

IES Report

BoxRail® | 207 | Wide Batwing, up | 120° Flywing, down | 90 CRI | LO

207-BX-XX-4-48-XX-XX-XX-XX-X-X-Z-LO-359-G1G2-X-BL-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	88	90	92	93
Total Lumens, 4' rail length (1219mm)	2505	2584	2636	2663
Lumens per foot (305mm)	626	646	659	666
Lumens per foot UP (305mm)	294	304	310	313
Lumens per foot DOWN (305mm)	332	342	349	353
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_G1G2_BL.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L022010914 (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-G1G2-BL

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

[MORE] 120° flywing 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	2636
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	92
Total Luminaire Watts	28.76
Ballast Factor	1.00
CIE Type	General Diffuse
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	9664	10004	11963
55	7043	7936	11399
65	4201	5019	10349
75	1288	2084	7897
85	103	195	2789

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_207_BX_LO_359_G1G2_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	440.160	440.160	440.160	440.160	440.160	440.160	440.160	440.160	440.160	440.160
5	446.195	445.855	445.510	444.995	444.520	444.015	443.490	442.940	442.375	441.800
10	463.085	462.365	461.235	459.940	458.405	456.650	454.675	451.565	448.385	445.120
15	486.095	485.005	483.110	480.830	477.735	472.850	467.605	462.045	456.215	449.350
20	507.220	505.810	503.435	500.070	494.350	488.080	480.955	472.075	462.960	453.510
25	519.875	518.115	515.850	510.865	505.000	497.375	488.395	479.170	466.270	452.855
30	518.785	517.330	514.990	510.125	504.120	496.700	488.090	476.070	462.265	447.050
35	503.785	502.170	499.535	496.010	490.325	484.000	476.505	463.105	449.915	433.835
40	473.940	472.950	470.600	467.330	463.555	459.215	450.410	439.980	428.050	411.605
45	432.115	431.385	429.645	427.310	424.405	421.155	413.950	407.060	393.960	381.305
50	376.915	375.880	374.835	374.230	374.185	372.235	367.930	362.050	352.060	339.040
55	313.335	312.985	313.275	313.200	310.940	307.960	306.610	303.040	298.800	292.425
60	247.995	247.420	246.255	242.030	240.095	238.830	239.100	238.195	236.575	232.575
65	180.305	179.385	171.355	169.895	171.570	173.460	175.285	174.850	173.940	172.960
70	108.175	104.000	101.760	104.310	108.505	111.280	112.940	114.965	116.985	117.515
75	51.550	47.495	51.805	53.465	54.805	56.630	57.820	58.680	62.320	64.660
80	12.280	15.175	14.675	15.640	16.395	17.775	19.140	21.370	23.145	26.780
85	3.690	4.380	4.130	4.040	3.975	4.080	3.820	4.010	4.430	5.205
90	3.480	3.540	3.540	3.520	3.520	3.480	3.435	3.310	3.125	2.915
95	5.785	8.815	8.030	8.825	10.120	11.900	14.010	19.585	22.095	29.185
100	29.255	32.010	34.350	38.355	44.505	50.990	59.380	69.085	77.935	81.040
105	76.865	78.275	86.580	93.780	102.510	118.825	134.150	144.875	152.785	147.345
110	176.240	179.440	188.665	195.280	221.365	236.555	252.885	262.655	251.780	213.115
115	365.430	364.410	360.840	375.215	374.105	389.815	368.315	341.695	299.860	244.985
120	533.960	528.155	512.500	494.420	481.895	444.805	409.310	361.305	306.315	254.350
125	555.840	549.665	534.990	513.110	486.515	443.870	399.065	352.490	305.015	260.885
130	507.930	503.995	492.725	473.735	446.270	414.120	379.205	341.495	304.665	270.890
135	460.700	458.210	448.780	434.115	414.075	389.300	363.190	334.440	305.825	277.980
140	424.735	422.435	415.140	403.665	388.635	370.250	348.740	326.550	303.365	280.625
145	392.045	389.945	384.120	375.040	362.535	347.905	331.500	312.660	293.840	274.600
150	354.785	353.000	348.715	341.250	331.530	319.835	306.575	292.140	277.155	261.320
155	312.955	311.720	308.985	303.865	297.200	288.900	279.180	268.420	257.980	247.270
160	275.700	275.020	273.205	270.485	266.310	261.365	255.575	248.695	241.175	234.820
165	248.285	247.770	246.710	245.290	243.360	240.585	237.435	233.935	230.105	225.680
170	229.720	229.425	228.915	228.255	227.425	226.430	225.270	223.570	221.775	219.885
175	218.235	218.090	217.905	217.725	217.500	217.250	216.980	216.690	216.385	216.065
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	440.160	440.160	440.160	440.160	440.160	440.160	440.160	440.160	440.160
5	441.220	440.635	440.050	439.475	438.910	438.355	437.795	437.295	436.810
10	441.805	438.455	435.160	433.490	431.930	430.480	429.145	427.905	426.875
15	442.710	436.880	431.175	425.635	420.190	417.540	415.240	413.165	411.575
20	443.245	432.420	422.010	413.975	406.430	399.300	396.055	393.305	391.415
25	439.480	425.320	411.360	398.090	388.035	379.155	372.605	369.210	367.065
30	430.435	413.330	396.455	380.630	366.095	355.935	346.935	343.245	341.080
35	415.205	396.745	376.965	358.810	342.730	330.155	320.665	315.635	312.830
40	393.590	372.815	352.540	332.780	316.225	302.510	293.240	287.470	284.585
45	361.750	343.020	322.950	303.705	287.125	273.905	265.310	259.930	257.380
50	324.070	306.175	287.895	270.585	255.265	244.235	236.545	231.555	229.050
55	278.140	263.485	248.820	233.495	221.430	212.065	205.360	201.690	200.800
60	226.175	216.915	204.315	192.350	183.170	176.390	171.910	169.130	168.070

