

## IES Report

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

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

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	108	111	113	113
Total Lumens, 4' rail length (1219mm)	11041	11389	11622	11622
Lumens per foot (305mm)	2760	2847	2905	2905
Lumens per foot UP (305mm)	1298	1339	1366	1366
Lumens per foot DOWN (305mm)	1462	1508	1539	1539
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\_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-HO-35-G1G2-BL

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

[MORE] 120° flywing lens down, high 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	11601
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	112
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	42523	44019	52637
55	30988	34920	50154
65	18486	22085	45535
75	5665	9171	34748
85	452	859	12274

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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>	1936.704	1936.704	1936.704	1936.704	1936.704	1936.704	1936.704	1936.704	1936.704	1936.704
<b>5</b>	1963.258	1961.762	1960.244	1957.978	1955.888	1953.666	1951.356	1948.936	1946.450	1943.920
<b>10</b>	2037.574	2034.406	2029.434	2023.736	2016.982	2009.260	2000.570	1986.886	1972.894	1958.528
<b>15</b>	2138.818	2134.022	2125.684	2115.652	2102.034	2080.540	2057.462	2032.998	2007.346	1977.140
<b>20</b>	2231.768	2225.564	2215.114	2200.308	2175.140	2147.552	2116.202	2077.130	2037.024	1995.444
<b>25</b>	2287.450	2279.706	2269.740	2247.806	2222.000	2188.450	2148.938	2108.348	2051.588	1992.562
<b>30</b>	2282.654	2276.252	2265.956	2244.550	2218.128	2185.480	2147.596	2094.708	2033.966	1967.020
<b>35</b>	2216.654	2209.548	2197.954	2182.444	2157.430	2129.600	2096.622	2037.662	1979.626	1908.874
<b>40</b>	2085.336	2080.980	2070.640	2056.252	2039.642	2020.546	1981.804	1935.912	1883.420	1811.062
<b>45</b>	1901.306	1898.094	1890.438	1880.164	1867.382	1853.082	1821.380	1791.064	1733.424	1677.742
<b>50</b>	1658.426	1653.872	1649.274	1646.612	1646.414	1637.834	1618.892	1593.020	1549.064	1491.776
<b>55</b>	1378.674	1377.134	1378.410	1378.080	1368.136	1355.024	1349.084	1333.376	1314.720	1286.670
<b>60</b>	1091.178	1088.648	1083.522	1064.932	1056.418	1050.852	1052.040	1048.058	1040.930	1023.330
<b>65</b>	793.342	789.294	753.962	747.538	754.908	763.224	771.254	769.340	765.336	761.024
<b>70</b>	475.970	457.600	447.744	458.964	477.422	489.632	496.936	505.846	514.734	517.066
<b>75</b>	226.820	208.978	227.942	235.246	241.142	249.172	254.408	258.192	274.208	284.504
<b>80</b>	54.032	66.770	64.570	68.816	72.138	78.210	84.216	94.028	101.838	117.832
<b>85</b>	16.236	19.272	18.172	17.776	17.490	17.952	16.808	17.644	19.492	22.902
<b>90</b>	15.312	15.576	15.576	15.488	15.488	15.312	15.114	14.564	13.750	12.826
<b>95</b>	25.454	38.786	35.332	38.830	44.528	52.360	61.644	86.174	97.218	128.414
<b>100</b>	128.722	140.844	151.140	168.762	195.822	224.356	261.272	303.974	342.914	356.576
<b>105</b>	338.206	344.410	380.952	412.632	451.044	522.830	590.260	637.450	672.254	648.318
<b>110</b>	775.456	789.536	830.126	859.232	974.006	1040.842	1112.694	1155.682	1107.832	937.706
<b>115</b>	1607.892	1603.404	1587.696	1650.946	1646.062	1715.186	1620.586	1503.458	1319.384	1077.934
<b>120</b>	2349.424	2323.882	2255.000	2175.448	2120.338	1957.142	1800.964	1589.742	1347.786	1119.140
<b>125</b>	2445.696	2418.526	2353.956	2257.684	2140.666	1953.028	1755.886	1550.956	1342.066	1147.894
<b>130</b>	2234.892	2217.578	2167.990	2084.434	1963.588	1822.128	1668.502	1502.578	1340.526	1191.916
<b>135</b>	2027.080	2016.124	1974.632	1910.106	1821.930	1712.920	1598.036	1471.536	1345.630	1223.112
<b>140</b>	1868.834	1858.714	1826.616	1776.126	1709.994	1629.100	1534.456	1436.820	1334.806	1234.750
<b>145</b>	1724.998	1715.758	1690.128	1650.176	1595.154	1530.782	1458.600	1375.704	1292.896	1208.240
<b>150</b>	1561.054	1553.200	1534.346	1501.500	1458.732	1407.274	1348.930	1285.416	1219.482	1149.808
<b>155</b>	1377.002	1371.568	1359.534	1337.006	1307.680	1271.160	1228.392	1181.048	1135.112	1087.988
<b>160</b>	1213.080	1210.088	1202.102	1190.134	1171.764	1150.006	1124.530	1094.258	1061.170	1033.208
<b>165</b>	1092.454	1090.188	1085.524	1079.276	1070.784	1058.574	1044.714	1029.314	1012.462	992.992
<b>170</b>	1010.768	1009.470	1007.226	1004.322	1000.670	996.292	991.188	983.708	975.810	967.494
<b>175</b>	960.234	959.596	958.782	957.990	957.000	955.900	954.712	953.436	952.094	950.686
<b>180</b>	941.600	941.600	941.600	941.600	941.600	941.600	941.600	941.600	941.600	941.600

