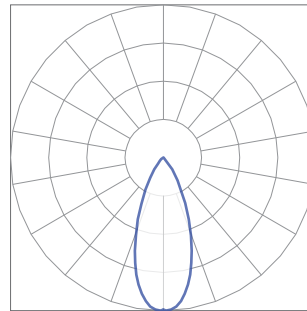
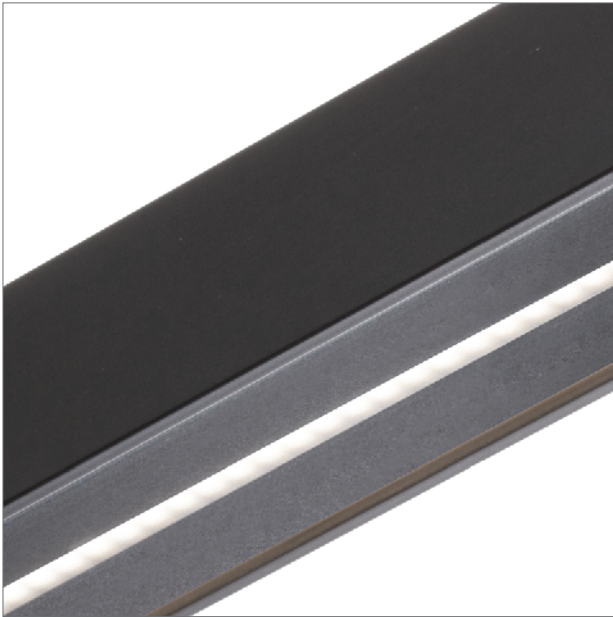


BoxRail® | 107

107-BX-X-4-48-X-X-X-X-X-Z-HO-359-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, 90+ CRI
Optics	40° Black Symmetric Lens

Performance Summary

	2700K	3000K	3500K	4000K
Color Temperature	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	32	33	33	34
Total Lumens, 4' rail (1219mm)	1535	1583	1616	1648
Lumens per foot (305mm)	384	396	404	412
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	-	-	96	-

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IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_107_BX_HO_359_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-359-S1-BL
[LUMINAIRE] BoxRail LED, 48", 3500K, 90 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	1617
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	33
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	12711	31391	128454
55	5698	13770	70276
65	3867	7733	35445
75	2105	5262	19994
85	0	0	9375