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_207_BX_LO_359_G1G2_BL.IES

CANDELA TABULATION - (Cont.)

65	170.695	164.610	157.240	151.060	145.920	141.680	139.130	137.130	136.425
70	117.090	115.730	113.200	110.145	107.580	104.585	102.860	102.025	101.385
75	67.055	69.805	70.015	68.460	67.710	67.355	65.515	64.855	65.930
80	27.155	29.515	31.340	34.270	37.490	37.505	36.810	36.175	36.255
85	5.880	6.050	6.395	7.365	7.875	8.395	8.645	8.865	9.095
90	2.685	2.430	2.180	1.930	1.675	1.425	1.215	1.155	1.215
95	29.545	27.560	24.595	16.360	12.725	12.040	13.455	14.870	15.760
100	77.470	65.300	51.015	37.970	34.805	37.290	37.615	37.845	37.595
105	130.290	104.040	78.100	62.225	56.495	55.875	56.890	58.550	60.145
110	171.390	131.890	101.955	85.840	79.790	79.440	81.880	84.365	85.670
115	190.050	151.005	125.230	110.245	104.185	103.660	105.955	108.890	110.520
120	207.125	168.275	148.850	135.515	128.975	127.625	129.270	131.610	133.115
125	224.280	194.540	173.650	159.575	151.605	148.470	148.005	148.745	149.375
130	239.860	215.280	195.900	181.300	170.685	165.055	161.365	158.945	157.755
135	252.945	231.010	212.475	197.385	185.555	176.165	169.010	164.015	161.150
140	258.540	239.135	221.275	205.520	192.415	181.110	172.675	167.265	164.210
145	255.820	238.505	222.145	207.560	194.945	184.640	176.290	171.885	169.030
150	246.685	232.450	218.745	207.345	196.185	188.880	181.735	178.875	176.490
155	235.980	225.720	216.420	206.905	200.220	194.170	189.570	187.190	185.250
160	228.235	221.200	214.220	209.335	204.485	199.575	197.710	195.985	194.600
165	221.550	218.160	214.735	211.300	207.740	206.345	205.045	203.830	202.815
170	217.910	215.870	213.805	212.895	212.015	211.175	210.375	209.610	208.930
175	215.730	215.385	215.030	214.675	214.315	213.960	213.590	213.250	212.915
180	214.000	214.000	214.000	214.000	214.000	214.000	214.000	214.000	214.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_207_BX_LO_359_G1G2_BL.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	169.51	N.A.	6.40
0-30	375.84	N.A.	14.30
0-40	637.99	N.A.	24.20
0-60	1156.52	N.A.	43.90
0-80	1385.84	N.A.	52.60
0-90	1396.72	N.A.	53.00
10-90	1354.46	N.A.	51.40
20-40	468.49	N.A.	17.80
20-50	745.70	N.A.	28.30
40-70	679.79	N.A.	25.80
60-80	229.32	N.A.	8.70
70-80	68.05	N.A.	2.60
80-90	10.89	N.A.	0.40
90-110	130.29	N.A.	4.90
90-120	363.53	N.A.	13.80
90-130	635.69	N.A.	24.10
90-150	1039.12	N.A.	39.40
90-180	1239.76	N.A.	47.00
110-180	1109.46	N.A.	42.10
0-180	2636.48	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	42.27
10-20	127.24
20-30	206.34
30-40	262.15
40-50	277.21
50-60	241.32
60-70	161.26
70-80	68.05
80-90	10.89
90-100	23.24
100-110	107.05
110-120	233.24
120-130	272.16
130-140	229.13
140-150	174.29
150-160	115.50
160-170	64.42
170-180	20.72

