

IES Report

BoxRail® | 107 | 120° Batwing Lens | 90 CRI | LO

107-BX-XX-4-48-XX-XX-XX-XX-X-X-Z-LO-359-G1-X-AL / WH-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	84	87	89	91
Total Lumens, 4' rail length (1219mm)	1254	1294	1320	1347
Lumens per foot (305mm)	314	323	330	337
Input Power (W), 4' rail length (1219mm)	15.0	15.0	15.0	15.0
Watts per foot (305mm)	3.8	3.8	3.8	3.8
CRI	96	96	96	96

Due to the large number of options in Vode's product offering, most Vode IES reports are factored reports prepared from source reports. Source reports are the IES test reports prepared for Vode by an NVLAP accredited photometric test laboratory. Factored reports are based on data from the Vode source reports.

If the data above is in black, it is directly from a Vode source report. If it is in grey, it is factored from Vode source reports. Reference details on Vode source reports can be found on the [IES File Finder](#) page on [vode.com](#).



IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_107_BX_LO_359_G1.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L011800114 (SOURCE REPORT FOR REFERENCE)
 [TESTLAB] REPORT BASED ON DATA PRODUCED BY NVLAP ACCREDITED LAB
 [ISSUEDATE] 1/4/2018
 [MANUFAC] Vode Lighting
 [LUMCAT] 107-BX-48-Z-LO-359-G1
 [LUMINAIRE] BoxRail LED, 48", 3500K, 90 CRI, zipper board,
 [MORE] 120° batwing lens up with white polycarbonate reflectors, low output
 [TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1320
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	88
Total Luminaire Watts	14.95
Ballast Factor	1.00
CIE Type	Indirect
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.08 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	0	0	0
55	0	0	0
65	0	0	0
75	0	0	0
85	0	0	0

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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95	25.5	26.0	26.5	27.5	28.5	29.5	30.5	30.5	30.0	28.0
100	75.5	75.5	76.0	76.5	76.5	76.5	76.0	75.0	72.0	68.0
105	128.0	128.0	128.0	128.5	128.5	128.5	127.5	125.0	121.0	114.0
110	185.0	184.5	185.0	185.0	185.0	184.0	182.5	179.0	173.0	163.0
115	242.5	242.5	242.5	242.5	241.5	240.0	237.0	232.0	223.5	210.5
120	298.0	298.0	297.5	296.5	295.5	292.5	288.5	281.0	270.0	254.0
125	349.0	348.5	347.5	346.0	343.5	339.5	333.5	324.0	310.5	292.0
130	392.5	392.0	390.5	388.0	384.5	379.0	371.0	359.5	343.5	323.0
135	426.5	426.0	424.0	420.5	416.0	409.0	399.0	385.5	368.0	346.0
140	450.0	449.5	447.0	443.0	437.0	428.5	417.0	402.0	383.0	360.0
145	462.0	461.0	458.0	453.0	446.0	436.0	423.5	407.0	387.5	365.0
150	459.0	458.0	454.0	448.5	440.5	430.0	416.5	400.5	382.0	362.5
155	438.5	437.5	433.5	428.5	420.5	410.5	398.5	384.5	369.0	353.0
160	405.0	404.0	401.0	396.5	390.0	382.0	372.5	362.0	350.5	339.0
165	364.5	364.0	362.0	359.0	355.0	349.5	344.0	337.5	331.0	324.0
170	329.5	329.5	328.0	327.0	325.0	323.0	320.5	317.5	314.5	311.5
175	308.0	308.0	307.5	307.5	307.0	306.5	306.0	305.0	304.5	304.0
180	301.5	301.5	301.5	301.5	301.5	301.5	301.5	301.5	301.5	301.5

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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA TABULATION - (Cont.)