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_107_BX_HO_359_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>
0.0	1637.36	1637.36	1637.36	1637.36	1637.36	1637.36	1637.36	1637.36	1637.36	1637.36
1.0	1645.12	1645.12	1645.12	1645.12	1649.00	1649.00	1647.06	1647.06	1645.12	1645.12
3.0	1639.30	1639.30	1639.30	1639.30	1639.30	1637.36	1637.36	1637.36	1637.36	1637.36
5.0	1616.02	1616.02	1616.02	1616.02	1612.14	1614.08	1614.08	1616.02	1617.96	1621.84
7.0	1561.70	1561.70	1563.64	1565.58	1557.82	1561.70	1567.52	1573.34	1579.16	1586.92
9.0	1489.92	1489.92	1493.80	1497.68	1486.04	1493.80	1507.38	1517.08	1528.72	1542.30
11.0	1396.80	1396.80	1402.62	1408.44	1394.86	1414.26	1429.78	1447.24	1464.70	1484.10
13.0	1284.28	1286.22	1293.98	1309.50	1295.92	1315.32	1340.54	1363.82	1390.98	1418.14
15.0	1162.06	1164.00	1171.76	1175.64	1173.70	1198.92	1235.78	1266.82	1301.74	1336.66
17.0	1030.14	1034.02	1043.72	1041.78	1051.48	1088.34	1121.32	1158.18	1200.86	1245.48
19.5	845.84	857.48	878.82	896.28	888.52	925.38	964.18	1018.50	1070.88	1125.20
22.5	677.06	680.94	698.40	700.34	717.80	754.66	797.34	849.72	911.80	975.82
25.5	510.22	514.10	525.74	529.62	550.96	589.76	634.38	688.70	750.78	822.56
29.0	362.78	370.54	374.42	389.94	393.82	426.80	467.54	517.98	580.06	649.90
33.0	228.92	234.74	240.56	246.38	258.02	285.18	316.22	358.90	411.28	471.42
37.5	135.80	139.68	145.50	145.50	157.14	176.54	199.82	228.92	271.60	320.10
42.5	81.48	81.48	83.42	87.30	87.30	98.94	112.52	133.86	161.02	195.94
47.5	46.56	46.56	48.50	52.38	52.38	60.14	69.84	81.48	97.00	120.28
55.0	23.28	23.28	23.28	25.22	25.22	29.10	32.98	38.80	46.56	56.26
65.0	11.64	11.64	11.64	11.64	11.64	13.58	13.58	15.52	19.40	23.28
75.0	3.88	3.88	5.82	5.82	5.82	5.82	5.82	7.76	7.76	9.70
85.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90.0	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>
0.0	1637.36	1637.36	1637.36	1637.36	1637.36	1637.36	1637.36	1637.36	1637.36
1.0	1645.12	1649.00	1647.06	1647.06	1647.06	1647.06	1647.06	1647.06	1647.06
3.0	1637.36	1637.36	1639.30	1639.30	1641.24	1641.24	1641.24	1641.24	1641.24
5.0	1623.78	1625.72	1629.60	1631.54	1633.48	1635.42	1637.36	1639.30	1639.30
7.0	1594.68	1600.50	1608.26	1612.14	1621.84	1625.72	1629.60	1631.54	1631.54
9.0	1555.88	1567.52	1579.16	1588.86	1598.56	1606.32	1614.08	1617.96	1621.84
11.0	1505.44	1522.90	1542.30	1557.82	1573.34	1584.98	1594.68	1600.50	1606.32
13.0	1445.30	1472.46	1503.50	1524.84	1546.18	1563.64	1575.28	1583.04	1586.92
15.0	1375.46	1412.32	1445.30	1476.34	1511.26	1536.48	1553.94	1563.64	1565.58
17.0	1295.92	1342.48	1383.22	1429.78	1466.64	1495.74	1519.02	1532.60	1538.42
19.5	1183.40	1255.18	1313.38	1358.00	1408.44	1447.24	1480.22	1497.68	1509.32
22.5	1049.54	1119.38	1191.16	1255.18	1313.38	1365.76	1404.56	1427.84	1435.60
25.5	902.10	983.58	1057.30	1138.78	1222.20	1286.22	1332.78	1361.88	1371.58
29.0	735.26	824.50	915.68	1002.98	1096.10	1171.76	1229.96	1266.82	1278.46
33.0	550.96	636.32	731.38	822.56	919.56	1016.56	1084.46	1127.14	1140.72
37.5	382.18	459.78	547.08	632.44	729.44	810.92	894.34	944.78	964.18
42.5	240.56	300.70	372.48	444.26	533.50	618.86	690.64	731.38	752.72
47.5	149.38	190.12	238.62	294.88	360.84	430.68	486.94	525.74	541.26
55.0	71.78	91.18	116.40	147.44	182.36	219.22	254.14	279.36	287.12
65.0	29.10	34.92	44.62	54.32	67.90	81.48	95.06	104.76	106.70
75.0	11.64	13.58	17.46	19.40	23.28	29.10	32.98	34.92	36.86
85.0	0.00	1.94	1.94	3.88	3.88	5.82	5.82	5.82	5.82
90.0	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_359_S1-BL.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	504.35	N.A.	31.20
0-30	900.72	N.A.	55.70
0-40	1192.41	N.A.	73.70
0-60	1514.14	N.A.	93.60
0-80	1608.13	N.A.	99.40
0-90	1617.39	N.A.	100.00
10-90	1493.55	N.A.	92.30
20-40	688.06	N.A.	42.50
20-50	913.34	N.A.	56.50
40-70	388.15	N.A.	24.00
60-80	93.99	N.A.	5.80
70-80	27.56	N.A.	1.70
80-90	9.26	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	1617.39	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	123.84
10-20	380.51
20-30	396.38
30-40	291.68
40-50	225.28
50-60	96.46
60-70	66.42
70-80	27.56
80-90	9.26
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

