

## IES Report

**BoxRail® | 207 | Wide Batwing, up | Diffuse, down | 80 CRI | HO**

**207-BX-XX-4-48-XX-XX-XX-XX-X-X-Z-HO-35-G1D1-X-AL / WH-X**

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	95	98	100	100
Total Lumens, 4' rail length (1219mm)	9719	10025	10230	10230
Lumens per foot (305mm)	2430	2506	2558	2558
Lumens per foot UP (305mm)	1411	1456	1485	1485
Lumens per foot DOWN (305mm)	1019	1051	1072	1072
Input Power (W), 4' rail length (1219mm)	103.1	103.1	103.1	103.1
Watts per foot (305mm)	25.8	25.8	25.8	25.8
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\_HO\_35\_G1D1.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L022010902 (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-HO-35-G1D1

[LUMINAIRE] BoxRail LED, 48", 3500K, 80 CRI, zipper board, wide batwing lens up,

[MORE] diffuse lens down, high output, clear anodized finish

[TEST PROCEDURE] IESNA:LM-79-08

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	10211
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	99
Total Luminaire Watts	103.13
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	22656	26660	47340
55	17388	21264	43444
65	11340	14948	41239
75	5334	7422	35278
85	908	1740	24318

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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>	1565.674	1565.674	1565.674	1565.674	1565.674	1565.674	1565.674	1565.674	1565.674	1565.674
<b>5</b>	1557.930	1557.270	1556.632	1556.170	1555.730	1555.356	1555.070	1554.850	1554.718	1554.674
<b>10</b>	1535.798	1534.478	1533.664	1533.136	1532.982	1533.180	1533.730	1532.476	1531.728	1531.464
<b>15</b>	1499.278	1497.584	1497.122	1497.320	1497.628	1495.868	1495.098	1495.318	1496.528	1496.572
<b>20</b>	1448.194	1445.994	1446.236	1446.610	1444.806	1444.696	1445.422	1444.718	1445.774	1445.642
<b>25</b>	1383.294	1381.600	1382.502	1380.918	1380.918	1380.478	1380.346	1382.810	1380.170	1379.136
<b>30</b>	1306.932	1305.194	1305.480	1304.358	1304.204	1304.138	1304.644	1303.654	1303.390	1302.708
<b>35</b>	1218.228	1216.754	1216.160	1216.842	1216.160	1216.644	1217.590	1215.280	1215.544	1215.346
<b>40</b>	1120.680	1119.536	1118.172	1117.754	1118.304	1118.898	1117.952	1118.590	1119.998	1120.196
<b>45</b>	1012.990	1012.836	1012.110	1011.824	1011.406	1012.176	1011.890	1013.980	1013.386	1016.136
<b>50</b>	897.732	896.500	896.104	896.346	897.072	897.996	898.524	900.702	900.416	901.670
<b>55</b>	773.608	772.508	773.806	774.356	770.792	765.820	768.790	772.508	777.854	783.508
<b>60</b>	638.814	637.384	633.974	624.338	621.412	622.996	628.298	636.702	643.852	653.466
<b>65</b>	486.662	486.090	470.404	465.432	469.216	472.560	482.350	489.896	501.864	515.086
<b>70</b>	337.304	325.138	321.508	325.644	333.630	336.424	339.438	344.520	355.432	368.566
<b>75</b>	213.554	200.970	212.300	213.796	212.388	211.706	211.068	212.212	221.474	230.252
<b>80</b>	114.334	116.292	118.844	118.844	118.558	118.514	118.668	119.504	125.356	123.574
<b>85</b>	32.648	43.032	40.634	40.986	41.492	42.020	41.118	43.340	44.990	46.354
<b>90</b>	15.158	15.312	15.114	14.938	14.476	14.102	13.552	12.826	12.078	11.154
<b>95</b>	49.984	61.490	58.014	59.334	61.336	64.702	66.374	79.706	87.318	93.192
<b>100</b>	193.072	202.642	207.416	217.294	230.010	243.562	259.182	272.382	290.026	291.566
<b>105</b>	463.430	431.662	461.956	474.056	487.872	510.444	527.560	541.992	555.654	552.156
<b>110</b>	863.984	835.560	838.420	856.680	886.204	887.788	918.522	895.884	873.224	818.994
<b>115</b>	1381.996	1376.320	1327.568	1302.466	1290.674	1283.502	1248.302	1198.912	1136.234	1058.640
<b>120</b>	1758.746	1747.746	1723.524	1677.962	1636.118	1577.576	1515.426	1444.894	1336.324	1222.650
<b>125</b>	2003.826	1991.022	1961.300	1923.746	1876.798	1788.226	1708.300	1592.492	1476.420	1345.718
<b>130</b>	2108.590	2097.282	2064.876	2015.838	1956.108	1876.600	1775.598	1666.016	1540.682	1411.828
<b>135</b>	2107.468	2097.942	2067.648	2019.974	1954.040	1877.634	1781.054	1680.932	1565.190	1449.602
<b>140</b>	2039.246	2029.522	2002.044	1959.320	1902.538	1831.962	1748.582	1657.810	1560.746	1460.998
<b>145</b>	1931.534	1922.866	1900.910	1866.964	1818.850	1760.286	1691.998	1614.448	1533.994	1451.912
<b>150</b>	1806.134	1798.302	1782.242	1754.566	1717.650	1671.010	1616.186	1556.720	1496.000	1429.978
<b>155</b>	1675.938	1670.240	1659.614	1638.450	1611.742	1577.576	1537.382	1494.218	1449.382	1404.018
<b>160</b>	1553.486	1550.472	1541.760	1529.814	1510.806	1489.136	1464.232	1434.290	1402.874	1374.736
<b>165</b>	1448.568	1446.346	1440.846	1434.356	1425.556	1412.422	1397.836	1381.886	1364.704	1344.816
<b>170</b>	1370.182	1368.972	1366.310	1363.340	1359.666	1355.354	1350.404	1342.572	1334.454	1325.984
<b>175</b>	1323.168	1322.596	1322.134	1320.748	1319.714	1318.592	1317.382	1316.084	1314.720	1313.290
<b>180</b>	1306.800	1306.800	1306.800	1306.800	1306.800	1306.800	1306.800	1306.800	1306.800	1306.800

