

## IES Report

BoxRail® | 207 | Wide Batwing, up | White Baffle, down | 80 CRI | HO

207-BX-XX-4-48-XX-XX-XX-XX-X-X-Z-HO-35-G1WB-X-BL-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	82	84	86	86
Total Lumens, 4' rail length (1219mm)	8380	8644	8821	8821
Lumens per foot (305mm)	2095	2161	2205	2205
Lumens per foot UP (305mm)	1331	1373	1401	1401
Lumens per foot DOWN (305mm)	764	788	804	804
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\_G1WB\_BL.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L022010916 (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-G1WB-BL

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

[MORE] white baffle w/clear 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	8805
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	85
Total Luminaire Watts	103.13
Ballast Factor	1.00
CIE Type	Semi-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	5363	13218	18815
55	3363	7404	14986
65	2922	3767	11348
75	659	1276	7379
85	245	330	2699

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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>	2734.6	2734.6	2734.6	2734.6	2734.6	2734.6	2734.6	2734.6	2734.6	2734.6
<b>5</b>	2728.0	2712.6	2699.4	2686.2	2673.0	2659.8	2648.8	2635.6	2626.8	2615.8
<b>10</b>	2699.4	2673.0	2646.6	2620.2	2596.0	2571.8	2549.8	2508.0	2468.4	2433.2
<b>15</b>	2648.8	2609.2	2569.6	2532.2	2490.4	2426.6	2365.0	2307.8	2252.8	2204.4
<b>20</b>	2574.0	2521.2	2472.8	2415.6	2327.6	2246.2	2167.0	2092.2	2021.8	1958.0
<b>25</b>	2481.6	2420.0	2362.8	2259.4	2151.6	2050.4	1955.8	1867.8	1764.4	1667.6
<b>30</b>	2358.4	2288.0	2204.4	2074.6	1951.4	1834.8	1718.2	1595.0	1478.4	1372.8
<b>35</b>	2189.0	2107.6	1991.0	1848.0	1711.6	1575.2	1438.8	1304.6	1181.4	1056.0
<b>40</b>	1289.2	1254.0	1207.8	1188.0	1190.2	1196.8	1095.6	972.4	858.0	734.8
<b>45</b>	239.8	288.2	387.2	484.0	523.6	530.2	600.6	598.4	556.6	503.8
<b>50</b>	165.0	180.4	206.8	233.2	261.8	312.4	347.6	371.8	376.2	371.8
<b>55</b>	149.6	160.6	178.2	198.0	217.8	242.0	259.6	266.2	270.6	272.8
<b>60</b>	140.8	145.2	151.8	158.4	167.2	176.0	182.6	184.8	189.2	195.8
<b>65</b>	125.4	121.0	114.4	112.2	114.4	116.6	118.8	123.2	125.4	129.8
<b>70</b>	68.2	66.0	66.0	66.0	66.0	68.2	68.2	70.4	74.8	79.2
<b>75</b>	26.4	26.4	28.6	28.6	28.6	30.8	30.8	33.0	37.4	39.6
<b>80</b>	11.0	13.2	11.0	13.2	13.2	13.2	13.2	13.2	13.2	15.4
<b>85</b>	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8
<b>90</b>	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8
<b>95</b>	15.4	33.0	30.8	33.0	39.6	48.4	59.4	81.4	92.4	121.0
<b>100</b>	132.0	140.8	147.4	162.8	189.2	217.8	250.8	292.6	330.0	343.2
<b>105</b>	354.2	360.8	385.0	413.6	446.6	517.0	580.8	622.6	668.8	655.6
<b>110</b>	855.8	855.8	882.2	904.2	996.6	1051.6	1122.0	1163.8	1113.2	965.8
<b>115</b>	1694.0	1674.2	1610.4	1641.2	1630.2	1667.6	1577.4	1465.2	1298.0	1078.0
<b>120</b>	2235.2	2211.0	2138.4	2050.4	1988.8	1848.0	1711.6	1531.2	1331.0	1133.0
<b>125</b>	2241.8	2226.4	2182.4	2114.2	2010.8	1865.6	1711.6	1546.6	1372.8	1196.8
<b>130</b>	2114.2	2101.0	2065.8	2010.8	1927.2	1817.2	1685.2	1546.6	1397.0	1256.2
<b>135</b>	1999.8	1988.8	1955.8	1907.4	1837.0	1744.6	1645.6	1533.4	1419.0	1302.4
<b>140</b>	1885.4	1874.4	1848.0	1810.6	1757.8	1691.8	1610.4	1522.4	1430.0	1339.8
<b>145</b>	1786.4	1777.6	1755.6	1724.8	1680.8	1628.0	1566.4	1493.8	1419.0	1337.6
<b>150</b>	1674.2	1665.4	1647.8	1619.2	1584.0	1540.0	1491.6	1432.2	1364.0	1291.4
<b>155</b>	1531.2	1524.6	1511.4	1489.4	1458.6	1423.4	1379.4	1333.2	1278.2	1218.8
<b>160</b>	1370.6	1366.2	1355.2	1342.0	1317.8	1291.4	1260.6	1223.2	1181.4	1144.0
<b>165</b>	1216.6	1214.4	1207.8	1199.0	1185.8	1168.2	1150.6	1128.6	1104.4	1075.8
<b>170</b>	1093.4	1091.2	1089.0	1084.6	1078.0	1073.6	1064.8	1053.8	1042.8	1031.8
<b>175</b>	1014.2	1014.2	1012.0	1012.0	1009.8	1009.8	1007.6	1005.4	1003.2	1003.2
<b>180</b>	987.8	987.8	987.8	987.8	987.8	987.8	987.8	987.8	987.8	987.8

