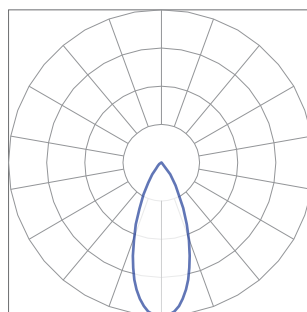


BoxRail® | 107

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

Performance Summary

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	41	43	44	44
Total Lumens, 4' rail (1219mm)	2015	2078	2121	2163
Lumens per foot (305mm)	504	520	530	541
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.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-359-S1-AL/WH
 [LUMINAIRE] BoxRail LED, 48", 3500K, 90 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	2123
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	43
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	35060	56900	150202
55	26453	38262	99198
65	23080	29491	65392
75	20937	24077	45014
85	0	6217	24870

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_107_BX_HO_359_S1.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	1747.94	1747.94	1747.94	1747.94	1747.94	1747.94	1747.94	1747.94	1747.94	1747.94
1.0	1678.10	1676.16	1674.22	1685.86	1716.90	1746.00	1759.58	1761.52	1763.46	1765.40
3.0	1664.52	1664.52	1662.58	1678.10	1709.14	1736.30	1747.94	1749.88	1753.76	1755.70
5.0	1635.42	1635.42	1635.42	1650.94	1685.86	1711.08	1720.78	1724.66	1730.48	1734.36
7.0	1579.16	1579.16	1581.10	1596.62	1633.48	1664.52	1670.34	1678.10	1687.80	1699.44
9.0	1511.26	1511.26	1513.20	1528.72	1565.58	1598.56	1606.32	1617.96	1633.48	1649.00
11.0	1437.54	1437.54	1437.54	1453.06	1493.80	1519.02	1528.72	1546.18	1567.52	1590.80
13.0	1338.60	1340.54	1344.42	1363.82	1402.62	1431.72	1443.36	1466.64	1495.74	1526.78
15.0	1237.72	1239.66	1247.42	1268.76	1307.56	1334.72	1344.42	1371.58	1408.44	1445.30
17.0	1129.08	1131.02	1136.84	1167.88	1206.68	1228.02	1239.66	1272.64	1315.32	1358.00
19.5	983.58	987.46	1001.04	1035.96	1070.88	1088.34	1103.86	1148.48	1196.98	1249.36
22.5	824.50	828.38	841.96	871.06	902.10	921.50	938.96	987.46	1045.66	1109.68
25.5	675.12	679.00	692.58	717.80	743.02	758.54	781.82	834.20	892.40	960.30
29.0	521.86	525.74	537.38	558.72	585.88	599.46	620.80	665.42	725.56	791.52
33.0	386.06	388.00	397.70	415.16	438.44	453.96	469.48	510.22	562.60	624.68
37.5	279.36	281.30	289.06	300.70	314.28	323.98	339.50	374.42	417.10	467.54
42.5	201.76	203.70	207.58	215.34	225.04	234.74	244.44	265.78	294.88	333.68
47.5	153.26	155.20	157.14	162.96	168.78	174.60	182.36	195.94	217.28	242.50
55.0	108.64	108.64	110.58	112.52	116.40	120.28	124.16	133.86	143.56	157.14
65.0	69.84	69.84	69.84	71.78	73.72	73.72	75.66	79.54	83.42	89.24
75.0	38.80	38.80	38.80	38.80	38.80	40.74	40.74	42.68	42.68	44.62
85.0	0.00	0.00	0.00	0.00	0.00	0.00	1.94	1.94	1.94	3.88
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	1747.94	1747.94	1747.94	1747.94	1747.94	1747.94	1747.94	1747.94	1747.94
1.0	1765.40	1767.34	1769.28	1771.22	1773.16	1775.10	1775.10	1775.10	1778.98
3.0	1757.64	1761.52	1767.34	1769.28	1771.22	1777.04	1778.98	1775.10	1775.10
5.0	1742.12	1746.00	1751.82	1757.64	1763.46	1767.34	1775.10	1771.22	1771.22
7.0	1709.14	1718.84	1728.54	1738.24	1746.00	1753.76	1763.46	1763.46	1763.46
9.0	1664.52	1681.98	1697.50	1711.08	1726.60	1736.30	1746.00	1753.76	1755.70
11.0	1614.08	1635.42	1658.70	1687.80	1705.26	1720.78	1734.36	1736.30	1738.24
13.0	1557.82	1588.86	1617.96	1645.12	1670.34	1689.74	1711.08	1714.96	1718.84
15.0	1486.04	1524.84	1561.70	1598.56	1631.54	1662.58	1683.92	1697.50	1701.38
17.0	1408.44	1455.00	1503.50	1548.12	1586.92	1619.90	1647.06	1668.40	1674.22
19.5	1305.62	1365.76	1423.96	1478.28	1524.84	1575.28	1604.38	1619.90	1625.72
22.5	1175.64	1245.48	1313.38	1381.28	1441.42	1495.74	1532.60	1557.82	1563.64
25.5	1032.08	1111.62	1191.16	1268.76	1340.54	1404.56	1453.06	1484.10	1493.80
29.0	869.12	952.54	1041.78	1131.02	1212.50	1286.22	1346.36	1379.34	1392.92
33.0	702.28	783.76	873.00	966.12	1055.36	1138.78	1204.74	1241.60	1255.18
37.5	531.56	607.22	692.58	781.82	871.06	952.54	1022.38	1065.06	1076.70
42.5	384.12	442.32	514.10	591.70	671.24	744.96	810.92	849.72	863.30
47.5	277.42	320.10	372.48	432.62	496.64	558.72	611.10	644.08	657.66
55.0	174.60	197.88	228.92	263.84	302.64	343.38	376.36	397.70	407.40
65.0	97.00	106.70	118.34	133.86	151.32	168.78	184.30	194.00	197.88
75.0	48.50	52.38	56.26	60.14	65.96	71.78	77.60	81.48	83.42
85.0	7.76	11.64	13.58	13.58	15.52	15.52	15.52	15.52	15.52
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.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	543.90	N.A.	25.60
0-30	1000.31	N.A.	47.10
0-40	1365.95	N.A.	64.30
0-60	1856.85	N.A.	87.50
0-80	2088.98	N.A.	98.40
0-90	2122.9	N.A.	100.00
10-90	1991.45	N.A.	93.80
20-40	822.05	N.A.	38.70
20-50	1144.77	N.A.	53.90
40-70	639.64	N.A.	30.10
60-80	232.13	N.A.	10.90
70-80	83.39	N.A.	3.90
80-90	33.92	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	2122.9	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	131.44
10-20	412.46
20-30	456.40
30-40	365.64
40-50	322.72
50-60	168.18
60-70	148.74
70-80	83.39
80-90	33.92
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