**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>	1565.674	1565.674	1565.674	1565.674	1565.674	1565.674	1565.674	1565.674	1565.674
<b>5</b>	1554.696	1554.806	1555.004	1555.268	1555.620	1556.060	1556.478	1557.094	1557.732
<b>10</b>	1531.618	1532.234	1533.224	1532.542	1532.212	1532.256	1532.652	1533.312	1534.500
<b>15</b>	1495.824	1494.482	1494.086	1494.658	1496.330	1495.582	1495.670	1496.396	1498.354
<b>20</b>	1444.542	1443.420	1443.618	1441.836	1441.594	1443.002	1441.836	1441.770	1443.948
<b>25</b>	1380.478	1379.136	1377.112	1377.398	1376.210	1376.804	1377.530	1376.188	1378.124
<b>30</b>	1302.334	1302.444	1302.378	1300.860	1301.960	1300.904	1302.510	1300.904	1303.610
<b>35</b>	1215.192	1216.754	1215.918	1215.698	1215.258	1215.214	1215.676	1215.038	1216.380
<b>40</b>	1120.350	1120.768	1120.526	1119.602	1119.250	1121.120	1120.636	1119.976	1119.932
<b>45</b>	1014.816	1016.686	1017.698	1016.576	1017.148	1019.194	1019.128	1018.952	1018.512
<b>50</b>	902.990	906.202	907.258	907.082	906.400	907.038	907.456	907.236	906.400
<b>55</b>	781.220	781.352	790.174	791.538	785.400	779.042	773.124	768.108	765.314
<b>60</b>	658.702	664.972	667.766	668.888	667.458	667.634	669.240	670.054	671.264

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**CANDELA TABULATION - (Cont.)**

