

IES Report

BoxRail® | 107 | Wide Batwing | 90 CRI | LO

107-BX-XX-4-48-XX-XX-XX-XX-X-X-Z-LO-359-G1-X-XX-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	94	97	99	100
Total Lumens, 4' rail length (1219mm)	1293	1334	1361	1375
Lumens per foot (305mm)	323	333	340	344
Input Power (W), 4' rail length (1219mm)	13.8	13.8	13.8	13.8
Watts per foot (305mm)	3.5	3.5	3.5	3.5
CRI	94	94	94	94

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] L022010902 (SOURCE REPORT FOR REFERENCE)

[TESTLAB] REPORT BASED ON DATA FROM NVLAP ACCREDITED LAB

[ISSUE DATE] 12/23/2019

[MANUFAC] Vode Lighting

[LUMCAT] 107-BX-48-Z-LO-359-G1

[LUMINAIRE] BoxRail LED, 48", 3500K, 90 CRI, zipper board, wide batwing lens up,

[MORE] low output, clear anodized finish

[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1348
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	98
Total Luminaire Watts	13.82
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 w/Sides
Luminous Length (0-180)	0.08 ft
Luminous Width (90-270)	4.00 ft
Luminous Height	0.09 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

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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>
90	2.440	2.440	2.440	2.440	2.440	2.440	2.440	2.440	2.440	2.440
95	11.360	13.975	13.185	13.485	13.940	14.705	15.085	18.115	19.845	21.180
100	43.880	46.055	47.140	49.385	52.275	55.355	58.905	61.905	65.915	66.265
105	105.325	98.105	104.990	107.740	110.880	116.010	119.900	123.180	126.285	125.490
110	196.360	189.900	190.550	194.700	201.410	201.770	208.755	203.610	198.460	186.135
115	314.090	312.800	301.720	296.015	293.335	291.705	283.705	272.480	258.235	240.600
120	399.715	397.215	391.710	381.355	371.845	358.540	344.415	328.385	303.710	277.875
125	455.415	452.505	445.750	437.215	426.545	406.415	388.250	361.930	335.550	305.845
130	479.225	476.655	469.290	458.145	444.570	426.500	403.545	378.640	350.155	320.870
135	478.970	476.805	469.920	459.085	444.100	426.735	404.785	382.030	355.725	329.455
140	463.465	461.255	455.010	445.300	432.395	416.355	397.405	376.775	354.715	332.045
145	438.985	437.015	432.025	424.310	413.375	400.065	384.545	366.920	348.635	329.980
150	410.485	408.705	405.055	398.765	390.375	379.775	367.315	353.800	340.000	324.995
155	380.895	379.600	377.185	372.375	366.305	358.540	349.405	339.595	329.405	319.095
160	353.065	352.380	350.400	347.685	343.365	338.440	332.780	325.975	318.835	312.440
165	329.220	328.715	327.465	325.990	323.990	321.005	317.690	314.065	310.160	305.640
170	311.405	311.130	310.525	309.850	309.015	308.035	306.910	305.130	303.285	301.360
175	300.720	300.590	300.485	300.170	299.935	299.680	299.405	299.110	298.800	298.475
180	297.000	297.000	297.000	297.000	297.000	297.000	297.000	297.000	297.000	297.000

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>
90	2.440	2.440	2.440	2.440	2.440	2.440	2.440	2.440	2.440
95	21.495	26.595	25.975	20.845	19.390	19.520	19.135	18.425	18.820
100	66.160	65.885	61.020	54.355	49.815	45.795	42.195	40.820	40.990
105	122.045	112.555	101.560	88.595	78.890	71.685	66.515	63.895	63.495
110	169.025	153.670	136.890	119.665	106.715	98.010	91.720	88.540	88.395
115	217.335	191.615	168.530	148.705	133.620	123.295	116.180	112.385	112.075
120	250.220	220.910	195.520	175.165	158.815	147.655	140.840	136.445	134.665
125	274.320	245.225	219.455	198.130	181.050	169.330	162.285	158.025	155.915
130	291.730	264.505	240.150	219.175	202.210	189.475	180.895	175.455	171.380
135	302.965	278.425	255.835	237.070	221.485	209.655	201.840	196.980	194.975
140	309.200	288.360	268.810	251.450	237.875	226.720	219.270	214.730	212.620
145	311.655	294.340	278.185	263.680	251.815	242.485	235.490	231.830	229.720
150	310.905	297.345	284.210	273.395	263.225	256.400	250.140	247.560	245.815
155	308.540	298.440	289.195	280.190	273.705	267.970	263.690	261.465	259.855
160	305.685	298.545	291.645	286.710	281.950	277.370	275.365	273.665	272.385
165	301.445	298.005	294.560	291.140	287.765	286.230	284.950	283.785	282.865
170	299.375	297.350	295.345	294.385	293.505	292.685	291.930	291.220	290.620
175	298.140	297.795	297.440	297.085	296.730	296.375	296.015	295.680	295.355
180	297.000	297.000	297.000	297.000	297.000	297.000	297.000	297.000	297.000