**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>	1936.704	1936.704	1936.704	1936.704	1936.704	1936.704	1936.704	1936.704	1936.704
<b>5</b>	1941.368	1938.794	1936.220	1933.690	1931.204	1928.762	1926.298	1924.098	1921.964
<b>10</b>	1943.942	1929.202	1914.704	1907.356	1900.492	1894.112	1888.238	1882.782	1878.250
<b>15</b>	1947.924	1922.272	1897.170	1872.794	1848.836	1837.176	1827.056	1817.926	1810.930
<b>20</b>	1950.278	1902.648	1856.844	1821.490	1788.292	1756.920	1742.642	1730.542	1722.226
<b>25</b>	1933.712	1871.408	1809.984	1751.596	1707.354	1668.282	1639.462	1624.524	1615.086
<b>30</b>	1893.914	1818.652	1744.402	1674.772	1610.818	1566.114	1526.514	1510.278	1500.752
<b>35</b>	1826.902	1745.678	1658.646	1578.764	1508.012	1452.682	1410.926	1388.794	1376.452
<b>40</b>	1731.796	1640.386	1551.176	1464.232	1391.390	1331.044	1290.256	1264.868	1252.174
<b>45</b>	1591.700	1509.288	1420.980	1336.302	1263.350	1205.182	1167.364	1143.692	1132.472
<b>50</b>	1425.908	1347.170	1266.738	1190.574	1123.166	1074.634	1040.798	1018.842	1007.820
<b>55</b>	1223.816	1159.334	1094.808	1027.378	974.292	933.086	903.584	887.436	883.520
<b>60</b>	995.170	954.426	898.986	846.340	805.948	776.116	756.404	744.172	739.508

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**CANDELA TABULATION - (Cont.)**

<b>65</b>	751.058	724.284	691.856	664.664	642.048	623.392	612.172	603.372	600.270
<b>70</b>	515.196	509.212	498.080	484.638	473.352	460.174	452.584	448.910	446.094
<b>75</b>	295.042	307.142	308.066	301.224	297.924	296.362	288.266	285.362	290.092
<b>80</b>	119.482	129.866	137.896	150.788	164.956	165.022	161.964	159.170	159.522
<b>85</b>	25.872	26.620	28.138	32.406	34.650	36.938	38.038	39.006	40.018
<b>90</b>	11.814	10.692	9.592	8.492	7.370	6.270	5.346	5.082	5.346
<b>95</b>	129.998	121.264	108.218	71.984	55.990	52.976	59.202	65.428	69.344
<b>100</b>	340.868	287.320	224.466	167.068	153.142	164.076	165.506	166.518	165.418
<b>105</b>	573.276	457.776	343.640	273.790	248.578	245.850	250.316	257.620	264.638
<b>110</b>	754.116	580.316	448.602	377.696	351.076	349.536	360.272	371.206	376.948
<b>115</b>	836.220	664.422	551.012	485.078	458.414	456.104	466.202	479.116	486.288
<b>120</b>	911.350	740.410	654.940	596.266	567.490	561.550	568.788	579.084	585.706
<b>125</b>	986.832	855.976	764.060	702.130	667.062	653.268	651.222	654.478	657.250
<b>130</b>	1055.384	947.232	861.960	797.720	751.014	726.242	710.006	699.358	694.122
<b>135</b>	1112.958	1016.444	934.890	868.494	816.442	775.126	743.644	721.666	709.060
<b>140</b>	1137.576	1052.194	973.610	904.288	846.626	796.884	759.770	735.966	722.524
<b>145</b>	1125.608	1049.422	977.438	913.264	857.758	812.416	775.676	756.294	743.732
<b>150</b>	1085.414	1022.780	962.478	912.318	863.214	831.072	799.634	787.050	776.556
<b>155</b>	1038.312	993.168	952.248	910.382	880.968	854.348	834.108	823.636	815.100
<b>160</b>	1004.234	973.280	942.568	921.074	899.734	878.130	869.924	862.334	856.240
<b>165</b>	974.820	959.904	944.834	929.720	914.056	907.918	902.198	896.852	892.386
<b>170</b>	958.804	949.828	940.742	936.738	932.866	929.170	925.650	922.284	919.292
<b>175</b>	949.212	947.694	946.132	944.570	942.986	941.424	939.796	938.300	936.826
<b>180</b>	941.600	941.600	941.600	941.600	941.600	941.600	941.600	941.600	941.600

