

## IES Report

# BoxRail® | 207 | Wide Batwing, up | 80 CRI | SO

207-BX-XX-4-48-XX-XX-XX-X-X-Z-SO-35-G1-X-BL-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	106	109	111	111
Total Lumens, 4' rail length (1219mm)	2661	2745	2801	2801
Lumens per foot (305mm)	665	686	700	700
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	82	82	82	82

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\_35\_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-35-G1-BL

[LUMINAIRE] BoxRail LED, 48", 3500K, 80 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	2801
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	111
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>
<b>90</b>	3.840	3.840	3.840	3.840	3.840	3.840	3.840	3.840	3.840	3.840
<b>95</b>	15.950	21.564	20.532	21.762	23.966	27.654	29.742	37.862	49.114	49.416
<b>100</b>	77.395	82.859	87.313	95.607	104.968	115.838	128.110	141.740	152.668	162.168
<b>105</b>	188.639	198.476	209.415	220.702	234.471	254.956	273.157	285.696	292.390	289.269
<b>110</b>	363.857	371.188	388.264	401.116	418.586	432.692	432.413	443.804	435.708	415.976
<b>115</b>	580.696	584.350	601.321	611.633	618.535	625.066	620.380	603.003	577.320	535.932
<b>120</b>	802.581	800.249	806.281	806.467	806.954	789.728	768.883	737.598	682.173	622.584
<b>125</b>	973.716	968.391	960.735	946.850	933.893	900.496	867.367	810.330	751.436	684.388
<b>130</b>	1064.346	1058.732	1042.573	1018.410	991.765	954.726	905.682	849.387	784.392	715.639
<b>135</b>	1083.405	1078.243	1061.887	1032.980	998.656	960.016	907.630	853.018	789.890	726.288
<b>140</b>	1050.148	1044.267	1028.897	1002.785	968.333	929.264	883.166	832.230	778.221	722.773
<b>145</b>	984.422	979.504	966.152	944.217	913.256	878.688	841.046	798.532	753.652	707.809
<b>150</b>	903.130	899.220	889.117	869.466	846.487	820.422	790.552	757.758	723.515	686.349
<b>155</b>	819.308	816.246	810.063	796.734	780.146	760.740	738.676	714.618	689.133	663.300
<b>160</b>	741.913	740.706	735.312	728.306	717.182	704.433	689.933	672.974	654.832	638.696
<b>165</b>	675.398	674.540	671.315	667.522	662.290	654.681	646.178	636.863	626.806	615.392
<b>170</b>	624.451	623.871	622.282	620.472	618.210	615.496	612.352	607.898	603.130	598.061
<b>175</b>	591.588	591.333	591.090	590.382	589.790	589.106	588.329	587.482	586.554	585.556
<b>180</b>	577.680	577.680	577.680	577.680	577.680	577.680	577.680	577.680	577.680	577.680

**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>
<b>90</b>	3.840	3.840	3.840	3.840	3.840	3.840	3.840	3.840	3.840	3.840
<b>95</b>	53.360	53.650	54.253	51.423	45.623	41.215	39.881	38.906	37.143	38.129
<b>100</b>	160.266	151.867	137.158	119.724	104.307	95.120	90.004	88.334	86.838	87.835
<b>105</b>	273.099	246.245	218.184	190.808	165.950	149.350	137.959	130.430	128.644	131.544
<b>110</b>	382.116	340.100	297.842	258.947	225.388	202.478	188.836	180.995	179.011	180.798
<b>115</b>	483.476	418.783	366.479	320.647	281.984	255.200	238.948	228.184	225.492	227.557
<b>120</b>	558.064	491.585	426.729	376.118	335.843	305.730	285.836	275.546	271.869	272.925
<b>125</b>	610.462	541.094	476.621	422.321	380.573	349.717	328.779	317.237	312.226	315.160
<b>130</b>	644.484	577.576	516.536	462.944	418.876	389.296	368.822	355.714	349.856	353.116
<b>135</b>	661.548	600.660	544.156	496.410	455.787	423.261	403.750	392.150	387.289	389.992
<b>140</b>	666.606	614.174	565.036	521.374	486.307	456.773	437.413	425.326	419.282	422.054
<b>145</b>	662.464	619.034	578.306	541.546	511.108	487.014	468.895	458.328	451.078	454.488
<b>150</b>	651.386	617.433	584.176	556.452	530.120	512.163	495.297	487.362	481.029	484.196
<b>155</b>	636.875	611.633	588.213	565.024	548.007	532.660	520.933	514.472	509.228	511.676
<b>160</b>	621.922	604.174	586.740	573.910	561.254	548.866	543.077	537.985	533.728	535.862
<b>165</b>	604.743	595.846	586.879	577.924	569.015	564.618	560.674	556.858	553.471	555.130
<b>170</b>	592.737	587.192	581.601	579.002	576.555	574.223	572.019	569.908	567.959	569.050
<b>175</b>	584.501	583.387	582.239	581.056	579.849	578.631	577.367	576.160	574.954	575.430
<b>180</b>	577.680	577.680	577.680	577.680	577.680	577.680	577.680	577.680	577.680	577.680

