

IES Report

BoxRail® | 207 | Wide Batwing, up | 90 CRI | SO

207-BX-XX-4-48-XX-XX-XX-X-X-Z-SO-359-G1-X-BL-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	91	94	96	97
Total Lumens, 4' rail length (1219mm)	2294	2367	2415	2439
Lumens per foot (305mm)	574	592	604	610
Input Power (W), 4' rail length (1219mm)	25.3	25.3	25.3	25.3
Watts per foot (305mm)	6.4	6.4	6.4	6.4
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_SO_359_G1_BL.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L022010910 (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-SO-359-G1-BL

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

[MORE] standard 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	2415
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	96
Total Luminaire Watts	25.26
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	3.31	3.31	3.31	3.31	3.31	3.31	3.31	3.31	3.31	3.31
95	13.75	18.59	17.70	18.76	20.66	23.84	25.64	32.64	42.34	42.60
100	66.72	71.43	75.27	82.42	90.49	99.86	110.44	122.19	131.61	139.80
105	162.62	171.10	180.53	190.26	202.13	219.79	235.48	246.29	252.06	249.37
110	313.67	319.99	334.71	345.79	360.85	373.01	372.77	382.59	375.61	358.60
115	500.60	503.75	518.38	527.27	533.22	538.85	534.81	519.83	497.69	462.01
120	691.88	689.87	695.07	695.23	695.65	680.80	662.83	635.86	588.08	536.71
125	839.41	834.82	828.22	816.25	805.08	776.29	747.73	698.56	647.79	589.99
130	917.54	912.70	898.77	877.94	854.97	823.04	780.76	732.23	676.20	616.93
135	933.97	929.52	915.42	890.50	860.91	827.60	782.44	735.36	680.94	626.11
140	905.30	900.23	886.98	864.47	834.77	801.09	761.35	717.44	670.88	623.08
145	848.64	844.40	832.89	813.98	787.29	757.49	725.04	688.39	649.70	610.18
150	778.56	775.19	766.48	749.54	729.73	707.26	681.51	653.24	623.72	591.68
155	706.30	703.66	698.33	686.84	672.54	655.81	636.79	616.05	594.08	571.81
160	639.58	638.54	633.89	627.85	618.26	607.27	594.77	580.15	564.51	550.60
165	582.24	581.50	578.72	575.45	570.94	564.38	557.05	549.02	540.35	530.51
170	538.32	537.82	536.45	534.89	532.94	530.60	527.89	524.05	519.94	515.57
175	509.99	509.77	509.56	508.95	508.44	507.85	507.18	506.45	505.65	504.79
180	498.00	498.00	498.00	498.00	498.00	498.00	498.00	498.00	498.00	498.00

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>	<u>95</u>
90	3.31	3.31	3.31	3.31	3.31	3.31	3.31	3.31	3.31	3.31
95	46.00	46.25	46.77	44.33	39.33	35.53	34.38	33.54	32.02	32.87
100	138.16	130.92	118.24	103.21	89.92	82.00	77.59	76.15	74.86	75.72
105	235.43	212.28	188.09	164.49	143.06	128.75	118.93	112.44	110.90	113.40
110	329.41	293.19	256.76	223.23	194.30	174.55	162.79	156.03	154.32	155.86
115	416.79	361.02	315.93	276.42	243.09	220.00	205.99	196.71	194.39	196.17
120	481.09	423.78	367.87	324.24	289.52	263.56	246.41	237.54	234.37	235.28
125	526.26	466.46	410.88	364.07	328.08	301.48	283.43	273.48	269.16	271.69
130	555.59	497.91	445.29	399.09	361.10	335.60	317.95	306.65	301.60	304.41
135	570.30	517.81	469.10	427.94	392.92	364.88	348.06	338.06	333.87	336.20
140	574.66	529.46	487.10	449.46	419.23	393.77	377.08	366.66	361.45	363.84
145	571.09	533.65	498.54	466.85	440.61	419.84	404.22	395.11	388.86	391.80
150	561.54	532.27	503.60	479.70	457.00	441.52	426.98	420.14	414.68	417.41
155	549.03	527.27	507.08	487.09	472.42	459.19	449.08	443.51	438.99	441.10
160	536.14	520.84	505.81	494.75	483.84	473.16	468.17	463.78	460.11	461.95
165	521.33	513.66	505.93	498.21	490.53	486.74	483.34	480.05	477.13	478.56
170	510.98	506.20	501.38	499.14	497.03	495.02	493.12	491.30	489.62	490.56
175	503.88	502.92	501.93	500.91	499.87	498.82	497.73	496.69	495.65	496.06
180	498.00	498.00	498.00	498.00	498.00	498.00	498.00	498.00	498.00	498.00