**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>	2734.6	2734.6	2734.6	2734.6	2734.6	2734.6	2734.6	2734.6	2734.6
<b>5</b>	2607.0	2598.2	2591.6	2585.0	2580.6	2578.4	2574.0	2574.0	2574.0
<b>10</b>	2402.4	2373.8	2349.6	2327.6	2307.8	2292.4	2283.6	2274.8	2274.8
<b>15</b>	2158.2	2116.4	2079.0	2048.2	2024.0	2002.0	1984.4	1973.4	1971.2
<b>20</b>	1892.0	1830.4	1777.6	1729.2	1689.6	1661.0	1632.4	1610.4	1606.0
<b>25</b>	1579.6	1507.0	1443.2	1388.2	1339.8	1302.4	1276.0	1256.2	1254.0
<b>30</b>	1276.0	1185.8	1095.6	1016.4	952.6	897.6	855.8	827.2	825.0
<b>35</b>	928.4	811.8	752.4	708.4	673.2	642.4	622.6	611.6	609.4
<b>40</b>	657.8	587.4	556.6	539.0	523.6	512.6	503.8	499.4	495.0
<b>45</b>	481.8	462.0	448.8	435.6	424.6	418.0	411.4	407.0	404.8
<b>50</b>	369.6	360.8	352.0	347.6	343.2	336.6	332.2	330.0	330.0
<b>55</b>	275.0	272.8	270.6	270.6	268.4	266.2	264.0	261.8	264.0
<b>60</b>	202.4	200.2	204.6	204.6	204.6	204.6	204.6	202.4	202.4

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**CANDELA TABULATION - (Cont.)**

