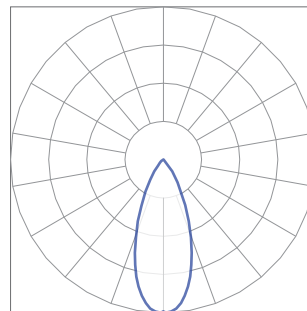
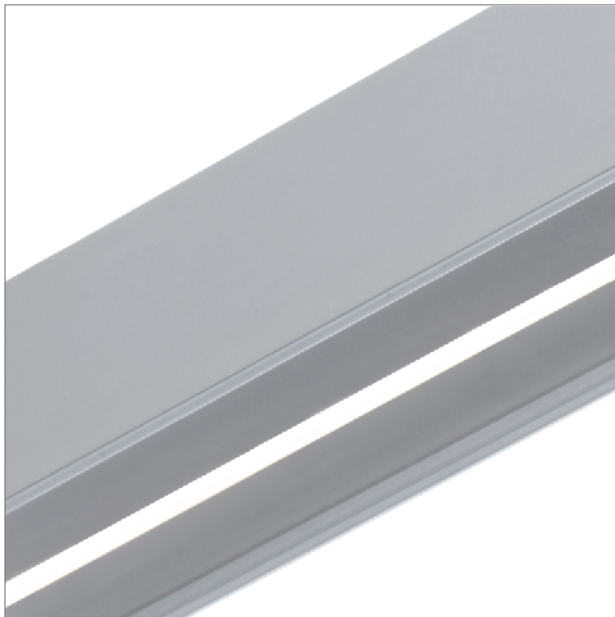


BoxRail® | 107

107-BX-X-4-48-X-X-X-X-X-Z-SO-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	Standard 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	52	53	54	55
Total Lumens, 4' rail (1219mm)	1230	1269	1295	1321
Lumens per foot (305mm)	308	317	324	330
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_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-SO-35-S1-AL/WH
 [LUMINAIRE] BoxRail LED, 48", 3500K, 80 CRI, zipper board,
 [MORE] 40° white 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	1291
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	54
Total Luminaire Watts	24.06
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	21325	34610	91360
55	16090	23273	60337
65	14038	17938	39775
75	12735	14645	27380
85	0	3782	15127

