

IES Report

BoxRail® | 207 | Wide Batwing, up | Diffuse, down | 90 CRI | LO

207-BX-XX-4-48-XX-XX-XX-XX-X-X-Z-LO-359-G1D1-X-BL-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	67	69	71	71
Total Lumens, 4' rail length (1219mm)	1913	1973	2013	2034
Lumens per foot (305mm)	478	493	503	508
Lumens per foot UP (305mm)	298	308	314	317
Lumens per foot DOWN (305mm)	180	185	189	191
Input Power (W), 4' rail length (1219mm)	28.8	28.8	28.8	28.8
Watts per foot (305mm)	7.2	7.2	7.2	7.2
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_207_BX_LO_359_G1D1_BL.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L022010913 (SOURCE REPORT FOR REFERENCE)

[TESTLAB] REPORT BASED ON DATA FROM NVLAP ACCREDITED LAB

[ISSUE DATE] 12/23/2019

[MANUFAC] Vode Lighting

[LUMCAT] 207-BX-48-Z-LO-359-G1D1-BL

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

[MORE] diffuse lens down, low output, black anodized finish

[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2013
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	70
Total Luminaire Watts	28.76
Ballast Factor	1.00
CIE Type	Semi-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	3951	4742	8486
55	3000	3731	8096
65	1957	2537	7414
75	923	1288	6280
85	124	230	4216

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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>
0	280.055	280.055	280.055	280.055	280.055	280.055	280.055	280.055	280.055	280.055
5	278.550	278.430	278.315	278.245	278.175	278.115	278.075	278.050	278.040	278.050
10	274.565	274.360	274.255	274.190	274.185	274.245	274.355	274.145	274.025	273.985
15	267.695	267.420	267.395	267.490	267.610	267.340	267.270	267.400	267.730	267.835
20	258.470	258.165	258.305	258.460	258.185	258.180	258.290	258.125	258.285	258.355
25	247.030	246.640	246.740	246.570	246.720	246.745	246.770	247.235	246.795	246.690
30	233.075	232.830	232.940	232.815	232.865	232.930	233.120	233.015	233.065	233.090
35	216.475	216.265	216.215	216.430	216.470	216.765	217.105	216.905	217.310	217.490
40	197.405	197.295	197.280	197.450	197.855	198.445	198.520	198.955	199.575	199.975
45	176.660	176.780	176.885	177.205	177.465	177.730	178.345	179.295	179.590	180.725
50	155.995	155.805	155.675	155.870	156.275	156.600	157.390	158.035	158.580	159.775
55	133.490	133.275	133.440	133.660	133.370	132.625	133.030	133.975	135.425	137.485
60	109.770	109.605	109.010	107.240	106.660	106.660	107.520	108.475	110.335	112.555
65	83.990	83.780	80.715	79.910	80.295	81.345	82.620	83.745	85.545	87.435
70	58.885	56.400	55.390	56.875	57.975	58.820	59.415	59.685	61.075	63.300
75	36.965	34.105	35.885	36.325	36.225	36.320	36.525	36.915	38.385	39.950
80	16.850	17.000	17.375	17.765	17.925	18.180	18.405	18.875	19.430	20.145
85	4.445	5.270	4.720	4.645	4.630	4.860	4.570	5.185	5.705	6.135
90	2.565	2.620	2.620	2.660	2.640	2.600	2.555	2.430	2.305	2.115
95	5.155	8.255	7.675	8.520	9.825	11.820	14.315	19.240	24.375	30.300
100	30.555	32.655	34.690	38.725	45.200	52.220	61.810	74.045	85.160	88.855
105	82.860	82.910	91.310	99.385	108.070	127.010	144.645	157.410	170.220	167.065
110	206.710	208.395	217.415	221.235	251.970	265.860	288.065	299.615	280.255	234.780
115	433.075	429.200	415.700	423.075	422.755	432.940	404.835	369.700	318.585	254.045
120	583.795	576.310	556.185	531.915	515.485	470.995	428.365	371.870	311.240	254.935
125	572.185	566.880	551.420	526.505	493.275	450.035	401.435	352.080	302.300	256.375
130	505.880	501.775	490.460	471.070	442.960	409.725	373.350	334.795	296.970	263.345
135	450.260	446.825	438.195	423.365	402.810	376.845	351.165	322.365	294.625	267.725
140	406.465	404.275	397.665	386.800	372.290	354.485	333.825	312.520	290.285	269.920
145	372.135	370.165	364.825	356.485	344.965	331.355	315.870	298.930	281.895	264.620
150	336.010	334.540	330.905	324.445	316.000	305.720	293.840	280.980	267.680	253.440
155	300.130	299.110	296.800	292.290	286.440	279.110	270.470	260.895	251.640	242.175
160	268.530	268.025	266.315	263.955	260.270	255.900	250.765	244.610	237.925	232.260
165	245.230	244.900	243.955	242.755	241.060	238.485	235.610	232.465	229.070	225.130
170	229.345	229.075	228.540	227.900	227.115	226.185	225.125	223.555	221.895	220.150
175	218.615	218.510	218.405	218.175	217.970	217.745	217.495	217.225	216.935	216.635
180	214.000	214.000	214.000	214.000	214.000	214.000	214.000	214.000	214.000	214.000