<b>65</b>	136.4	138.6	147.4	149.6	149.6	149.6	151.8	151.8	149.6
<b>70</b>	83.6	88.0	92.4	96.8	101.2	101.2	103.4	103.4	103.4
<b>75</b>	41.8	46.2	50.6	55.0	59.4	59.4	61.6	63.8	61.6
<b>80</b>	17.6	17.6	19.8	22.0	24.2	26.4	28.6	28.6	28.6
<b>85</b>	8.8	6.6	6.6	6.6	6.6	6.6	6.6	8.8	8.8
<b>90</b>	6.6	6.6	6.6	4.4	4.4	4.4	2.2	2.2	4.4
<b>95</b>	127.6	116.6	90.2	74.8	57.2	52.8	63.8	63.8	61.6
<b>100</b>	341.0	292.6	233.2	184.8	162.8	156.2	160.6	167.2	165.0
<b>105</b>	598.4	484.0	363.0	286.0	250.8	244.2	250.8	253.0	255.2
<b>110</b>	787.6	600.6	464.2	387.2	356.4	349.8	360.8	369.6	374.0
<b>115</b>	869.0	695.2	572.0	499.4	466.4	459.8	470.8	481.8	486.2
<b>120</b>	954.8	796.4	684.2	613.8	580.8	572.0	576.4	585.2	591.8
<b>125</b>	1042.8	908.6	803.0	730.4	688.6	668.8	662.2	664.4	666.6
<b>130</b>	1122.0	1014.2	921.8	849.2	796.4	759.0	730.4	712.8	704.0
<b>135</b>	1196.8	1097.8	1009.8	937.2	873.4	818.4	770.0	737.0	719.4
<b>140</b>	1247.4	1157.2	1069.2	987.8	913.0	844.8	789.8	754.6	734.8
<b>145</b>	1251.8	1168.2	1080.2	1001.0	924.0	860.2	805.2	776.6	756.8
<b>150</b>	1216.6	1139.6	1064.8	994.4	926.2	875.6	827.2	809.6	794.2
<b>155</b>	1157.2	1097.8	1040.6	981.2	937.2	897.6	866.8	851.4	838.2
<b>160</b>	1102.2	1058.2	1014.2	983.4	950.4	917.4	906.4	893.2	884.4
<b>165</b>	1051.6	1029.6	1007.6	983.4	961.4	952.6	943.8	935.0	928.4
<b>170</b>	1018.6	1005.4	992.2	985.6	981.2	974.6	970.2	965.8	961.4
<b>175</b>	1001.0	998.8	996.6	994.4	992.2	990.0	987.8	985.6	983.4
<b>180</b>	987.8	987.8	987.8	987.8	987.8	987.8	987.8	987.8	987.8

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	875.41	N.A.	9.90
0-30	1674.77	N.A.	19.00
0-40	2400.8	N.A.	27.30
0-60	3018.64	N.A.	34.30
0-80	3199.37	N.A.	36.30
0-90	3210.53	N.A.	36.50
10-90	2964.65	N.A.	33.70
20-40	1525.39	N.A.	17.30
20-50	1921.37	N.A.	21.80
40-70	749.76	N.A.	8.50
60-80	180.73	N.A.	2.10
70-80	48.81	N.A.	0.60
80-90	11.16	N.A.	0.10
90-110	576.13	N.A.	6.50
90-120	1601.41	N.A.	18.20
90-130	2778.94	N.A.	31.60
90-150	4633.81	N.A.	52.60
90-180	5594.35	N.A.	63.50
110-180	5018.22	N.A.	57.00
0-180	8804.88	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	245.88
10-20	629.53
20-30	799.36
30-40	726.04
40-50	395.98
50-60	221.86
60-70	131.93
70-80	48.81
80-90	11.16
90-100	98.18
100-110	477.96
110-120	1025.28
120-130	1177.52
130-140	1036.42
140-150	818.44
150-160	556.95
160-170	307.17
170-180	96.42

