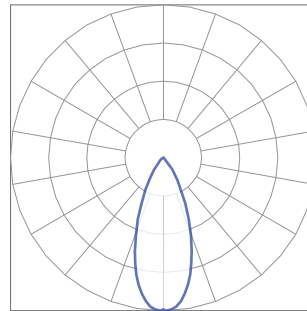


# BoxRail® | 107

107-BX-X-4-48-X-X-X-X-X-Z-HO-35-S1-X-AL / WH-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° White Symmetric Lens

## Performance Summary

	2700K	3000K	3500K	4000K
Color Temperature	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	48	49	50	51
Total Lumens, 4' rail (1219mm)	2337	2411	2460	2509
Lumens per foot (305mm)	584	603	615	627
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.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] L071704208 (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-AL/WH  
 [LUMINAIRE] BoxRail LED, 48", 3500K, 80 CRI, zipper board,  
 [MORE] 40° white 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	2462
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	50
Total Luminaire Watts	49.22
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.68
Spacing Criterion (90-270)	1.18
Spacing Criterion (Diagonal)	0.86
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.02 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	40662	65993	174203
55	30680	44376	115049
65	26768	34203	75842
75	24282	27925	52207
85	0	7211	28844

**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>0.0</b>	2027.25	2027.25	2027.25	2027.25	2027.25	2027.25	2027.25	2027.25	2027.25	2027.25
<b>1.0</b>	1946.25	1944.00	1941.75	1955.25	1991.25	2025.00	2040.75	2043.00	2045.25	2047.50
<b>3.0</b>	1930.50	1930.50	1928.25	1946.25	1982.25	2013.75	2027.25	2029.50	2034.00	2036.25
<b>5.0</b>	1896.75	1896.75	1896.75	1914.75	1955.25	1984.50	1995.75	2000.25	2007.00	2011.50
<b>7.0</b>	1831.50	1831.50	1833.75	1851.75	1894.50	1930.50	1937.25	1946.25	1957.50	1971.00
<b>9.0</b>	1752.75	1752.75	1755.00	1773.00	1815.75	1854.00	1863.00	1876.50	1894.50	1912.50
<b>11.0</b>	1667.25	1667.25	1667.25	1685.25	1732.50	1761.75	1773.00	1793.25	1818.00	1845.00
<b>13.0</b>	1552.50	1554.75	1559.25	1581.75	1626.75	1660.50	1674.00	1701.00	1734.75	1770.75
<b>15.0</b>	1435.50	1437.75	1446.75	1471.50	1516.50	1548.00	1559.25	1590.75	1633.50	1676.25
<b>17.0</b>	1309.50	1311.75	1318.50	1354.50	1399.50	1424.25	1437.75	1476.00	1525.50	1575.00
<b>19.5</b>	1140.75	1145.25	1161.00	1201.50	1242.00	1262.25	1280.25	1332.00	1388.25	1449.00
<b>22.5</b>	956.25	960.75	976.50	1010.25	1046.25	1068.75	1089.00	1145.25	1212.75	1287.00
<b>25.5</b>	783.00	787.50	803.25	832.50	861.75	879.75	906.75	967.50	1035.00	1113.75
<b>29.0</b>	605.25	609.75	623.25	648.00	679.50	695.25	720.00	771.75	841.50	918.00
<b>33.0</b>	447.75	450.00	461.25	481.50	508.50	526.50	544.50	591.75	652.50	724.50
<b>37.5</b>	324.00	326.25	335.25	348.75	364.50	375.75	393.75	434.25	483.75	542.25
<b>42.5</b>	234.00	236.25	240.75	249.75	261.00	272.25	283.50	308.25	342.00	387.00
<b>47.5</b>	177.75	180.00	182.25	189.00	195.75	202.50	211.50	227.25	252.00	281.25