<b>65</b>	525.602	534.908	538.846	540.760	542.938	543.884	543.466	542.520	543.642
<b>70</b>	383.724	398.926	408.430	412.698	415.250	416.724	417.868	417.120	418.066
<b>75</b>	243.232	259.138	273.218	281.204	288.156	292.644	290.774	290.312	294.514
<b>80</b>	126.830	135.894	148.918	155.144	175.296	178.706	178.750	177.342	175.934
<b>85</b>	46.992	48.070	52.976	54.648	57.024	61.974	70.070	77.286	79.288
<b>90</b>	10.318	9.218	8.492	7.744	6.908	6.182	5.808	5.346	5.346
<b>95</b>	94.578	117.018	114.290	91.718	85.316	85.888	84.194	81.070	82.808
<b>100</b>	291.104	289.894	268.488	239.162	219.186	201.498	185.658	179.608	180.356
<b>105</b>	536.998	495.242	446.864	389.818	347.116	315.414	292.666	281.138	279.378
<b>110</b>	743.710	676.148	602.316	526.526	469.546	431.244	403.568	389.576	388.938
<b>115</b>	956.274	843.106	741.532	654.302	587.928	542.498	511.192	494.494	493.130
<b>120</b>	1100.968	972.004	860.288	770.726	698.786	649.682	619.696	600.358	592.526
<b>125</b>	1207.008	1078.990	965.602	871.772	796.620	745.052	714.054	695.310	686.026
<b>130</b>	1283.612	1163.822	1056.660	964.370	889.724	833.690	795.938	772.002	754.072
<b>135</b>	1333.046	1225.070	1125.674	1043.108	974.534	922.482	888.096	866.712	857.890
<b>140</b>	1360.480	1268.784	1182.764	1106.380	1046.650	997.568	964.788	944.812	935.528
<b>145</b>	1371.282	1295.096	1224.014	1160.192	1107.986	1066.934	1036.156	1020.052	1010.768
<b>150</b>	1367.982	1308.318	1250.524	1202.938	1158.190	1128.160	1100.616	1089.264	1081.586
<b>155</b>	1357.576	1313.136	1272.458	1232.836	1204.302	1179.068	1160.236	1150.446	1143.362
<b>160</b>	1345.014	1313.598	1283.238	1261.524	1240.580	1220.428	1211.606	1204.126	1198.494
<b>165</b>	1326.358	1311.222	1296.064	1281.016	1266.166	1259.412	1253.780	1248.654	1244.606
<b>170</b>	1317.250	1308.340	1299.518	1295.294	1291.422	1287.814	1284.492	1281.368	1278.728
<b>175</b>	1311.816	1310.298	1308.736	1307.174	1305.612	1304.050	1302.466	1300.992	1299.562
<b>180</b>	1306.800	1306.800	1306.800	1306.800	1306.800	1306.800	1306.800	1306.800	1306.800

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	569.82	N.A.	5.60
0-30	1205.48	N.A.	11.80
0-40	1966.12	N.A.	19.30
0-60	3443.47	N.A.	33.70
0-80	4212.46	N.A.	41.30
0-90	4280.7	N.A.	41.90
10-90	4132.89	N.A.	40.50
20-40	1396.3	N.A.	13.70
20-50	2178.96	N.A.	21.30
40-70	1982.63	N.A.	19.40
60-80	768.99	N.A.	7.50
70-80	263.71	N.A.	2.60
80-90	68.24	N.A.	0.70
90-110	594.86	N.A.	5.80
90-120	1543.61	N.A.	15.10
90-130	2726.89	N.A.	26.70
90-150	4770.54	N.A.	46.70
90-180	5930.75	N.A.	58.10
110-180	5335.89	N.A.	52.30
0-180	10211.45	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	147.81
10-20	422.02
20-30	635.65
30-40	760.64
40-50	782.66
50-60	694.69
60-70	505.29
70-80	263.71
80-90	68.24
90-100	111.49
100-110	483.37
110-120	948.74
120-130	1183.29
130-140	1127.03
140-150	916.61
150-160	651.71
160-170	382.81
170-180	125.69