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_107_BX_SO_35_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	1063.18	1063.18	1063.18	1063.18	1063.18	1063.18	1063.18	1063.18	1063.18	1063.18
1.0	1020.70	1019.52	1018.34	1025.42	1044.30	1062.00	1070.26	1071.44	1072.62	1073.80
3.0	1012.44	1012.44	1011.26	1020.70	1039.58	1056.10	1063.18	1064.36	1066.72	1067.90
5.0	994.74	994.74	994.74	1004.18	1025.42	1040.76	1046.66	1049.02	1052.56	1054.92
7.0	960.52	960.52	961.70	971.14	993.56	1012.44	1015.98	1020.70	1026.60	1033.68
9.0	919.22	919.22	920.40	929.84	952.26	972.32	977.04	984.12	993.56	1003.00
11.0	874.38	874.38	874.38	883.82	908.60	923.94	929.84	940.46	953.44	967.60
13.0	814.20	815.38	817.74	829.54	853.14	870.84	877.92	892.08	909.78	928.66
15.0	752.84	754.02	758.74	771.72	795.32	811.84	817.74	834.26	856.68	879.10
17.0	686.76	687.94	691.48	710.36	733.96	746.94	754.02	774.08	800.04	826.00
19.5	598.26	600.62	608.88	630.12	651.36	661.98	671.42	698.56	728.06	759.92
22.5	501.50	503.86	512.12	529.82	548.70	560.50	571.12	600.62	636.02	674.96
25.5	410.64	413.00	421.26	436.60	451.94	461.38	475.54	507.40	542.80	584.10
29.0	317.42	319.78	326.86	339.84	356.36	364.62	377.60	404.74	441.32	481.44
33.0	234.82	236.00	241.90	252.52	266.68	276.12	285.56	310.34	342.20	379.96
37.5	169.92	171.10	175.82	182.90	191.16	197.06	206.50	227.74	253.70	284.38
42.5	122.72	123.90	126.26	130.98	136.88	142.78	148.68	161.66	179.36	202.96
47.5	93.22	94.40	95.58	99.12	102.66	106.20	110.92	119.18	132.16	147.50
55.0	66.08	66.08	67.26	68.44	70.80	73.16	75.52	81.42	87.32	95.58
65.0	42.48	42.48	42.48	43.66	44.84	44.84	46.02	48.38	50.74	54.28
75.0	23.60	23.60	23.60	23.60	23.60	24.78	24.78	25.96	25.96	27.14
85.0	0.00	0.00	0.00	0.00	0.00	0.00	1.18	1.18	1.18	2.36
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	1063.18	1063.18	1063.18	1063.18	1063.18	1063.18	1063.18	1063.18	1063.18
1.0	1073.80	1074.98	1076.16	1077.34	1078.52	1079.70	1079.70	1079.70	1082.06
3.0	1069.08	1071.44	1074.98	1076.16	1077.34	1080.88	1082.06	1079.70	1079.70
5.0	1059.64	1062.00	1065.54	1069.08	1072.62	1074.98	1079.70	1077.34	1077.34
7.0	1039.58	1045.48	1051.38	1057.28	1062.00	1066.72	1072.62	1072.62	1072.62
9.0	1012.44	1023.06	1032.50	1040.76	1050.20	1056.10	1062.00	1066.72	1067.90
11.0	981.76	994.74	1008.90	1026.60	1037.22	1046.66	1054.92	1056.10	1057.28
13.0	947.54	966.42	984.12	1000.64	1015.98	1027.78	1040.76	1043.12	1045.48
15.0	903.88	927.48	949.90	972.32	992.38	1011.26	1024.24	1032.50	1034.86
17.0	856.68	885.00	914.50	941.64	965.24	985.30	1001.82	1014.80	1018.34
19.5	794.14	830.72	866.12	899.16	927.48	958.16	975.86	985.30	988.84
22.5	715.08	757.56	798.86	840.16	876.74	909.78	932.20	947.54	951.08
25.5	627.76	676.14	724.52	771.72	815.38	854.32	883.82	902.70	908.60
29.0	528.64	579.38	633.66	687.94	737.50	782.34	818.92	838.98	847.24
33.0	427.16	476.72	531.00	587.64	641.92	692.66	732.78	755.20	763.46
37.5	323.32	369.34	421.26	475.54	529.82	579.38	621.86	647.82	654.90
42.5	233.64	269.04	312.70	359.90	408.28	453.12	493.24	516.84	525.10
47.5	168.74	194.70	226.56	263.14	302.08	339.84	371.70	391.76	400.02
55.0	106.20	120.36	139.24	160.48	184.08	208.86	228.92	241.90	247.80
65.0	59.00	64.90	71.98	81.42	92.04	102.66	112.10	118.00	120.36
75.0	29.50	31.86	34.22	36.58	40.12	43.66	47.20	49.56	50.74
85.0	4.72	7.08	8.26	8.26	9.44	9.44	9.44	9.44	9.44
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_S1.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	330.83	N.A.	25.60
0-30	608.43	N.A.	47.10
0-40	830.84	N.A.	64.30
0-60	1129.43	N.A.	87.50
0-80	1270.62	N.A.	98.40
0-90	1291.25	N.A.	100.00
10-90	1211.3	N.A.	93.80
20-40	500.01	N.A.	38.70
20-50	696.30	N.A.	53.90
40-70	389.06	N.A.	30.10
60-80	141.19	N.A.	10.90
70-80	50.72	N.A.	3.90
80-90	20.63	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	1291.25	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	79.95
10-20	250.88
20-30	277.61
30-40	222.40
40-50	196.29
50-60	102.30
60-70	90.47
70-80	50.72
80-90	20.63
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