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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	135.19	N.A.	10.00
90-120	350.82	N.A.	26.00
90-130	619.75	N.A.	46.00
90-150	1084.21	N.A.	80.40
90-180	1347.9	N.A.	100.00
110-180	1212.7	N.A.	90.00
0-180	1347.9	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	25.34
100-110	109.86
110-120	215.62
120-130	268.93
130-140	256.14
140-150	208.32
150-160	148.12
160-170	87.00
170-180	28.56

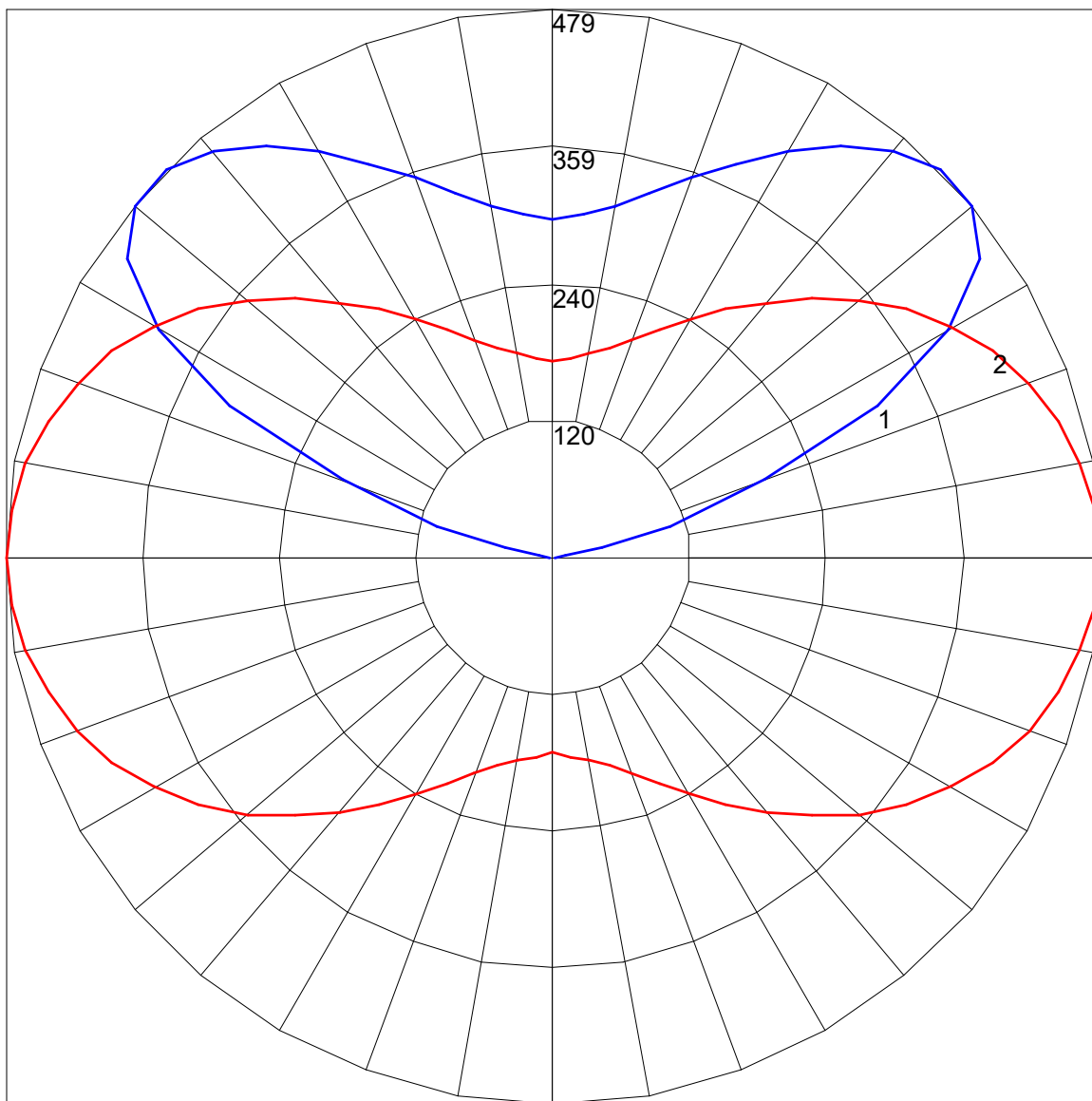
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	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	27	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 = 479.225 Located At Horizontal Angle = 0, Vertical Angle = 130
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Horizontal Cone Through Vertical Angle (130) (Through Max. Cd.)