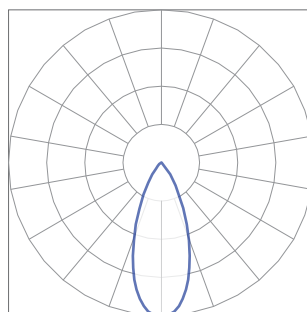
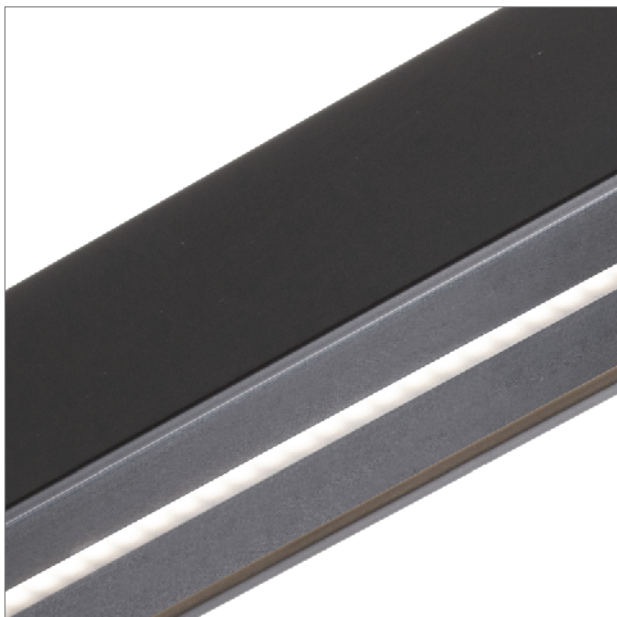


BoxRail® | 107

107-BX-X-4-48-X-X-X-X-X-Z-LO-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	Low Output
Color Temperature	3500K, 90+ CRI
Optics	40° Black Symmetric Lens

Performance Summary

Color Temperature	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	28	28	29	30
Total Lumens, 4' rail (1219mm)	404	417	425	434
Lumens per foot (305mm)	101	104	106	108
Input Power (W), 4' rail (1219mm)	15.0	15.0	15.0	15.0
Watts per foot (305mm)	3.8	3.8	3.8	3.8
CRI	-	-	96	-

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IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_107_BX_LO_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-LO-359-S1-BL
[LUMINAIRE] BoxRail LED, 48", 3500K, 90 CRI, zipper board,
[MORE] 40° black symmetric lens, low output
[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	425
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	28
Total Luminaire Watts	14.95
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	3341	8252	33769
55	1498	3620	18475
65	1017	2033	9318
75	553	1383	5256
85	0	0	2465