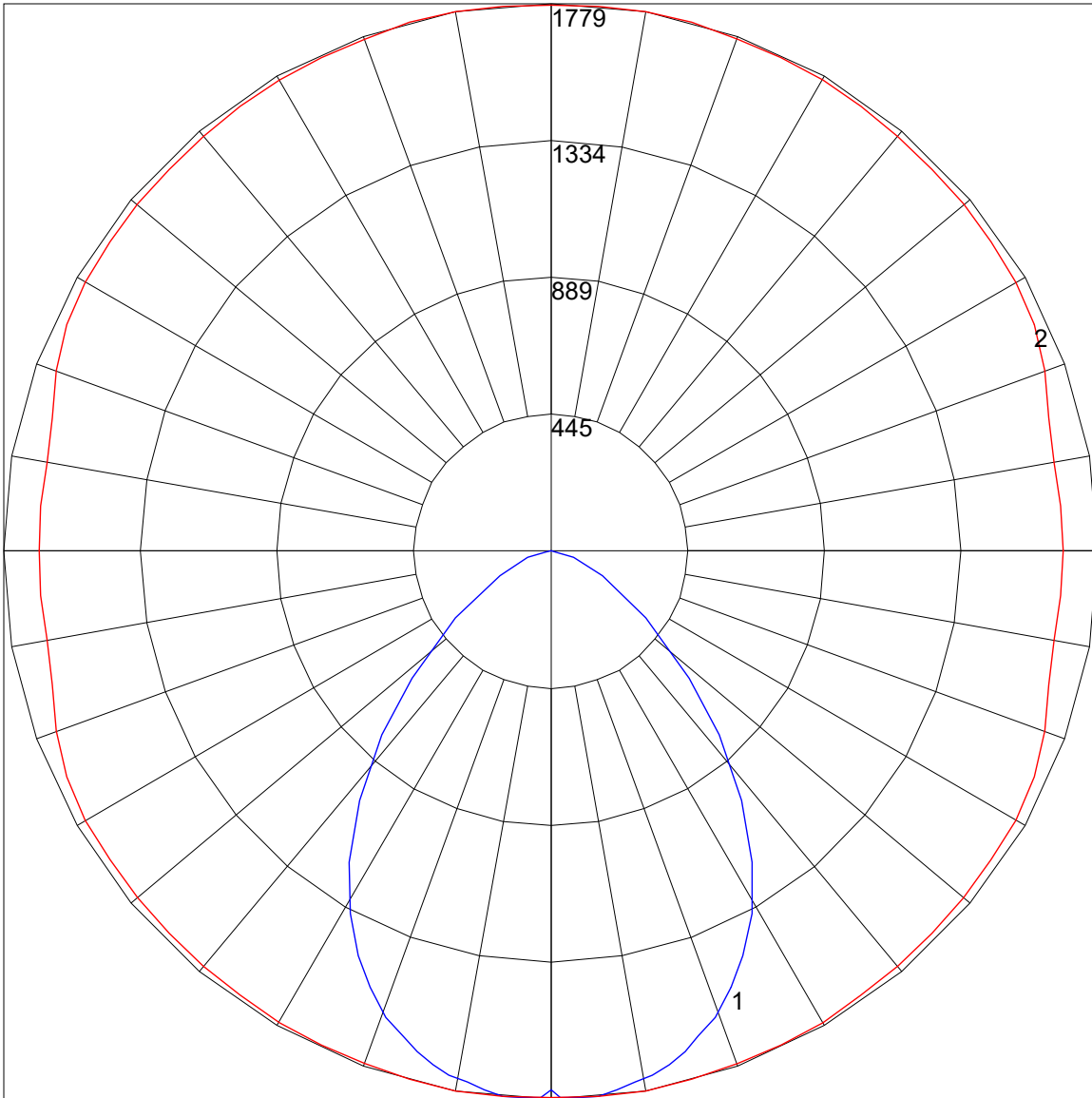
IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_107_BX_HO_359_S1.IES

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	73	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	57	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 = 1778.98 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.)