Vert. Angles **Horizontal Angles**

	<u>100</u>	<u>105</u>	<u>110</u>	<u>115</u>	<u>120</u>	<u>125</u>	<u>130</u>	<u>135</u>	<u>140</u>	<u>145</u>
90	3.31	3.31	3.31	3.31	3.31	3.31	3.31	3.31	3.31	3.31
95	30.01	23.24	24.45	28.49	30.51	30.10	28.84	28.60	26.19	23.17
100	77.51	79.47	82.12	85.46	93.88	89.64	85.59	86.13	88.23	83.73
105	117.00	124.65	135.42	152.68	171.37	183.33	182.63	176.38	173.64	163.81
110	161.54	171.29	186.85	208.91	238.91	271.34	299.98	316.35	326.44	331.34
115	202.85	214.56	233.49	260.82	296.89	335.81	374.62	420.28	454.07	479.42
120	242.75	256.28	276.87	305.34	341.75	390.77	445.13	495.28	541.74	585.04
125	279.63	293.47	313.33	338.26	380.53	431.33	487.10	547.75	605.44	656.69

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CANDELA TABULATION - (Cont.)

130	312.97	326.66	346.69	373.93	414.50	460.59	512.82	570.00	628.61	687.56
135	342.01	353.39	376.68	405.56	439.59	480.71	527.59	578.70	631.39	684.52
140	370.85	383.47	403.67	427.91	458.55	494.30	533.85	577.89	621.63	665.78
145	397.58	409.61	425.80	446.39	471.97	500.85	533.71	568.73	604.55	640.05
150	421.50	432.33	444.06	461.88	480.98	504.74	529.14	555.14	583.79	609.92
155	444.30	451.46	461.31	472.39	488.20	504.31	522.21	541.43	560.17	578.80
160	464.50	467.32	475.17	483.08	491.30	503.30	515.68	527.25	538.22	551.07
165	480.39	482.41	484.57	490.38	495.94	501.48	506.95	513.89	521.57	528.30
170	491.62	492.72	493.88	495.08	496.31	499.39	502.47	505.50	508.46	511.32
175	496.48	496.95	497.41	497.88	498.34	498.81	499.27	499.73	500.17	500.60
180	498.00	498.00	498.00	498.00	498.00	498.00	498.00	498.00	498.00	498.00

Vert. Horizontal Angles

	<u>150</u>	<u>155</u>	<u>160</u>	<u>165</u>	<u>170</u>	<u>175</u>	<u>180</u>
90	3.31	3.31	3.31	3.31	3.31	3.31	3.31
95	21.93	22.03	22.25	21.61	21.04	22.46	20.96
100	81.69	81.37	78.98	76.35	73.98	71.55	71.59
105	164.88	164.61	162.48	162.76	160.48	143.04	175.03
110	319.36	319.11	314.85	282.35	295.86	313.75	329.09
115	498.55	519.16	517.80	529.21	548.71	601.45	608.40
120	620.48	652.60	686.67	721.30	762.34	781.99	789.79
125	714.53	752.35	802.14	832.31	856.43	875.20	882.84
130	740.37	789.43	828.40	858.01	885.10	905.37	912.51
135	732.26	777.80	814.37	846.09	872.47	891.19	896.08
140	707.76	746.63	779.06	807.62	830.56	844.57	849.14
145	673.81	704.42	731.44	754.22	771.98	783.46	787.61
150	635.33	658.93	679.36	696.37	709.95	717.33	720.38
155	597.14	614.05	628.59	640.32	649.62	654.28	656.68
160	563.24	573.59	582.61	590.44	595.33	598.38	600.01
165	534.62	540.48	545.81	549.36	551.91	553.71	554.75
170	514.09	516.01	517.69	519.11	520.26	521.13	521.72
175	501.01	501.40	501.77	502.11	502.42	502.70	502.94
180	498.00	498.00	498.00	498.00	498.00	498.00	498.00