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_107_BX_LO_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	430.44	430.44	430.44	430.44	430.44	430.44	430.44	430.44	430.44	430.44
1.0	432.48	432.48	432.48	432.48	433.50	433.50	432.99	432.99	432.48	432.48
3.0	430.95	430.95	430.95	430.95	430.95	430.44	430.44	430.44	430.44	430.44
5.0	424.83	424.83	424.83	424.83	423.81	424.32	424.32	424.83	425.34	426.36
7.0	410.55	410.55	411.06	411.57	409.53	410.55	412.08	413.61	415.14	417.18
9.0	391.68	391.68	392.70	393.72	390.66	392.70	396.27	398.82	401.88	405.45
11.0	367.20	367.20	368.73	370.26	366.69	371.79	375.87	380.46	385.05	390.15
13.0	337.62	338.13	340.17	344.25	340.68	345.78	352.41	358.53	365.67	372.81
15.0	305.49	306.00	308.04	309.06	308.55	315.18	324.87	333.03	342.21	351.39
17.0	270.81	271.83	274.38	273.87	276.42	286.11	294.78	304.47	315.69	327.42
19.5	222.36	225.42	231.03	235.62	233.58	243.27	253.47	267.75	281.52	295.80
22.5	177.99	179.01	183.60	184.11	188.70	198.39	209.61	223.38	239.70	256.53
25.5	134.13	135.15	138.21	139.23	144.84	155.04	166.77	181.05	197.37	216.24
29.0	95.37	97.41	98.43	102.51	103.53	112.20	122.91	136.17	152.49	170.85
33.0	60.18	61.71	63.24	64.77	67.83	74.97	83.13	94.35	108.12	123.93
37.5	35.70	36.72	38.25	38.25	41.31	46.41	52.53	60.18	71.40	84.15
42.5	21.42	21.42	21.93	22.95	22.95	26.01	29.58	35.19	42.33	51.51
47.5	12.24	12.24	12.75	13.77	13.77	15.81	18.36	21.42	25.50	31.62
55.0	6.12	6.12	6.12	6.63	6.63	7.65	8.67	10.20	12.24	14.79
65.0	3.06	3.06	3.06	3.06	3.06	3.57	3.57	4.08	5.10	6.12
75.0	1.02	1.02	1.53	1.53	1.53	1.53	1.53	2.04	2.04	2.55
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	430.44	430.44	430.44	430.44	430.44	430.44	430.44	430.44	430.44
1.0	432.48	433.50	432.99	432.99	432.99	432.99	432.99	432.99	432.99
3.0	430.44	430.44	430.95	430.95	431.46	431.46	431.46	431.46	431.46
5.0	426.87	427.38	428.40	428.91	429.42	429.93	430.44	430.95	430.95
7.0	419.22	420.75	422.79	423.81	426.36	427.38	428.40	428.91	428.91
9.0	409.02	412.08	415.14	417.69	420.24	422.28	424.32	425.34	426.36
11.0	395.76	400.35	405.45	409.53	413.61	416.67	419.22	420.75	422.28
13.0	379.95	387.09	395.25	400.86	406.47	411.06	414.12	416.16	417.18
15.0	361.59	371.28	379.95	388.11	397.29	403.92	408.51	411.06	411.57
17.0	340.68	352.92	363.63	375.87	385.56	393.21	399.33	402.90	404.43
19.5	311.10	329.97	345.27	357.00	370.26	380.46	389.13	393.72	396.78
22.5	275.91	294.27	313.14	329.97	345.27	359.04	369.24	375.36	377.40
25.5	237.15	258.57	277.95	299.37	321.30	338.13	350.37	358.02	360.57
29.0	193.29	216.75	240.72	263.67	288.15	308.04	323.34	333.03	336.09
33.0	144.84	167.28	192.27	216.24	241.74	267.24	285.09	296.31	299.88
37.5	100.47	120.87	143.82	166.26	191.76	213.18	235.11	248.37	253.47
42.5	63.24	79.05	97.92	116.79	140.25	162.69	181.56	192.27	197.88
47.5	39.27	49.98	62.73	77.52	94.86	113.22	128.01	138.21	142.29
55.0	18.87	23.97	30.60	38.76	47.94	57.63	66.81	73.44	75.48
65.0	7.65	9.18	11.73	14.28	17.85	21.42	24.99	27.54	28.05
75.0	3.06	3.57	4.59	5.10	6.12	7.65	8.67	9.18	9.69
85.0	0.00	0.51	0.51	1.02	1.02	1.53	1.53	1.53	1.53
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_LO_359_S1-BL.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	132.59	N.A.	31.20
0-30	236.79	N.A.	55.70
0-40	313.47	N.A.	73.70
0-60	398.05	N.A.	93.60
0-80	422.75	N.A.	99.40
0-90	425.19	N.A.	100.00
10-90	392.63	N.A.	92.30
20-40	180.88	N.A.	42.50
20-50	240.10	N.A.	56.50
40-70	102.04	N.A.	24.00
60-80	24.71	N.A.	5.80
70-80	7.25	N.A.	1.70
80-90	2.44	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	425.19	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	32.56
10-20	100.03
20-30	104.20
30-40	76.68
40-50	59.22
50-60	25.36
60-70	17.46
70-80	7.25
80-90	2.44
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

