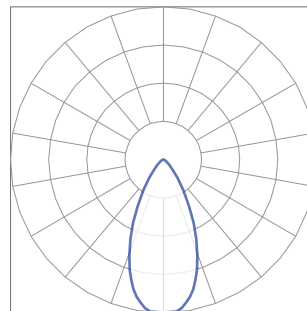
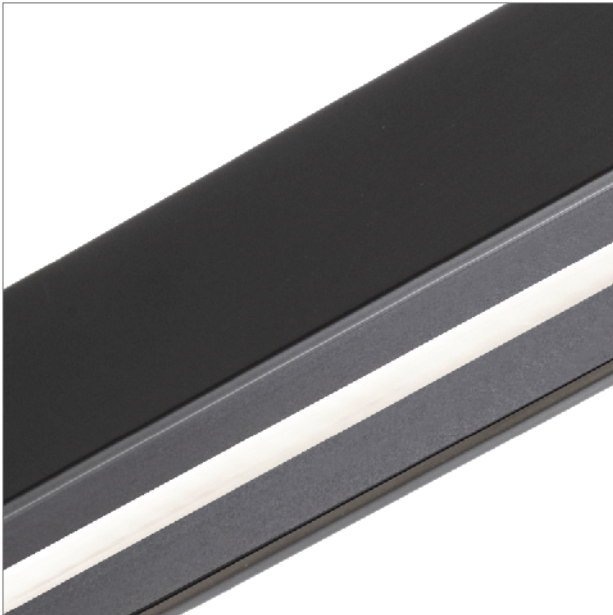


BoxRail® | 107

107-BX-X-4-48-X-X-X-X-X-Z-SO-35-S2-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	Standard Output
Color Temperature	3500K, 80+ CRI
Optics	60° Black 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)	1139	1174	1198	1222
Lumens per foot (305mm)	285	294	300	306
Input Power (W), 4' rail (1219mm)	24.1	24.1	24.1	24.1
Watts per foot (305mm)	6.1	6.1	6.1	6.1
CRI	-	-	85	-

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IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_107_BX_SO_35_S2-BL.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L071704212 (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-SO-35-S2-BL
[LUMINAIRE] BoxRail LED, 48", 3500K, 80 CRI, zipper board,
[MORE] 60° black symmetric lens, standard output
[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1195
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	50
Total Luminaire Watts	24.07
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.78
Spacing Criterion (90-270)	1.14
Spacing Criterion (Diagonal)	0.88
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	15111	30105	82232
55	7509	14730	45633
65	4312	8624	23911
75	3200	5761	13441
85	0	1901	7603