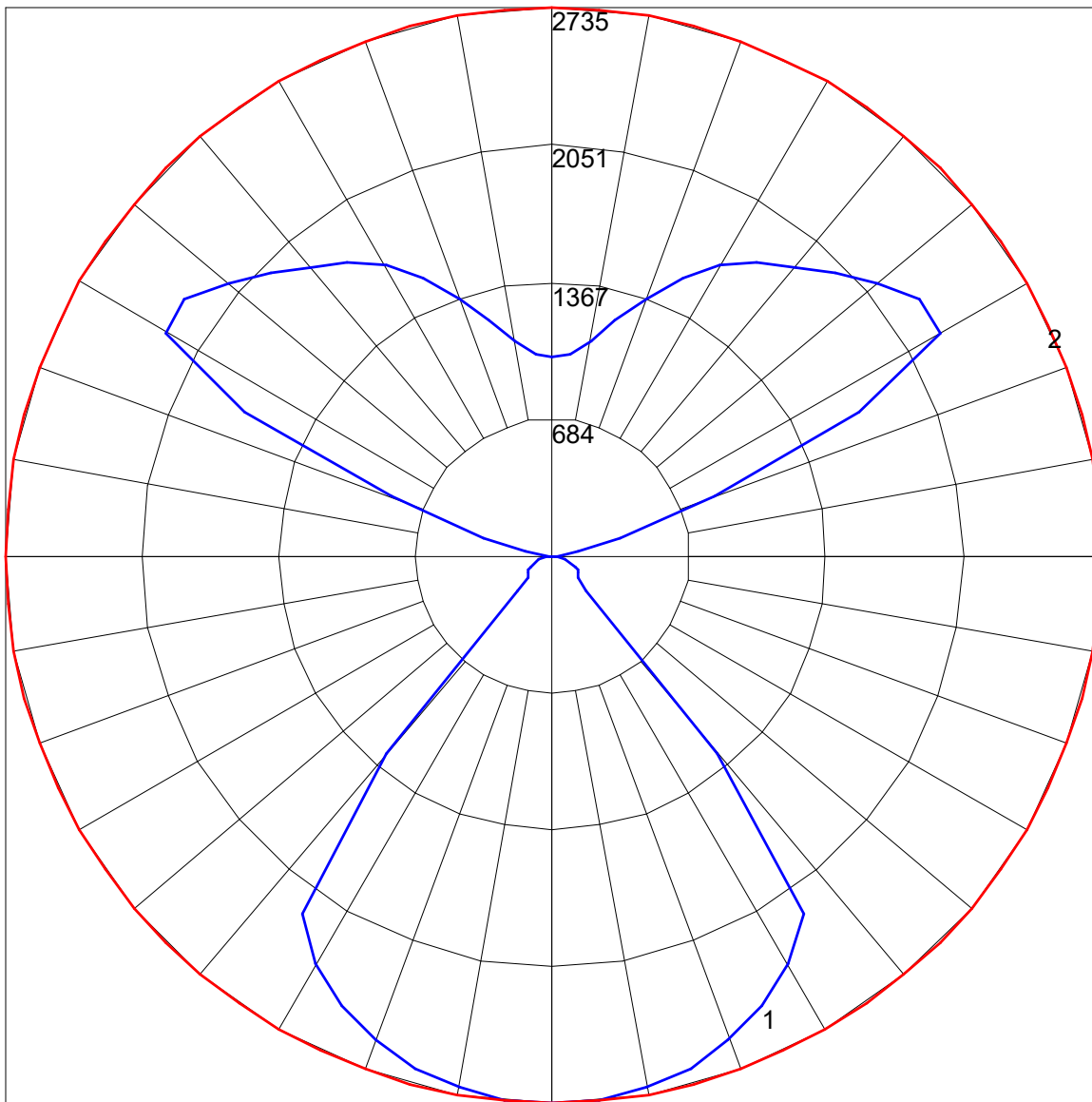
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	104	104	104	104	94	94	94	94	76	76	76	59	59	59	44	44	44	36
1	96	92	89	86	87	84	81	78	68	66	64	54	52	51	40	40	39	33
2	88	82	76	72	80	75	70	66	61	58	55	49	47	45	37	36	35	30
3	81	73	67	61	74	67	61	57	55	51	48	44	42	39	34	32	31	27
4	75	66	59	53	68	60	54	49	50	45	42	40	37	35	31	30	28	24
5	69	59	52	47	63	54	48	43	45	41	37	37	34	31	29	27	25	22
6	64	54	46	41	59	49	43	38	41	37	33	34	31	28	27	25	23	20
7	60	49	42	37	55	45	39	34	38	33	30	31	28	25	25	23	21	18
8	56	45	38	33	51	41	35	31	35	30	27	29	26	23	23	21	19	17
9	52	41	34	30	48	38	32	28	32	28	25	27	24	21	22	20	18	16
10	49	38	31	27	45	35	29	25	30	26	22	25	22	20	20	18	17	15

POLAR GRAPH



Maximum Candela = 2734.6 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)  
# 2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)