65	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95	25.5	22.0	19.0	16.0	14.5	13.5	13.5	13.5	13.0
100	61.5	54.5	47.0	42.0	38.5	37.0	36.5	36.5	36.0
105	104.0	92.5	81.0	72.5	67.0	64.5	63.5	62.5	62.0
110	149.0	133.0	117.0	104.5	97.0	93.0	90.5	89.5	89.5
115	193.0	172.5	152.5	136.5	126.5	120.5	117.5	116.0	115.5
120	233.5	209.0	185.5	166.5	154.0	146.5	142.5	140.5	140.0
125	268.5	242.0	216.0	193.5	179.0	170.0	165.0	163.0	162.5
130	297.5	269.0	241.5	218.5	202.5	192.0	186.0	183.0	182.5
135	319.5	290.5	263.0	240.0	223.5	212.0	205.0	201.5	200.5
140	333.5	306.0	280.5	258.0	242.0	230.5	223.0	219.0	218.0
145	340.5	316.0	293.0	273.0	258.0	247.0	239.5	235.5	234.5
150	341.0	320.5	301.0	284.0	271.0	261.5	254.5	251.0	250.0
155	336.0	320.0	305.0	292.0	281.5	274.0	268.0	265.0	264.0
160	327.0	316.0	306.0	297.0	289.5	284.0	280.0	277.5	277.0
165	317.0	311.0	305.0	299.5	295.0	292.0	289.5	288.0	287.5
170	308.5	306.0	303.0	301.0	299.0	297.5	296.5	295.5	295.5
175	303.0	302.5	302.0	301.5	301.0	300.5	300.5	300.5	300.0
180	301.5	301.5	301.5	301.5	301.5	301.5	301.5	301.5	301.5

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	0.00	N.A.	0.00
0-30	0.00	N.A.	0.00
0-40	0.00	N.A.	0.00
0-60	0.00	N.A.	0.00
0-80	0.00	N.A.	0.00
0-90	0.00	N.A.	0.00
10-90	0.00	N.A.	0.00
20-40	0.00	N.A.	0.00
20-50	0.00	N.A.	0.00
40-70	0.00	N.A.	0.00
60-80	0.00	N.A.	0.00
70-80	0.00	N.A.	0.00
80-90	0.00	N.A.	0.00
90-110	136.97	N.A.	10.40
90-120	324.78	N.A.	24.60
90-130	564.23	N.A.	42.70
90-150	1036.26	N.A.	78.50
90-180	1320.32	N.A.	100.00
110-180	1183.34	N.A.	89.60
0-180	1320.32	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	0.00
10-20	0.00
20-30	0.00
30-40	0.00
40-50	0.00
50-60	0.00
60-70	0.00
70-80	0.00
80-90	0.00
90-100	28.86
100-110	108.11
110-120	187.81
120-130	239.45
130-140	250.54
140-150	221.49
150-160	162.22
160-170	92.56
170-180	29.27