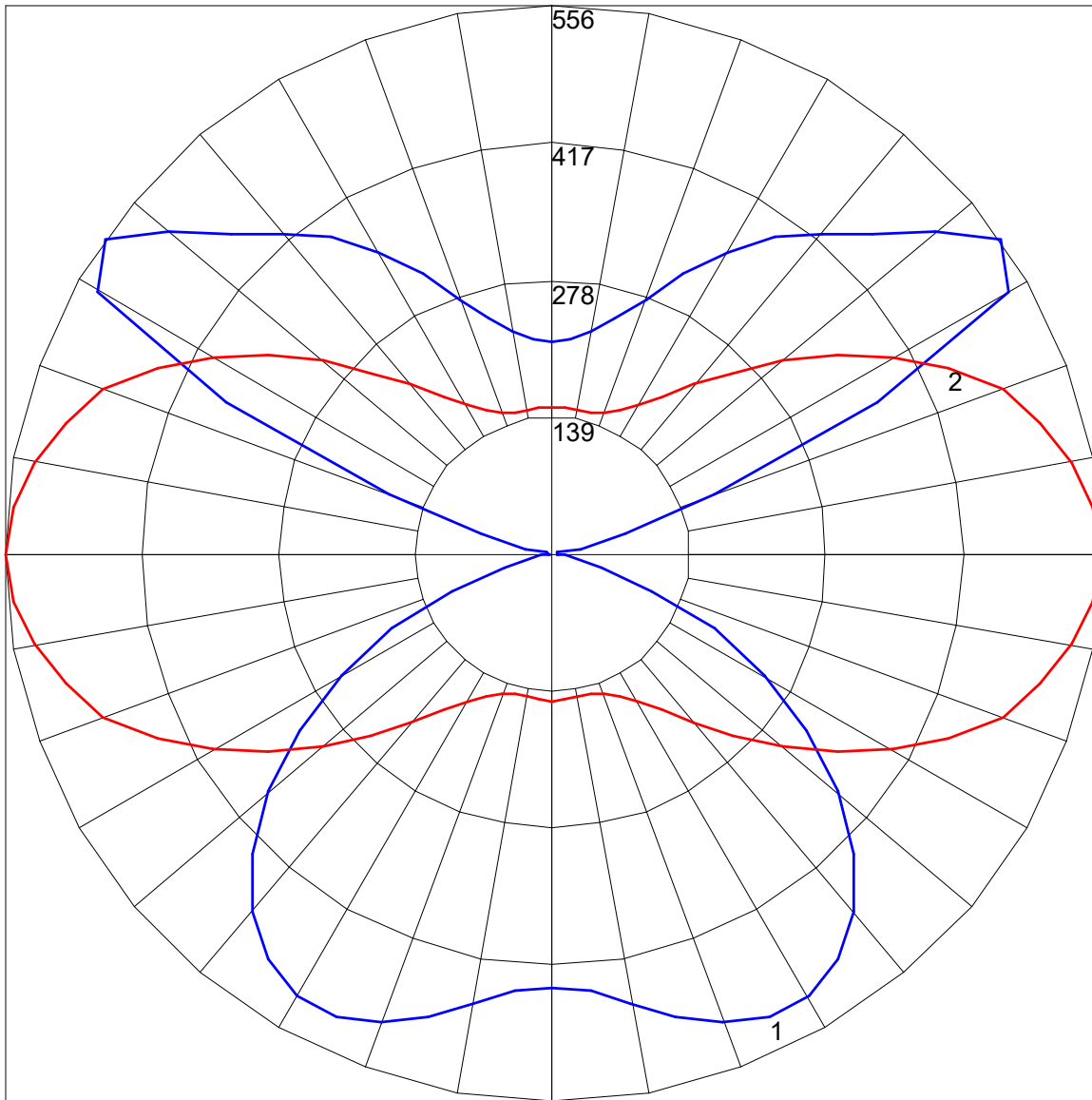
IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_207_BX_LO_359_G1G2_BL.IES

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
0	108	108	108	108	100	100	100	100	85	85	85	71	71	71	59	59	59	53
1	99	94	91	87	91	88	84	81	75	73	70	63	62	60	52	51	50	45
2	90	83	76	71	83	77	71	67	66	62	58	56	53	50	46	44	42	38
3	82	72	65	59	76	67	61	56	58	53	49	49	45	42	41	38	36	32
4	75	64	56	50	69	60	53	47	51	46	42	44	39	36	36	33	31	27
5	69	57	49	43	63	53	46	40	46	40	36	39	35	31	33	29	27	24
6	63	51	43	37	58	48	40	35	41	35	31	35	31	27	29	26	23	20
7	58	46	38	32	54	43	36	31	37	31	27	32	27	24	27	23	21	18
8	54	42	34	28	50	39	32	27	34	28	24	29	24	21	24	21	18	16
9	50	38	30	25	46	35	29	24	31	25	21	27	22	19	23	19	16	14
10	47	35	27	23	43	33	26	21	28	23	19	25	20	17	21	17	15	13

POLAR GRAPH



Maximum Candela = 555.84 Located At Horizontal Angle = 0, Vertical Angle = 125
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Horizontal Cone Through Vertical Angle (125) (Through Max. Cd.)