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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	229.45	N.A.	9.50
90-120	617.43	N.A.	25.60
90-130	1114.65	N.A.	46.20
90-150	1959.03	N.A.	81.10
90-180	2415.02	N.A.	100.00
110-180	2185.57	N.A.	90.50
0-180	2415.02	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	41.63
100-110	187.82
110-120	387.98
120-130	497.22
130-140	470.52
140-150	373.87
150-160	258.94
160-170	148.89
170-180	48.16

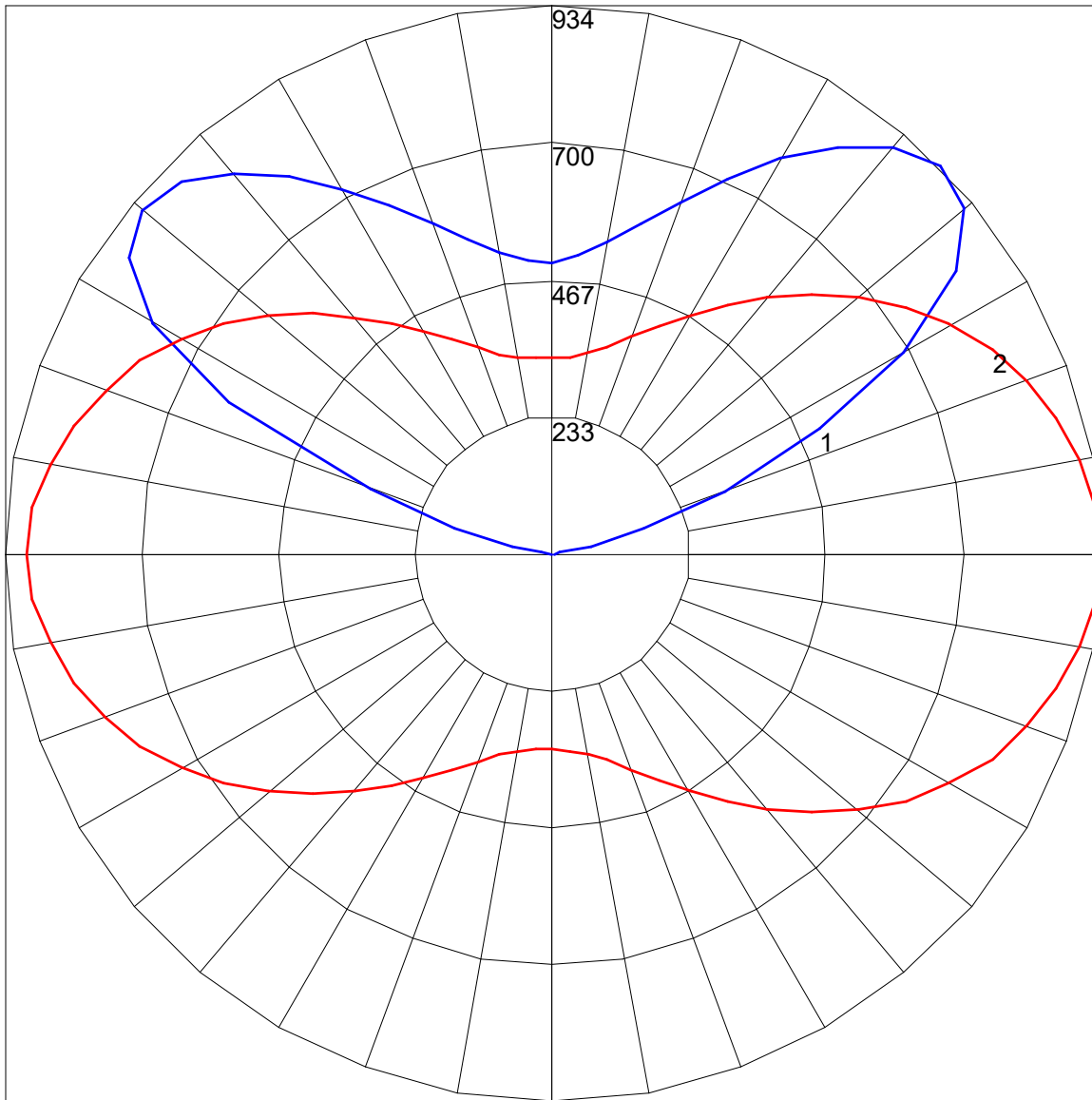
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	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 = 933.97 Located At Horizontal Angle = 0, Vertical Angle = 135
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Horizontal Cone Through Vertical Angle (135) (Through Max. Cd.)