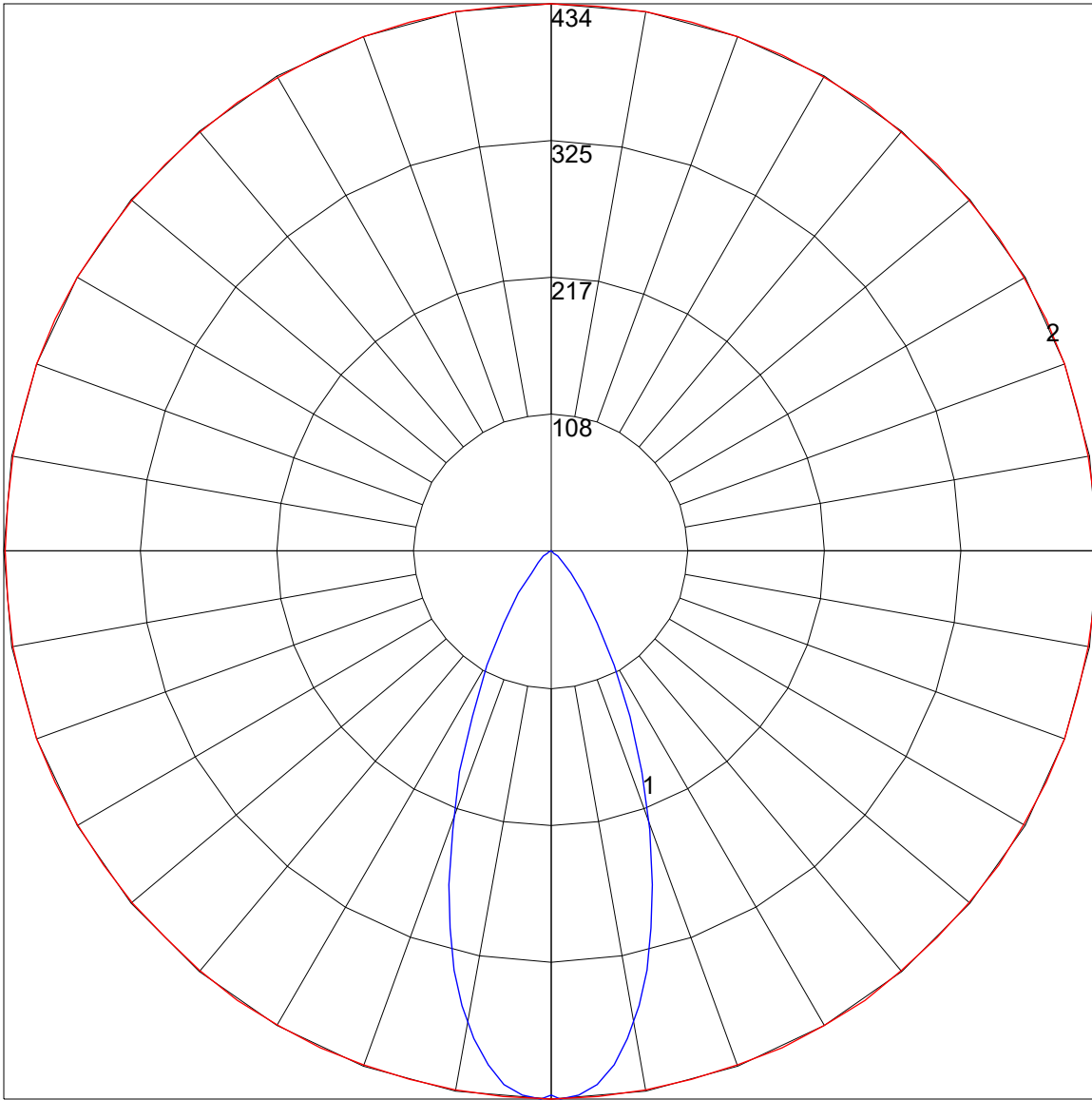
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82
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 = 433.5 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.)