.75
<b>85.0</b>	0.00	2.25	2.25	4.50	4.50	6.75	6.75	6.75	6.75
<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\_HO\_35\_S1-BL.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	584.94	N.A.	31.20
0-30	1044.66	N.A.	55.70
0-40	1382.95	N.A.	73.70
0-60	1756.09	N.A.	93.60
0-80	1865.09	N.A.	99.40
0-90	1875.84	N.A.	100.00
10-90	1732.21	N.A.	92.30
20-40	798.01	N.A.	42.50
20-50	1059.28	N.A.	56.50
40-70	450.18	N.A.	24.00
60-80	109.00	N.A.	5.80
70-80	31.97	N.A.	1.70
80-90	10.74	N.A.	0.60
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	1875.84	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	143.63
10-20	441.31
20-30	459.72
30-40	338.29
40-50	261.27
50-60	111.87
60-70	77.04
70-80	31.97
80-90	10.74
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

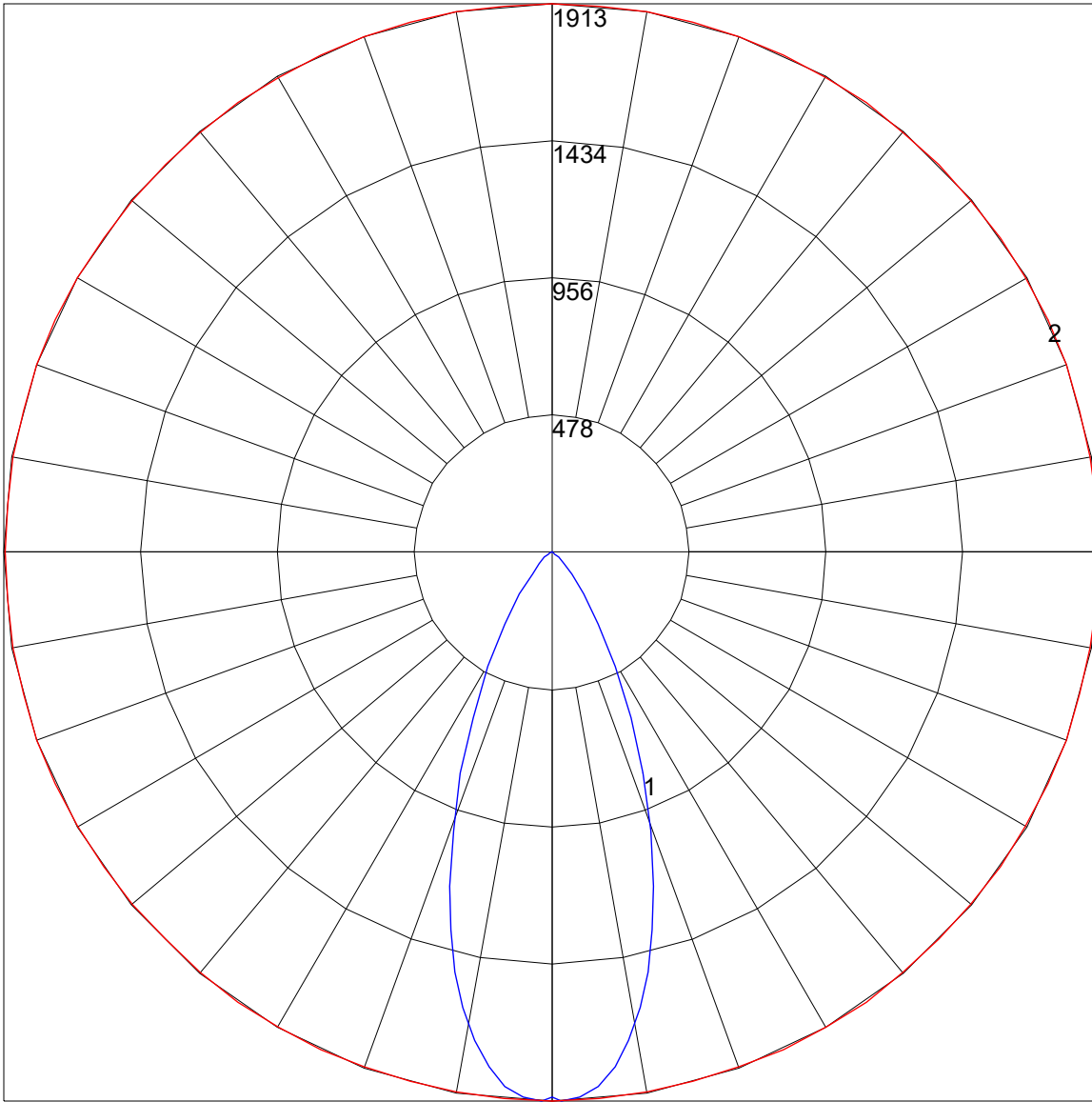
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_107\_BX\_HO\_35\_S1-BL.IES**

**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	109	106	103	109	106	104	101	102	100	98	99	97	95	95	94	92	90
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	81
3	98	91	85	80	96	89	84	79	86	82	78	84	80	77	82	78	75	74
4	92	83	77	72	90	82	76	71	80	75	70	78	73	70	76	72	69	67
5	87	77	70	65	85	76	69	65	74	68	64	72	67	63	71	66	63	61
6	82	71	64	59	80	70	64	59	69	63	59	67	62	58	66	61	58	56
7	77	66	59	55	76	66	59	54	64	58	54	63	58	54	62	57	53	52
8	73	62	55	50	72	61	55	50	60	54	50	59	54	50	58	53	50	48
9	69	58	51	47	68	58	51	47	56	51	47	56	50	46	55	50	46	45
10	65	55	48	44	64	54	48	44	53	47	43	52	47	43	52	47	43	42

POLAR GRAPH



Maximum Candela = 1912.5 Located At Horizontal Angle = 20, Vertical Angle = 1  
# 1 - Vertical Plane Through Horizontal Angles (20 - 200) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (1) (Through Max. Cd.)