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	745.82	N.A.	6.40
0-30	1653.7	N.A.	14.30
0-40	2807.16	N.A.	24.20
0-60	5088.7	N.A.	43.90
0-80	6097.69	N.A.	52.60
0-90	6145.59	N.A.	53.00
10-90	5959.62	N.A.	51.40
20-40	2061.34	N.A.	17.80
20-50	3281.08	N.A.	28.30
40-70	2991.09	N.A.	25.80
60-80	1008.99	N.A.	8.70
70-80	299.44	N.A.	2.60
80-90	47.89	N.A.	0.40
90-110	573.28	N.A.	4.90
90-120	1599.53	N.A.	13.80
90-130	2797.04	N.A.	24.10
90-150	4572.11	N.A.	39.40
90-180	5454.92	N.A.	47.00
110-180	4881.64	N.A.	42.10
0-180	11600.51	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	185.97
10-20	559.85
20-30	907.87
30-40	1153.47
40-50	1219.74
50-60	1061.8
60-70	709.56
70-80	299.44
80-90	47.89
90-100	102.25
100-110	471.03
110-120	1026.25
120-130	1197.52
130-140	1008.17
140-150	766.90
150-160	508.20
160-170	283.44
170-180	91.17

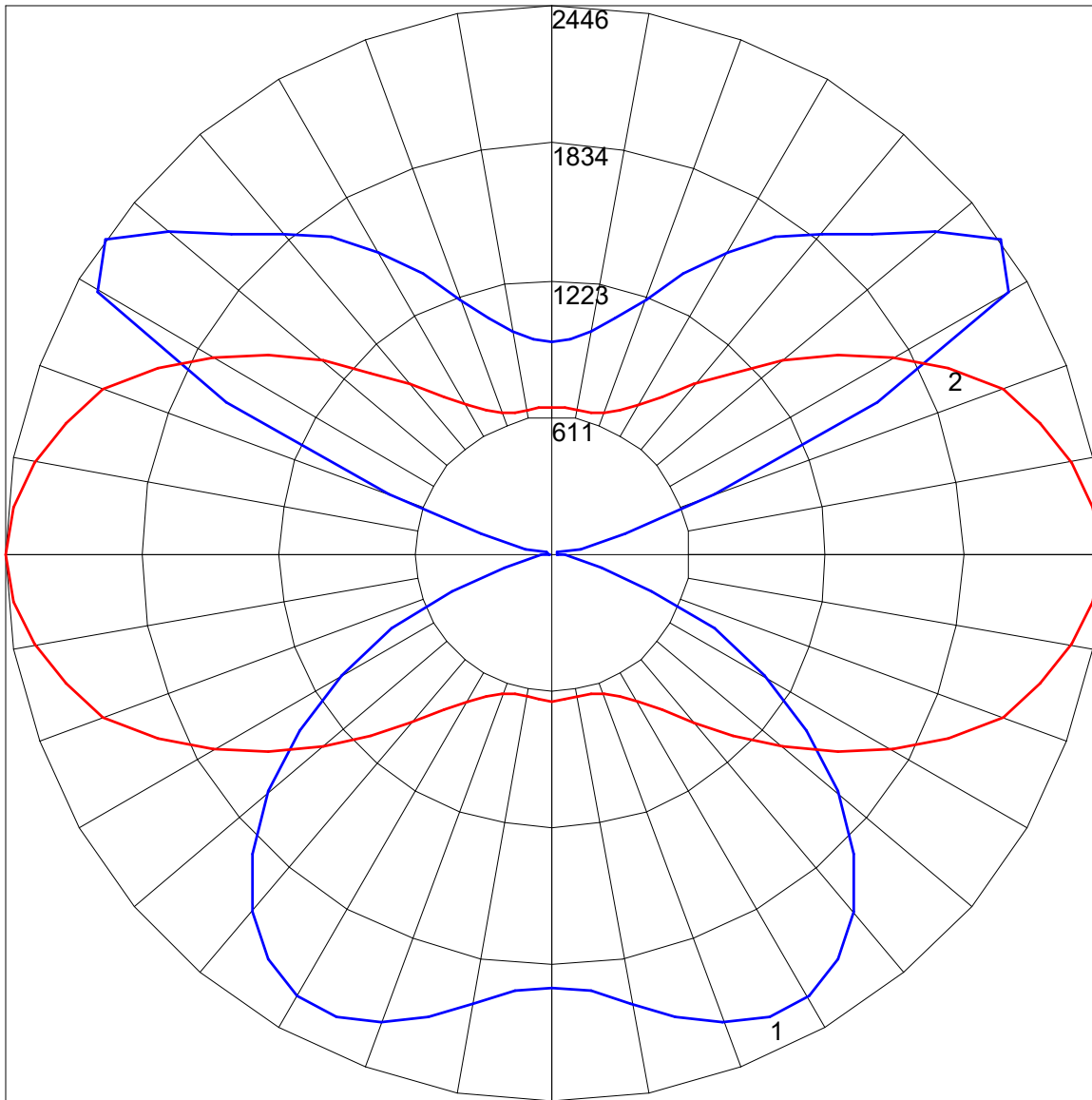
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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 = 2445.696 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.)