

## IES Report

BoxRail® | 207 | Wide Batwing, up | 120° Flywing, down | 80 CRI | LO

207-BX-XX-4-48-XX-XX-XX-XX-X-X-Z-LO-35-G1G2-X-BL-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	102	105	107	107
Total Lumens, 4' rail length (1219mm)	2905	2997	3058	3058
Lumens per foot (305mm)	726	749	765	765
Lumens per foot UP (305mm)	342	352	360	360
Lumens per foot DOWN (305mm)	385	397	405	405
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	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\_LO\_35\_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-35-G1G2-BL

[LUMINAIRE] BoxRail LED, 48", 3500K, 80 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	3058
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	106
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	11211	11605	13877
55	8170	9206	13222
65	4874	5822	12005
75	1494	2418	9161
85	119	227	3236

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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>0</b>	510.586	510.586	510.586	510.586	510.586	510.586	510.586	510.586	510.586	510.586
<b>5</b>	517.586	517.192	516.792	516.194	515.643	515.057	514.448	513.810	513.155	512.488
<b>10</b>	537.179	536.343	535.033	533.530	531.750	529.714	527.423	523.815	520.127	516.339
<b>15</b>	563.870	562.606	560.408	557.763	554.173	548.506	542.422	535.972	529.209	521.246
<b>20</b>	588.375	586.740	583.985	580.081	573.446	566.173	557.908	547.607	537.034	526.072
<b>25</b>	603.055	601.013	598.386	592.603	585.800	576.955	566.538	555.837	540.873	525.312
<b>30</b>	601.791	600.103	597.388	591.745	584.779	576.172	566.184	552.241	536.227	518.578
<b>35</b>	584.391	582.517	579.461	575.372	568.777	561.440	552.746	537.202	521.901	503.249
<b>40</b>	549.770	548.622	545.896	542.103	537.724	532.689	522.476	510.377	496.538	477.462
<b>45</b>	501.253	500.407	498.388	495.680	492.310	488.540	480.182	472.190	456.994	442.314
<b>50</b>	437.221	436.021	434.809	434.107	434.055	431.793	426.799	419.978	408.390	393.286
<b>55</b>	363.469	363.063	363.399	363.312	360.690	357.234	355.668	351.526	346.608	339.213
<b>60</b>	287.674	287.007	285.656	280.755	278.510	277.043	277.356	276.306	274.427	269.787
<b>65</b>	209.154	208.087	198.772	197.078	199.021	201.214	203.331	202.826	201.770	200.634
<b>70</b>	125.483	120.640	118.042	121.000	125.866	129.085	131.010	133.359	135.703	136.317
<b>75</b>	59.798	55.094	60.094	62.019	63.574	65.691	67.071	68.069	72.291	75.006
<b>80</b>	14.245	17.603	17.023	18.142	19.018	20.619	22.202	24.789	26.848	31.065
<b>85</b>	4.280	5.081	4.791	4.686	4.611	4.733	4.431	4.652	5.139	6.038
<b>90</b>	4.037	4.106	4.106	4.083	4.083	4.037	3.985	3.840	3.625	3.381
<b>95</b>	6.711	10.225	9.315	10.237	11.739	13.804	16.252	22.719	25.630	33.855
<b>100</b>	33.936	37.132	39.846	44.492	51.626	59.148	68.881	80.139	90.405	94.006
<b>105</b>	89.163	90.799	100.433	108.785	118.912	137.837	155.614	168.055	177.231	170.920
<b>110</b>	204.438	208.150	218.851	226.525	256.783	274.404	293.347	304.680	292.065	247.213
<b>115</b>	423.899	422.716	418.574	435.249	433.962	452.185	427.245	396.366	347.838	284.183
<b>120</b>	619.394	612.660	594.500	573.527	558.998	515.974	474.800	419.114	355.325	295.046
<b>125</b>	644.774	637.611	620.588	595.208	564.357	514.889	462.915	408.888	353.817	302.627
<b>130</b>	589.199	584.634	571.561	549.533	517.673	480.379	439.878	396.134	353.411	314.232
<b>135</b>	534.412	531.524	520.585	503.573	480.327	451.588	421.300	387.950	354.757	322.457
<b>140</b>	492.693	490.025	481.562	468.251	450.817	429.490	404.538	378.798	351.903	325.525
<b>145</b>	454.772	452.336	445.579	435.046	420.541	403.570	384.540	362.686	340.854	318.536
<b>150</b>	411.551	409.480	404.509	395.850	384.575	371.009	355.627	338.882	321.500	303.131
<b>155</b>	363.028	361.595	358.423	352.483	344.752	335.124	323.849	311.367	299.257	286.833
<b>160</b>	319.812	319.023	316.918	313.763	308.920	303.183	296.467	288.486	279.763	272.391
<b>165</b>	288.011	287.413	286.184	284.536	282.298	279.079	275.425	271.365	266.922	261.789
<b>170</b>	266.475	266.133	265.541	264.776	263.813	262.659	261.313	259.341	257.259	255.067
<b>175</b>	253.153	252.984	252.770	252.561	252.300	252.010	251.697	251.360	251.007	250.635
<b>180</b>	248.240	248.240	248.240	248.240	248.240	248.240	248.240	248.240	248.240	248.240