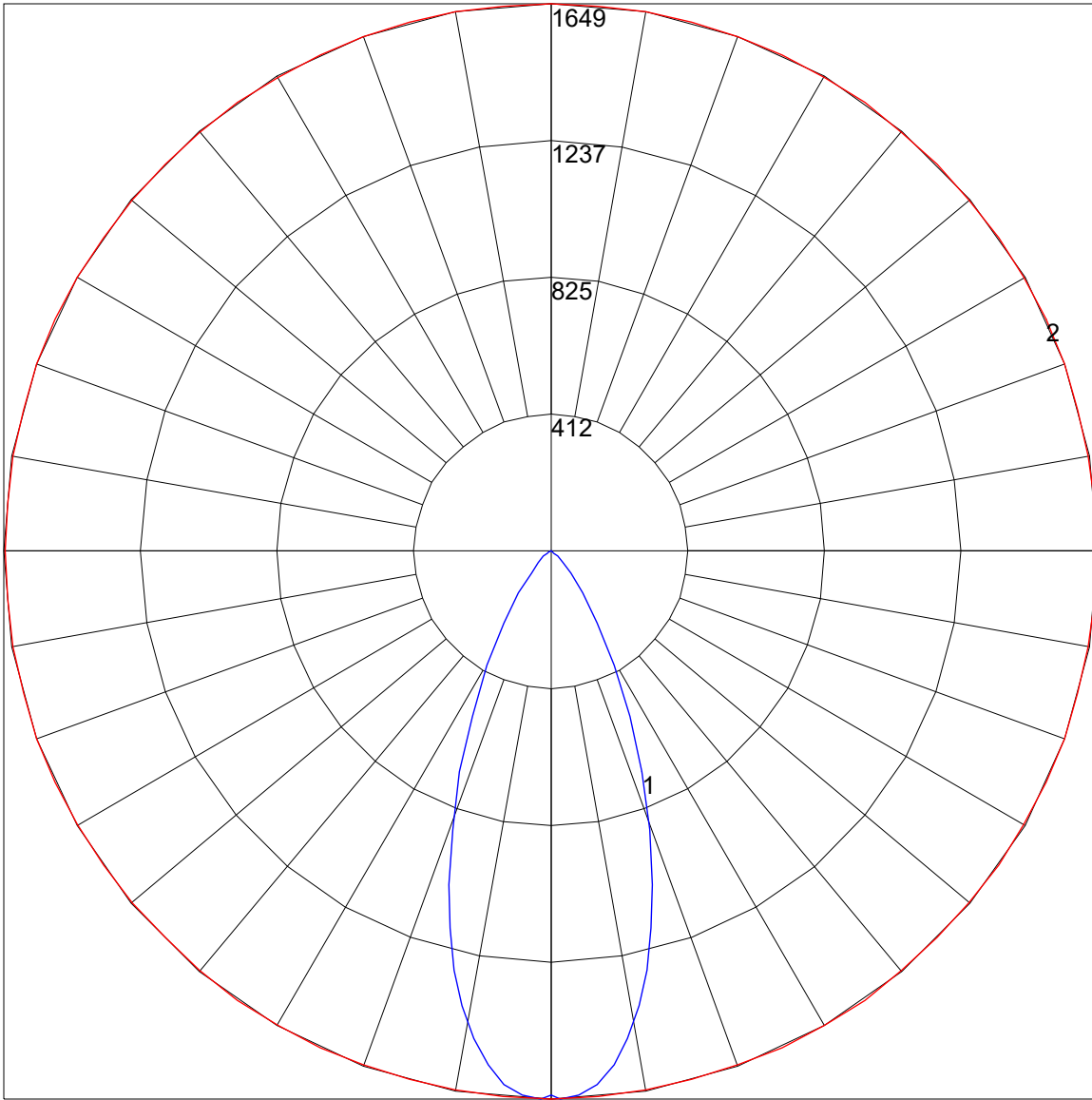
IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_107_BX_HO_359_S1-BL.IES

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	110	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	87	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	70	65	74	68	64	72	67	63	71	66	63	61
6	82	71	64	59	80	71	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	57	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 = 1649 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.)