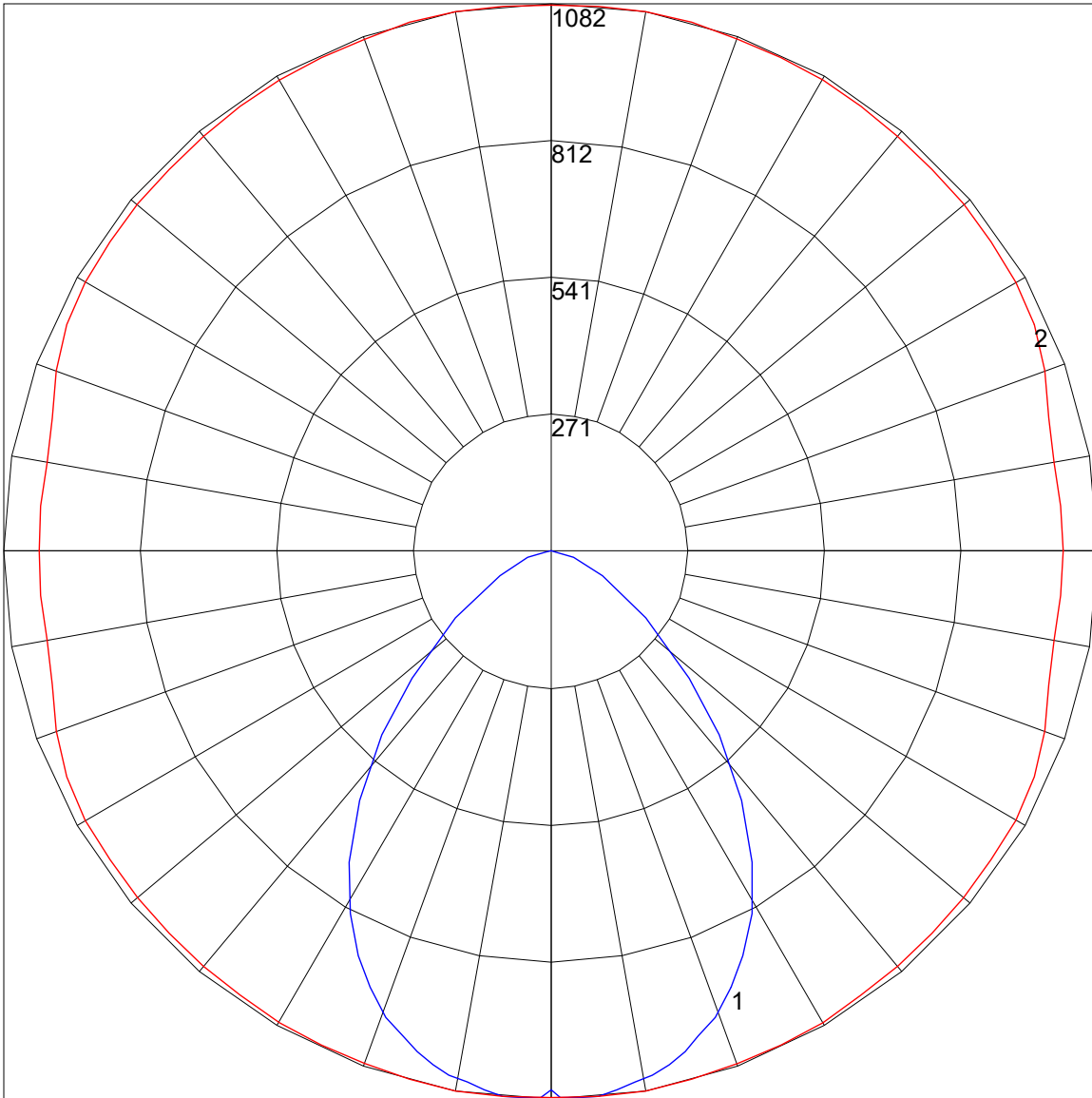
IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_107_BX_SO_35_S1.IES

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	86	100	94	89	85	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	45	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 = 1082.06 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.)