**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>
<b>0</b>	510.586	510.586	510.586	510.586	510.586	510.586	510.586	510.586	510.586
<b>5</b>	511.815	511.137	510.458	509.791	509.136	508.492	507.842	507.262	506.700
<b>10</b>	512.494	508.608	504.786	502.848	501.039	499.357	497.808	496.370	495.175
<b>15</b>	513.544	506.781	500.163	493.737	487.420	484.346	481.678	479.271	477.427
<b>20</b>	514.164	501.607	489.532	480.211	471.459	463.188	459.424	456.234	454.041
<b>25</b>	509.797	493.371	477.178	461.784	450.121	439.820	432.222	428.284	425.795
<b>30</b>	499.305	479.463	459.888	441.531	424.670	412.885	402.445	398.164	395.653
<b>35</b>	481.638	460.224	437.279	416.220	397.567	382.980	371.971	366.137	362.883
<b>40</b>	456.564	432.465	408.946	386.025	366.821	350.912	340.158	333.465	330.119
<b>45</b>	419.630	397.903	374.622	352.298	333.065	317.730	307.760	301.519	298.561
<b>50</b>	375.921	355.163	333.958	313.879	296.107	283.313	274.392	268.604	265.698
<b>55</b>	322.642	305.643	288.631	270.854	256.859	245.995	238.218	233.960	232.928
<b>60</b>	262.363	251.621	237.005	223.126	212.477	204.612	199.416	196.191	194.961

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**CANDELA TABULATION - (Cont.)**

<b>65</b>	198.006	190.948	182.398	175.230	169.267	164.349	161.391	159.071	158.253
<b>70</b>	135.824	134.247	131.312	127.768	124.793	121.319	119.318	118.349	117.607
<b>75</b>	77.784	80.974	81.217	79.414	78.544	78.132	75.997	75.232	76.479
<b>80</b>	31.500	34.237	36.354	39.753	43.488	43.506	42.700	41.963	42.056
<b>85</b>	6.821	7.018	7.418	8.543	9.135	9.738	10.028	10.283	10.550
<b>90</b>	3.115	2.819	2.529	2.239	1.943	1.653	1.409	1.340	1.409
<b>95</b>	34.272	31.970	28.530	18.978	14.761	13.966	15.608	17.249	18.282
<b>100</b>	89.865	75.748	59.177	44.045	40.374	43.256	43.633	43.900	43.610
<b>105</b>	151.136	120.686	90.596	72.181	65.534	64.815	65.992	67.918	69.768
<b>110</b>	198.812	152.992	118.268	99.574	92.556	92.150	94.981	97.863	99.377
<b>115</b>	220.458	175.166	145.267	127.884	120.855	120.246	122.908	126.312	128.203
<b>120</b>	240.265	195.199	172.666	157.197	149.611	148.045	149.953	152.668	154.413
<b>125</b>	260.165	225.666	201.434	185.107	175.862	172.225	171.686	172.544	173.275
<b>130</b>	278.238	249.725	227.244	210.308	197.995	191.464	187.183	184.376	182.996
<b>135</b>	293.416	267.972	246.471	228.967	215.244	204.351	196.052	190.257	186.934
<b>140</b>	299.906	277.397	256.679	238.403	223.201	210.088	200.303	194.027	190.484
<b>145</b>	296.751	276.666	257.688	240.770	226.136	214.182	204.496	199.387	196.075
<b>150</b>	286.155	269.642	253.744	240.520	227.575	219.101	210.813	207.495	204.728
<b>155</b>	273.737	261.835	251.047	240.010	232.255	225.237	219.901	217.140	214.890
<b>160</b>	264.753	256.592	248.495	242.829	237.203	231.507	229.344	227.343	225.736
<b>165</b>	256.998	253.066	249.093	245.108	240.978	239.360	237.852	236.443	235.265
<b>170</b>	252.776	250.409	248.014	246.958	245.937	244.963	244.035	243.148	242.359
<b>175</b>	250.247	249.847	249.435	249.023	248.605	248.194	247.764	247.370	246.981
<b>180</b>	248.240	248.240	248.240	248.240	248.240	248.240	248.240	248.240	248.240