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_107_BX_SO_35_S2-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	1077.34	1077.34	1077.34	1077.34	1077.34	1077.34	1077.34	1077.34	1077.34	1077.34
1.0	1073.80	1072.62	1072.62	1073.80	1074.98	1074.98	1076.16	1076.16	1076.16	1076.16
3.0	1072.62	1072.62	1071.44	1069.08	1069.08	1070.26	1072.62	1072.62	1073.80	1073.80
5.0	1072.62	1070.26	1064.36	1059.64	1057.28	1060.82	1062.00	1063.18	1064.36	1065.54
7.0	1054.92	1053.74	1046.66	1037.22	1033.68	1036.04	1039.58	1041.94	1045.48	1047.84
9.0	1020.70	1014.80	1005.36	995.92	998.28	1004.18	1010.08	1013.62	1019.52	1025.42
11.0	984.12	982.94	966.42	958.16	953.44	965.24	969.96	978.22	987.66	994.74
13.0	935.74	923.94	913.32	903.88	901.52	908.60	921.58	935.74	945.18	958.16
15.0	870.84	860.22	841.34	837.80	840.16	853.14	870.84	885.00	903.88	918.04
17.0	813.02	807.12	784.70	770.54	777.62	797.68	815.38	835.44	853.14	874.38
19.5	717.44	711.54	689.12	683.22	684.40	700.92	726.88	751.66	778.80	803.58
22.5	604.16	593.54	573.48	566.40	578.20	599.44	625.40	654.90	686.76	719.80
25.5	494.42	477.90	463.74	451.94	473.18	495.60	519.20	552.24	588.82	623.04
29.0	370.52	365.80	352.82	345.74	357.54	378.78	405.92	438.96	479.08	514.48
33.0	257.24	251.34	240.72	239.54	251.34	271.40	293.82	323.32	358.72	397.66
37.5	162.84	162.84	152.22	152.22	162.84	177.00	195.88	218.30	247.80	282.02
42.5	94.40	95.58	92.04	90.86	97.94	108.56	120.36	136.88	158.12	185.26
47.5	57.82	55.46	54.28	55.46	59.00	66.08	74.34	86.14	100.30	118.00
55.0	30.68	29.50	28.32	28.32	30.68	34.22	37.76	43.66	50.74	60.18
65.0	12.98	12.98	12.98	12.98	14.16	15.34	16.52	18.88	21.24	25.96
75.0	5.90	5.90	5.90	5.90	5.90	5.90	7.08	8.26	8.26	10.62
85.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.18
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	1077.34	1077.34	1077.34	1077.34	1077.34	1077.34	1077.34	1077.34	1077.34
1.0	1076.16	1076.16	1076.16	1077.34	1077.34	1077.34	1077.34	1077.34	1076.16
3.0	1074.98	1074.98	1074.98	1076.16	1076.16	1076.16	1077.34	1076.16	1077.34
5.0	1066.72	1067.90	1069.08	1070.26	1071.44	1072.62	1073.80	1073.80	1074.98
7.0	1051.38	1053.74	1057.28	1059.64	1062.00	1064.36	1066.72	1067.90	1069.08
9.0	1031.32	1037.22	1043.12	1047.84	1052.56	1056.10	1058.46	1060.82	1060.82
11.0	1004.18	1012.44	1020.70	1028.96	1034.86	1040.76	1046.66	1049.02	1050.20
13.0	969.96	982.94	995.92	1006.54	1015.98	1024.24	1031.32	1034.86	1036.04
15.0	935.74	952.26	968.78	984.12	998.28	1007.72	1015.98	1020.70	1023.06
17.0	895.62	916.86	936.92	955.80	972.32	985.30	995.92	1003.00	1004.18
19.5	833.08	860.22	886.18	910.96	933.38	951.08	965.24	973.50	977.04
22.5	752.84	787.06	822.46	855.50	883.82	907.42	923.94	935.74	939.28
25.5	665.52	708.00	748.12	787.06	821.28	850.78	873.20	886.18	890.90
29.0	560.50	607.70	654.90	702.10	743.40	777.62	803.58	820.10	824.82
33.0	441.32	492.06	545.16	595.90	641.92	680.86	712.72	730.42	736.32
37.5	324.50	369.34	418.90	470.82	519.20	560.50	594.72	614.78	621.86
42.5	218.30	253.70	295.00	342.20	378.78	422.44	454.30	474.36	480.26
47.5	140.42	168.74	199.42	233.64	267.86	299.72	324.50	341.02	348.10
55.0	71.98	86.14	102.66	121.54	139.24	158.12	173.46	182.90	186.44
65.0	29.50	35.40	41.30	48.38	55.46	61.36	67.26	70.80	71.98
75.0	11.80	12.98	15.34	17.70	20.06	21.24	23.60	24.78	24.78
85.0	1.18	2.36	3.54	3.54	3.54	4.72	4.72	4.72	4.72
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_SO_35_S2-BL.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	342.75	N.A.	28.70
0-30	632.17	N.A.	52.90
0-40	854.88	N.A.	71.50
0-60	1108.18	N.A.	92.70
0-80	1186.99	N.A.	99.30
0-90	1195.21	N.A.	100.00
10-90	1113.55	N.A.	93.20
20-40	512.13	N.A.	42.80
20-50	688.24	N.A.	57.60
40-70	308.39	N.A.	25.80
60-80	78.81	N.A.	6.60
70-80	23.72	N.A.	2.00
80-90	8.23	N.A.	0.70
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	1195.21	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	81.66
10-20	261.09
20-30	289.42
30-40	222.71
40-50	176.11
50-60	77.19
60-70	55.09
70-80	23.72
80-90	8.23
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