**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>
<b>90</b>	3.840	3.840	3.840	3.840	3.840	3.840	3.840	3.840	3.840	3.840
<b>95</b>	34.812	26.958	28.362	33.048	35.392	34.916	33.454	33.176	30.380	26.877
<b>100</b>	89.912	92.185	95.259	99.134	108.901	103.982	99.284	99.911	102.347	97.127
<b>105</b>	135.720	144.594	157.087	177.109	198.789	212.663	211.851	204.601	201.422	190.020
<b>110</b>	187.386	198.696	216.746	242.336	277.136	314.754	347.977	366.966	378.670	384.354
<b>115</b>	235.306	248.890	270.848	302.551	344.392	389.540	434.559	487.525	526.721	556.127
<b>120</b>	281.590	297.285	321.169	354.194	396.430	453.293	516.351	574.525	628.418	678.646
<b>125</b>	324.371	340.425	363.463	392.382	441.415	500.343	565.036	635.390	702.310	761.760

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**CANDELA TABULATION - (Cont.)**

<b>130</b>	363.045	378.926	402.160	433.759	480.820	534.284	594.871	661.200	729.188	797.570
<b>135</b>	396.732	409.932	436.949	470.450	509.924	557.624	612.004	671.292	732.412	794.043
<b>140</b>	430.186	444.825	468.257	496.376	531.918	573.388	619.266	670.352	721.091	772.305
<b>145</b>	461.193	475.148	493.928	517.812	547.485	580.986	619.104	659.727	701.278	742.458
<b>150</b>	488.940	501.503	515.110	535.781	557.937	585.498	613.802	643.962	677.196	707.507
<b>155</b>	515.388	523.694	535.120	547.972	566.312	585.000	605.764	628.059	649.797	671.408
<b>160</b>	538.820	542.091	551.197	560.373	569.908	583.828	598.189	611.610	624.335	639.241
<b>165</b>	557.252	559.596	562.101	568.841	575.290	581.717	588.062	596.112	605.021	612.828
<b>170</b>	570.279	571.555	572.901	574.293	575.720	579.292	582.865	586.380	589.814	593.131
<b>175</b>	575.917	576.462	576.996	577.541	578.074	578.620	579.153	579.687	580.197	580.696
<b>180</b>	577.680	577.680	577.680	577.680	577.680	577.680	577.680	577.680	577.680	577.680

**Vert. Horizontal Angles**

	<u><b>150</b></u>	<u><b>155</b></u>	<u><b>160</b></u>	<u><b>165</b></u>	<u><b>170</b></u>	<u><b>175</b></u>	<u><b>180</b></u>
<b>90</b>	3.840	3.840	3.840	3.840	3.840	3.840	3.840
<b>95</b>	25.439	25.555	25.810	25.068	24.406	26.054	24.314
<b>100</b>	94.760	94.389	91.617	88.566	85.817	82.998	83.044
<b>105</b>	191.261	190.948	188.477	188.802	186.157	165.926	203.035
<b>110</b>	370.458	370.168	365.226	327.526	343.198	363.950	381.744
<b>115</b>	578.318	602.226	600.648	613.884	636.504	697.682	705.744
<b>120</b>	719.757	757.016	796.537	836.708	884.314	907.108	916.156
<b>125</b>	828.855	872.726	930.482	965.480	993.459	1015.232	1024.094
<b>130</b>	858.829	915.739	960.944	995.292	1026.716	1050.229	1058.512
<b>135</b>	849.422	902.248	944.669	981.464	1012.065	1033.780	1039.453
<b>140</b>	821.002	866.091	903.710	936.839	963.450	979.701	985.002
<b>145</b>	781.620	817.127	848.470	874.895	895.497	908.814	913.628
<b>150</b>	736.983	764.359	788.058	807.789	823.542	832.103	835.641
<b>155</b>	692.682	712.298	729.164	742.771	753.559	758.965	761.749
<b>160</b>	653.358	665.364	675.828	684.910	690.583	694.121	696.012
<b>165</b>	620.159	626.957	633.140	637.258	640.216	642.304	643.510
<b>170</b>	596.344	598.572	600.520	602.168	603.502	604.511	605.195
<b>175</b>	581.172	581.624	582.053	582.448	582.807	583.132	583.410
<b>180</b>	577.680	577.680	577.680	577.680	577.680	577.680	577.680