**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>
0	280.055	280.055	280.055	280.055	280.055	280.055	280.055	280.055	280.055
5	278.070	278.110	278.170	278.240	278.325	278.425	278.530	278.660	278.800
10	274.020	274.135	274.315	274.235	274.205	274.235	274.325	274.465	274.690
15	267.735	267.470	267.385	267.480	267.780	267.630	267.615	267.710	268.030
20	258.310	258.290	258.480	258.230	258.240	258.540	258.370	258.390	258.805
25	247.065	246.935	246.730	246.995	246.810	246.865	247.005	246.915	247.405
30	233.105	233.140	233.150	233.155	233.645	233.410	233.665	233.430	233.955
35	217.545	217.880	217.605	217.680	217.835	217.895	217.960	217.910	218.235
40	200.290	200.335	200.435	200.535	200.510	200.735	200.590	200.830	201.555
45	180.755	181.080	181.860	181.520	181.295	182.160	182.310	182.420	182.570
50	160.720	161.580	161.940	162.105	162.285	162.950	163.195	163.205	163.080
55	138.455	139.685	140.775	141.630	141.940	142.095	142.135	142.250	142.625
60	114.630	116.515	117.300	118.785	119.655	120.020	120.250	120.220	120.540

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CANDELA TABULATION - (Cont.)

65	89.805	91.955	93.715	95.185	96.170	97.065	97.745	97.695	97.740
70	65.415	67.625	69.880	71.415	72.725	74.050	75.310	75.000	75.230
75	42.200	44.695	47.245	47.875	49.215	50.895	52.185	52.495	52.430
80	21.130	23.005	24.650	25.500	27.340	28.735	31.575	34.795	33.195
85	6.430	6.685	7.440	8.245	8.945	10.130	11.990	13.355	13.745
90	1.930	1.720	1.510	1.340	1.215	1.110	1.005	1.175	1.675
95	31.315	28.830	24.990	18.060	13.365	12.820	14.770	14.740	15.045
100	86.215	74.260	56.640	42.710	38.090	37.000	37.890	37.450	37.510
105	147.525	113.990	83.380	64.995	58.055	56.215	56.570	57.940	59.515
110	185.095	136.930	104.040	86.745	80.125	79.125	81.520	84.235	85.210
115	195.825	152.775	124.935	109.630	103.360	102.800	105.625	108.645	110.230
120	206.180	169.105	147.135	133.780	127.670	126.525	128.300	131.160	133.280
125	219.215	189.520	169.825	156.080	149.560	147.035	146.900	148.095	149.250
130	232.735	209.505	190.790	176.725	167.865	163.425	160.515	158.595	157.715
135	244.445	223.850	206.915	193.065	182.425	174.240	167.840	163.510	161.280
140	249.885	232.070	215.840	201.750	190.065	179.990	172.135	167.130	164.380
145	247.735	232.120	217.570	204.580	193.340	183.980	176.265	172.185	169.535
150	240.330	227.725	215.625	205.500	195.590	188.640	181.895	179.290	177.160
155	232.220	223.035	214.670	206.195	199.950	194.200	189.840	187.680	185.965
160	226.400	220.105	213.820	209.190	204.640	200.145	198.265	196.600	195.270
165	221.385	218.185	214.950	211.705	208.415	206.890	205.520	204.235	203.150
170	218.325	216.435	214.540	213.615	212.725	211.875	211.070	210.295	209.600
175	216.315	215.990	215.655	215.310	214.965	214.615	214.265	213.925	213.585
180	214.000	214.000	214.000	214.000	214.000	214.000	214.000	214.000	214.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	101.92	N.A.	5.10
0-30	215.65	N.A.	10.70
0-40	351.49	N.A.	17.50
0-60	612.81	N.A.	30.40
0-80	746.18	N.A.	37.10
0-90	756.75	N.A.	37.60
10-90	730.31	N.A.	36.30
20-40	249.57	N.A.	12.40
20-50	388.36	N.A.	19.30
40-70	349.30	N.A.	17.30
60-80	133.37	N.A.	6.60
70-80	45.40	N.A.	2.30
80-90	10.56	N.A.	0.50
90-110	140.24	N.A.	7.00
90-120	391.74	N.A.	19.50
90-130	667.14	N.A.	33.10
90-150	1059.02	N.A.	52.60
90-180	1256.72	N.A.	62.40
110-180	1116.48	N.A.	55.50
0-180	2013.47	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	26.44
10-20	75.48
20-30	113.73
30-40	135.84
40-50	138.79
50-60	122.53
60-70	87.98
70-80	45.40
80-90	10.56
90-100	24.19
100-110	116.05
110-120	251.50
120-130	275.40
130-140	223.52
140-150	168.36
150-160	112.88
160-170	64.07
170-180	20.76