<b>55.0</b>	126.00	126.00	128.25	130.50	135.00	139.50	144.00	155.25	166.50	182.25
<b>65.0</b>	81.00	81.00	81.00	83.25	85.50	85.50	87.75	92.25	96.75	103.50
<b>75.0</b>	45.00	45.00	45.00	45.00	45.00	47.25	47.25	49.50	49.50	51.75
<b>85.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	2.25	2.25	2.25	4.50
<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>	2027.25	2027.25	2027.25	2027.25	2027.25	2027.25	2027.25	2027.25	2027.25
<b>1.0</b>	2047.50	2049.75	2052.00	2054.25	2056.50	2058.75	2058.75	2058.75	2063.25
<b>3.0</b>	2038.50	2043.00	2049.75	2052.00	2054.25	2061.00	2063.25	2058.75	2058.75
<b>5.0</b>	2020.50	2025.00	2031.75	2038.50	2045.25	2049.75	2058.75	2054.25	2054.25
<b>7.0</b>	1982.25	1993.50	2004.75	2016.00	2025.00	2034.00	2045.25	2045.25	2045.25
<b>9.0</b>	1930.50	1950.75	1968.75	1984.50	2002.50	2013.75	2025.00	2034.00	2036.25
<b>11.0</b>	1872.00	1896.75	1923.75	1957.50	1977.75	1995.75	2011.50	2013.75	2016.00
<b>13.0</b>	1806.75	1842.75	1876.50	1908.00	1937.25	1959.75	1984.50	1989.00	1993.50
<b>15.0</b>	1723.50	1768.50	1811.25	1854.00	1892.25	1928.25	1953.00	1968.75	1973.25
<b>17.0</b>	1633.50	1687.50	1743.75	1795.50	1840.50	1878.75	1910.25	1935.00	1941.75
<b>19.5</b>	1514.25	1584.00	1651.50	1714.50	1768.50	1827.00	1860.75	1878.75	1885.50
<b>22.5</b>	1363.50	1444.50	1523.25	1602.00	1671.75	1734.75	1777.50	1806.75	1813.50
<b>25.5</b>	1197.00	1289.25	1381.50	1471.50	1554.75	1629.00	1685.25	1721.25	1732.50
<b>29.0</b>	1008.00	1104.75	1208.25	1311.75	1406.25	1491.75	1561.50	1599.75	1615.50
<b>33.0</b>	814.50	909.00	1012.50	1120.50	1224.00	1320.75	1397.25	1440.00	1455.75
<b>37.5</b>	616.50	704.25	803.25	906.75	1010.25	1104.75	1185.75	1235.25	1248.75
<b>42.5</b>	445.50	513.00	596.25	686.25	778.50	864.00	940.50	985.50	1001.25
<b>47.5</b>	321.75	371.25	432.00	501.75	576.00	648.00	708.75	747.00	762.75
<b>55.0</b>	202.50	229.50	265.50	306.00	351.00	398.25	436.50	461.25	472.50
<b>65.0</b>	112.50	123.75	137.25	155.25	175.50	195.75	213.75	225.00	229.50
<b>75.0</b>	56.25	60.75	65.25	69.75	76.50	83.25	90.00	94.50	96.75
<b>85.0</b>	9.00	13.50	15.75	15.75	18.00	18.00	18.00	18.00	18.00
<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**  
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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	630.82	N.A.	25.60
0-30	1160.15	N.A.	47.10
0-40	1584.22	N.A.	64.30
0-60	2153.57	N.A.	87.50
0-80	2422.79	N.A.	98.40
0-90	2462.12	N.A.	100.00
10-90	2309.68	N.A.	93.80
20-40	953.41	N.A.	38.70
20-50	1327.7	N.A.	53.90
40-70	741.85	N.A.	30.10
60-80	269.22	N.A.	10.90
70-80	96.71	N.A.	3.90
80-90	39.34	N.A.	1.60
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	2462.12	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	152.45
10-20	478.37
20-30	529.33
30-40	424.07
40-50	374.29
50-60	195.06
60-70	172.51
70-80	96.71
80-90	39.34
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