**IES INDOOR REPORT**  
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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	266.16	N.A.	9.50
90-120	716.22	N.A.	25.60
90-130	1292.99	N.A.	46.20
90-150	2272.48	N.A.	81.10
90-180	2801.43	N.A.	100.00
110-180	2535.26	N.A.	90.50
0-180	2801.43	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	48.29
100-110	217.87
110-120	450.06
120-130	576.77
130-140	545.80
140-150	433.69
150-160	300.37
160-170	172.71
170-180	55.87

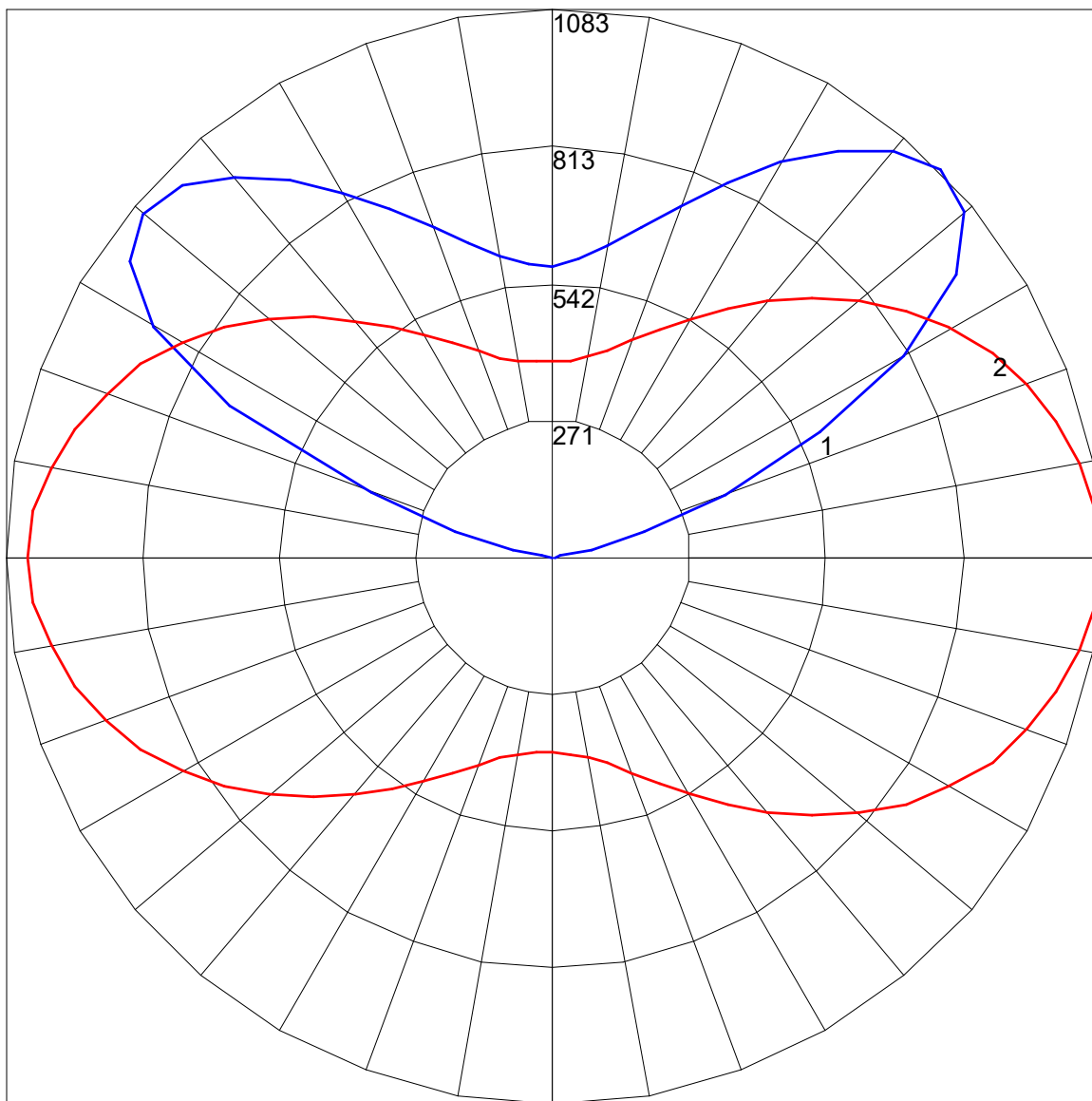
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 1083.405 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.)