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	196.63	N.A.	6.40
0-30	435.97	N.A.	14.30
0-40	740.07	N.A.	24.20
0-60	1341.57	N.A.	43.90
0-80	1607.57	N.A.	52.60
0-90	1620.2	N.A.	53.00
10-90	1571.17	N.A.	51.40
20-40	543.44	N.A.	17.80
20-50	865.01	N.A.	28.30
40-70	788.56	N.A.	25.80
60-80	266.01	N.A.	8.70
70-80	78.94	N.A.	2.60
80-90	12.63	N.A.	0.40
90-110	151.14	N.A.	4.90
90-120	421.69	N.A.	13.80
90-130	737.40	N.A.	24.10
90-150	1205.37	N.A.	39.40
90-180	1438.12	N.A.	47.00
110-180	1286.98	N.A.	42.10
0-180	3058.32	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	49.03
10-20	147.60
20-30	239.35
30-40	304.10
40-50	321.57
50-60	279.93
60-70	187.07
70-80	78.94
80-90	12.63
90-100	26.96
100-110	124.18
110-120	270.56
120-130	315.71
130-140	265.79
140-150	202.18
150-160	133.98
160-170	74.73
170-180	24.04

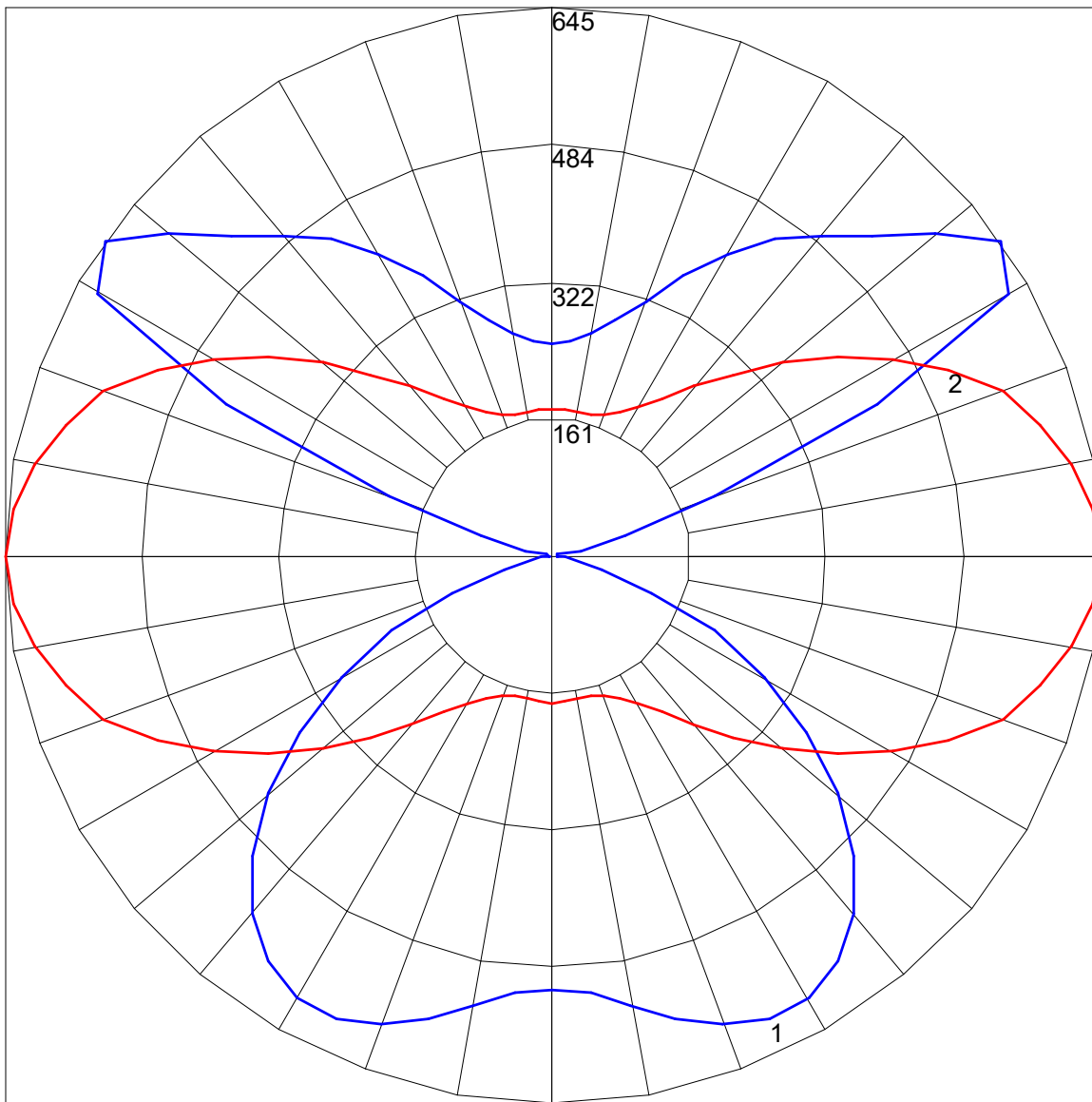
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	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 = 644.774 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.)