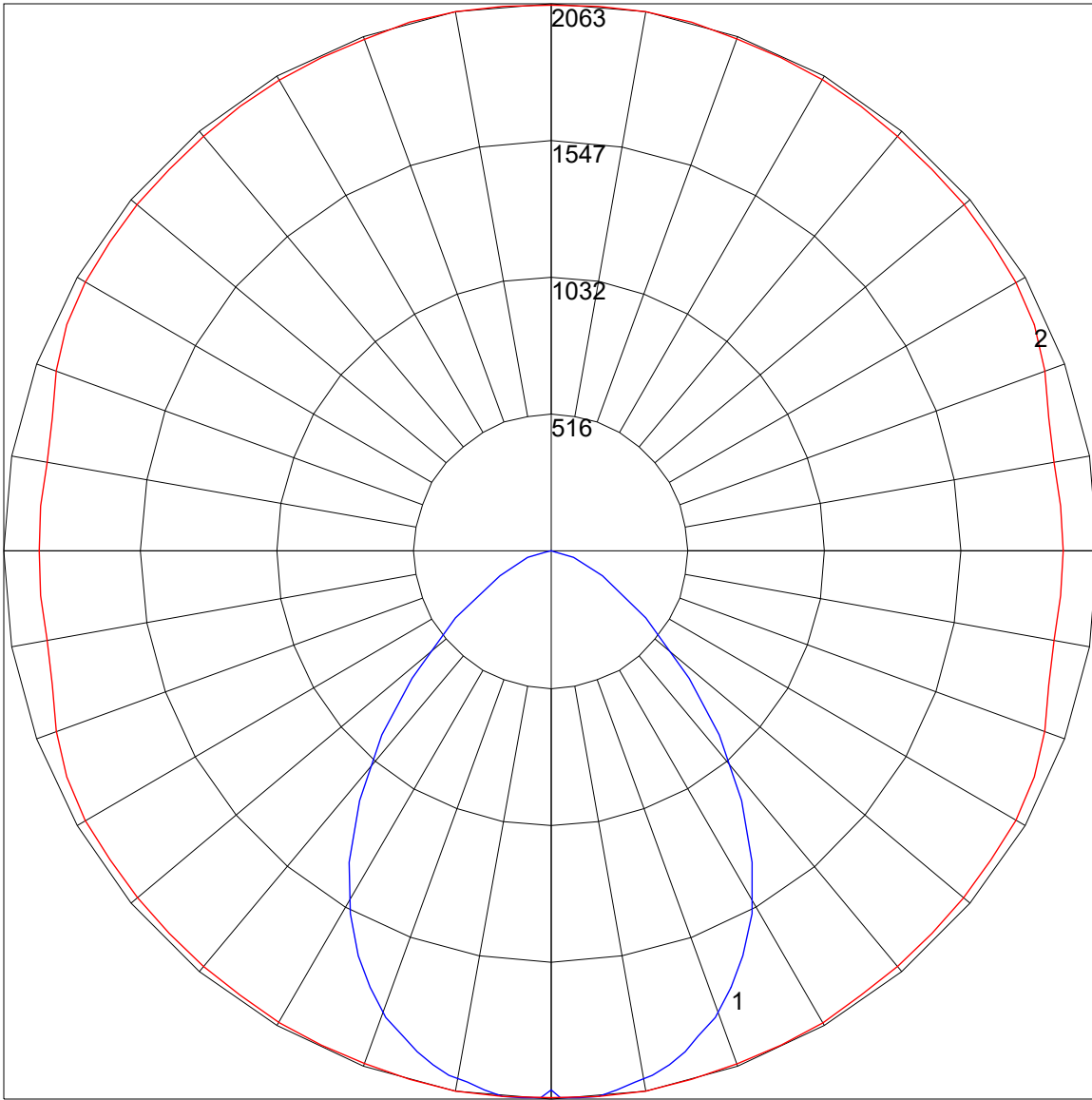
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_107\_BX\_HO\_35\_S1.IES**

**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	111	107	103	100	108	104	101	98	100	98	95	96	94	92	93	91	90	88
2	103	96	90	85	100	94	89	84	91	86	83	87	84	81	85	82	79	77
3	95	87	80	74	93	85	79	74	82	77	73	80	75	71	77	74	70	68
4	89	79	72	66	87	78	71	65	75	69	65	73	68	64	71	67	63	61
5	83	72	65	59	81	71	64	59	69	63	58	67	62	58	66	61	57	55
6	78	66	59	53	76	66	58	53	64	58	53	62	57	52	61	56	52	50
7	73	61	54	49	72	61	54	48	59	53	48	58	52	48	57	52	48	46
8	69	57	50	45	67	56	49	44	55	49	44	54	48	44	53	48	44	42
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39
10	61	50	43	38	60	49	43	38	48	42	38	48	42	38	47	41	38	36

POLAR GRAPH



Maximum Candela = 2063.25 Located At Horizontal Angle = 80, Vertical Angle = 3  
# 1 - Vertical Plane Through Horizontal Angles (80 - 260) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (3) (Through Max. Cd.)