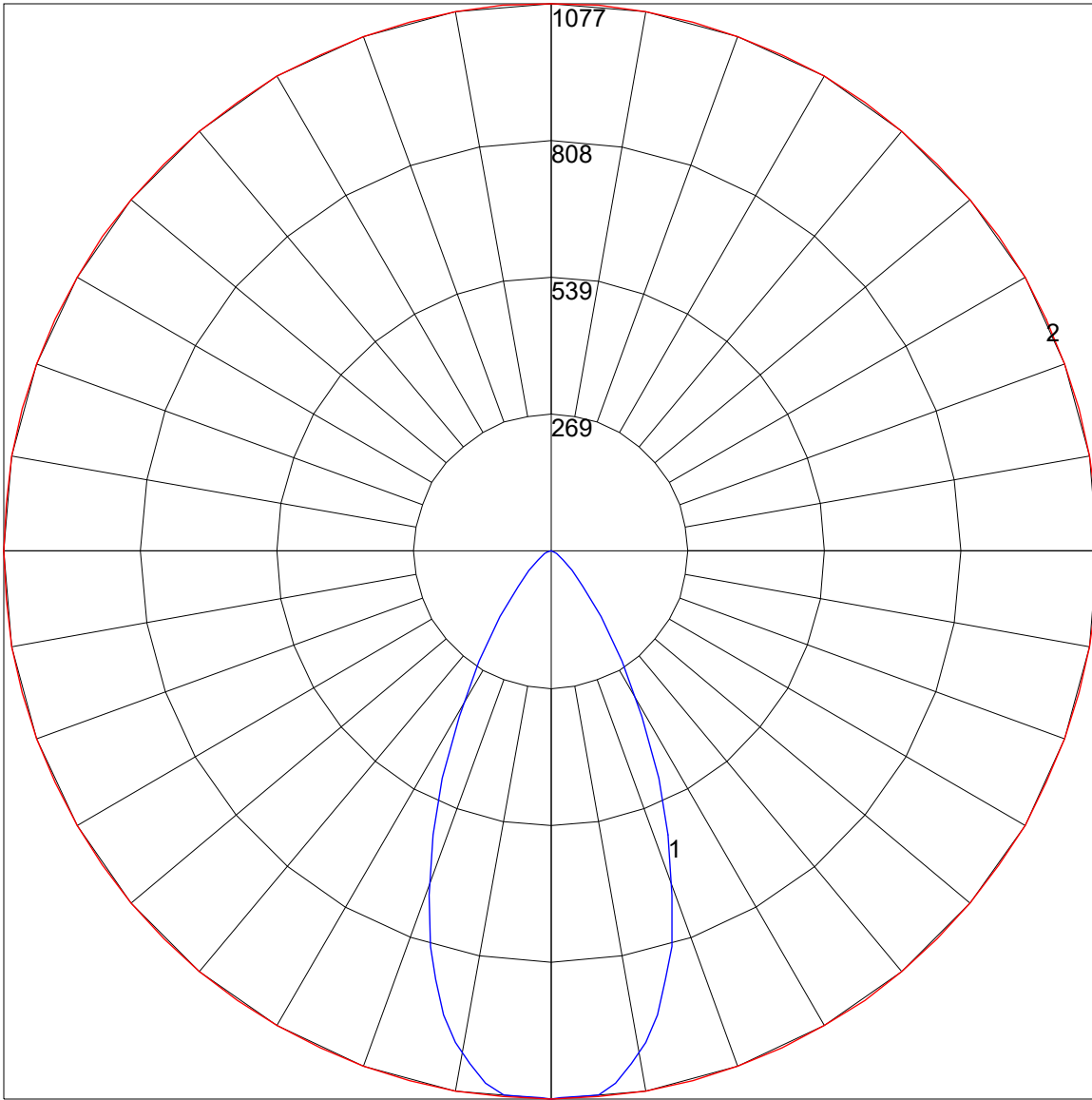
IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_107_BX_SO_35_S2-BL.IES

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	75	81	77	74	72
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66
5	86	76	69	63	84	75	68	63	73	67	63	71	66	62	69	65	61	60
6	81	70	63	58	79	69	62	57	68	62	57	66	61	57	65	60	56	55
7	76	65	58	53	74	64	57	53	63	57	52	62	56	52	60	55	52	50
8	72	61	53	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46
9	68	57	50	45	67	56	49	45	55	49	45	54	49	45	53	48	44	43
10	64	53	46	42	63	53	46	42	52	46	42	51	45	42	50	45	41	40

POLAR GRAPH



Maximum Candela = 1077.34 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)