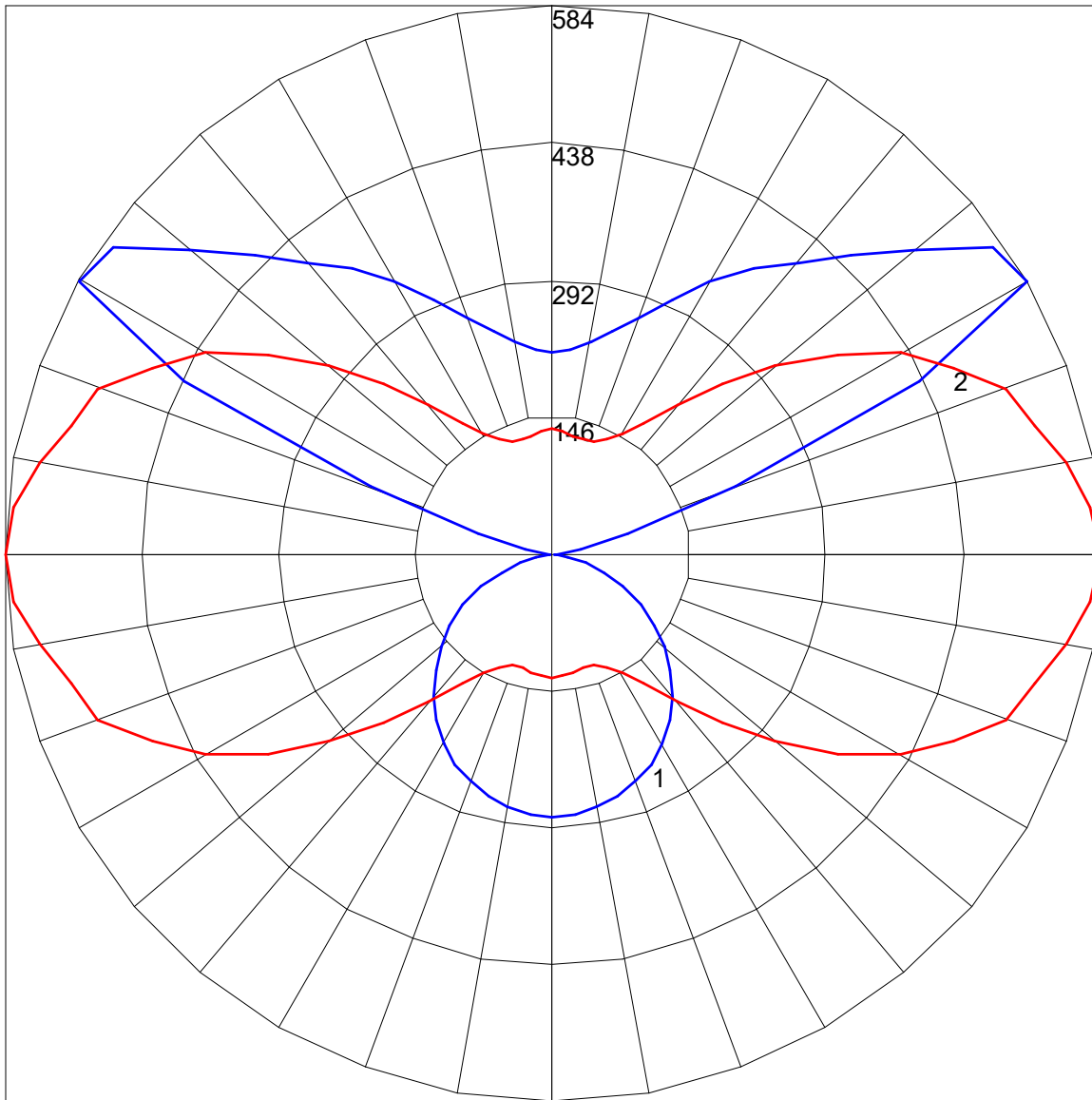
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	104	104	104	104	95	95	95	95	76	76	76	60	60	60	45	45	45	38
1	95	91	87	84	86	83	79	76	67	65	63	53	51	50	40	39	38	32
2	87	79	73	68	78	72	67	63	59	55	52	46	44	42	35	33	32	27
3	79	70	62	57	71	63	57	52	52	47	44	41	38	35	31	29	27	23
4	72	62	54	48	65	56	49	44	46	41	37	36	33	30	28	25	23	19
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	22	20	17
6	61	49	41	35	55	45	38	33	37	32	28	29	26	23	22	20	18	15
7	56	44	36	31	51	40	33	29	33	28	24	27	23	20	20	18	16	13
8	52	40	32	27	47	37	30	25	30	25	21	24	20	18	19	16	14	12
9	48	36	29	24	44	33	27	22	28	23	19	22	19	16	17	15	13	10
10	45	33	26	21	41	31	24	20	25	21	17	21	17	14	16	13	11	9

POLAR GRAPH



Maximum Candela = 583.795 Located At Horizontal Angle = 0, Vertical Angle = 120
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Horizontal Cone Through Vertical Angle (120) (Through Max. Cd.)