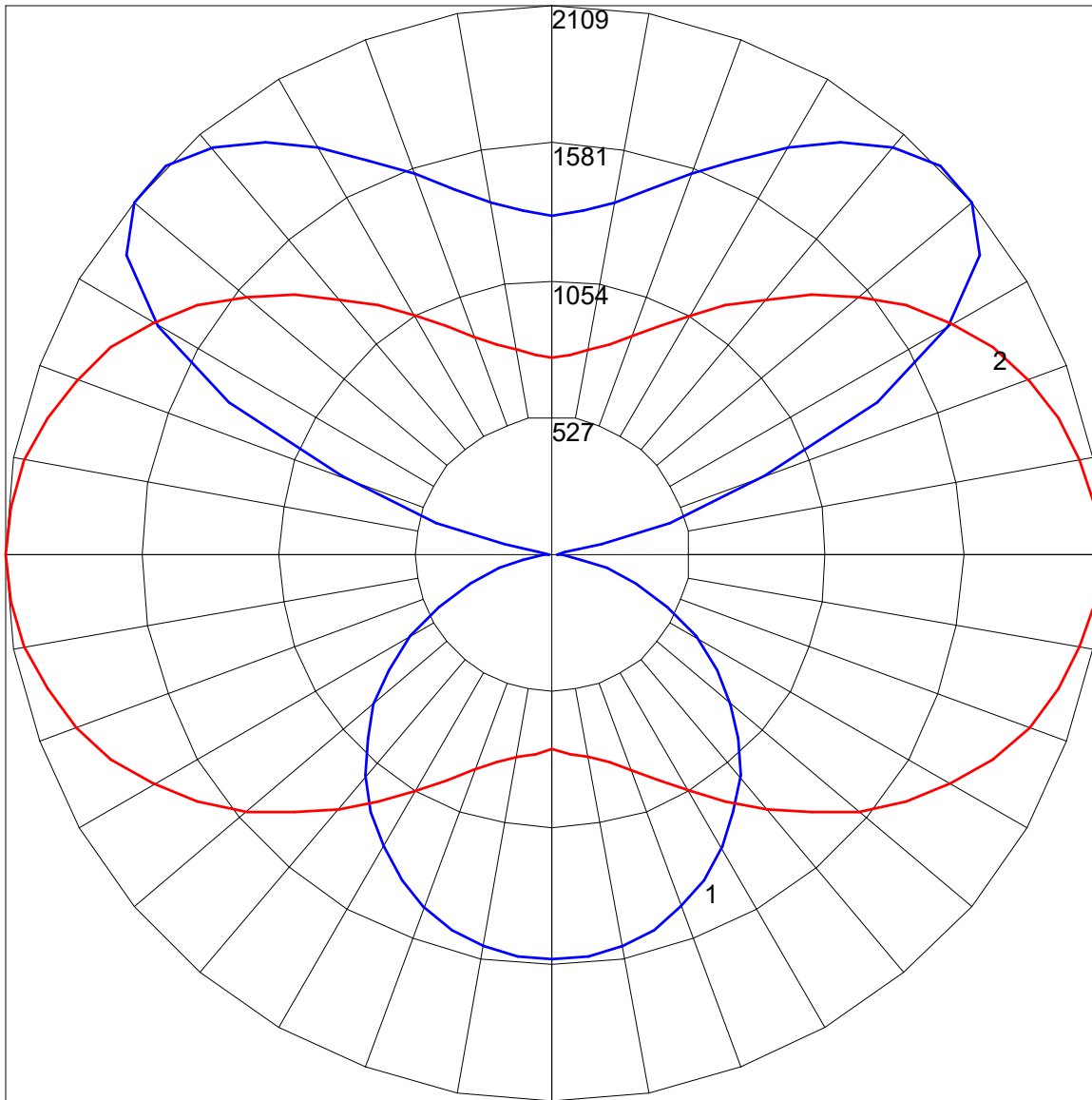
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	105	105	105	105	96	96	96	96	79	79	79	63	63	63	49	49	49	42
1	96	92	88	84	87	84	81	78	69	67	65	56	54	53	43	42	41	35
2	87	80	74	69	79	73	68	64	60	57	54	49	46	44	38	36	35	30
3	80	70	63	57	72	64	58	53	53	49	45	43	40	37	33	31	29	25
4	73	62	54	48	66	57	50	45	47	42	38	38	35	32	30	27	25	21
5	67	55	47	41	61	51	44	38	42	37	33	34	30	27	27	24	22	18
6	61	49	41	36	56	45	38	33	38	33	28	31	27	24	24	21	19	16
7	57	45	37	31	52	41	34	29	34	29	25	28	24	21	22	19	17	14
8	53	40	33	27	48	37	30	26	31	26	22	26	22	19	20	17	15	13
9	49	37	29	24	45	34	27	23	29	23	20	23	20	17	19	16	14	11
10	46	34	27	22	42	31	25	20	26	21	18	22	18	15	17	14	12	10

POLAR GRAPH



Maximum Candela = 2108.59 Located At Horizontal Angle = 0, Vertical Angle = 130  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)  
# 2 - Horizontal Cone Through Vertical Angle (130) (Through Max. Cd.)