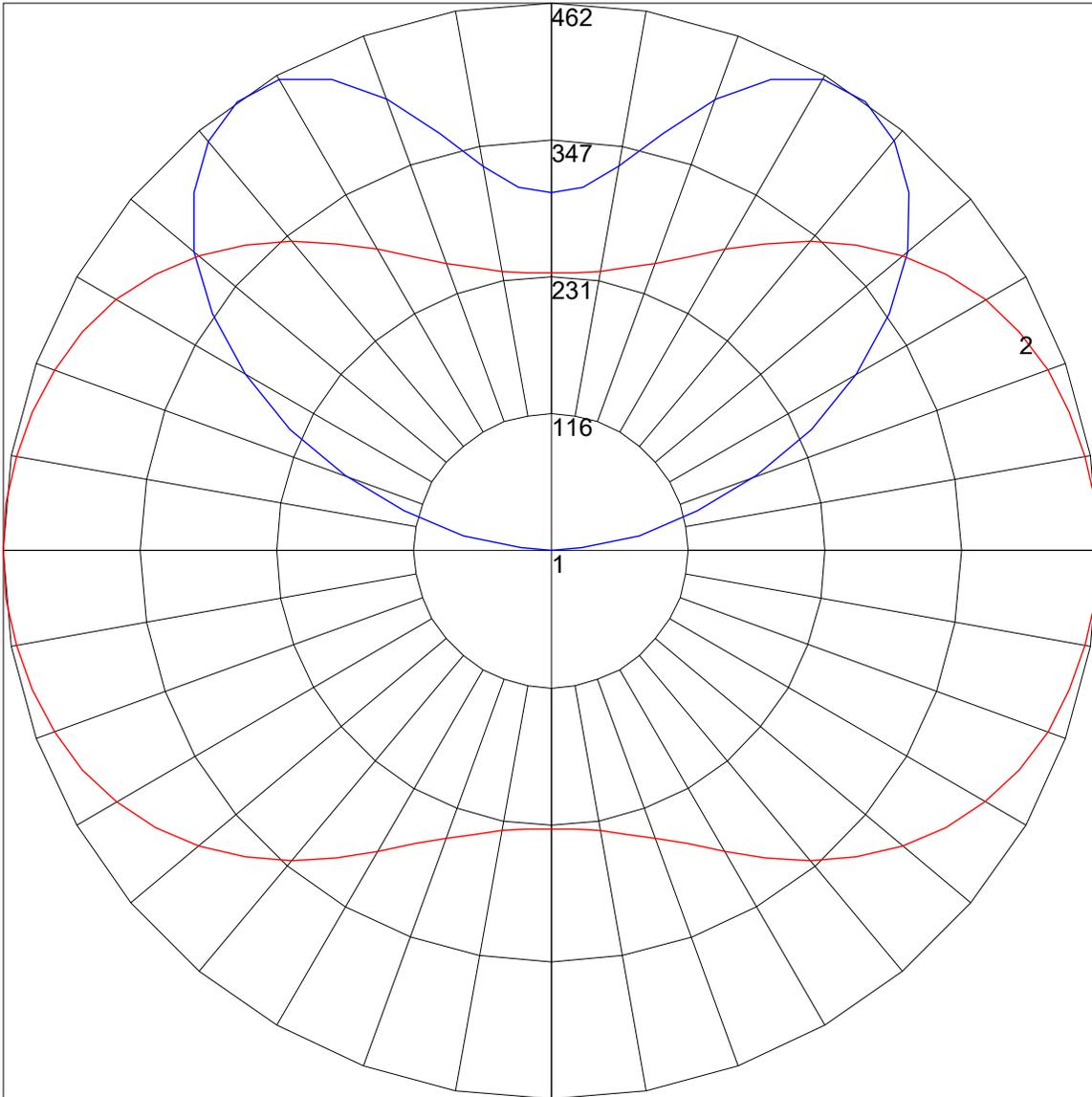
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	
0	95	95	95	95	81	81	81	81	56	56	56	32	32	32	10	10	10	0
1	87	83	79	76	74	71	68	65	48	47	45	28	27	26	9	9	8	0
2	79	72	66	62	67	62	57	53	42	40	37	24	23	22	8	7	7	0
3	72	63	56	51	61	54	49	44	37	34	31	21	20	18	7	6	6	0
4	65	56	48	43	56	48	42	37	33	29	26	19	17	16	6	6	5	0
5	60	49	42	36	51	42	36	32	29	25	22	17	15	13	5	5	4	0
6	55	44	36	31	47	38	32	27	26	22	19	15	13	11	5	4	4	0
7	50	39	32	27	43	34	28	23	23	19	17	14	11	10	4	4	3	0
8	47	35	28	23	40	30	24	20	21	17	14	12	10	9	4	3	3	0
9	43	32	25	20	37	28	22	18	19	15	13	11	9	8	4	3	3	0
10	40	29	22	18	34	25	19	16	17	14	11	10	8	7	3	3	2	0

POLAR GRAPH



Maximum Candela = 462 Located At Horizontal Angle = 0, Vertical Angle = 145
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (145) (Through Max. Cd.)