

IES Report

BoxRail® | 207 | Wide Batwing, up | 40° Symmetric, down | 80 CRI | HO

207-BX-XX-4-48-XX-XX-XX-XX-X-X-Z-HO-35-G1S1-X-AL / WH-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	81	83	85	85
Total Lumens, 4' rail length (1219mm)	8272	8533	8707	8707
Lumens per foot (305mm)	2068	2133	2177	2177
Lumens per foot UP (305mm)	1439	1484	1515	1515
Lumens per foot DOWN (305mm)	629	649	662	662
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_G1S1.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L022010907 (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-G1S1

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

[MORE] 40° symmetric 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	8692
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	84
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	5757	10332	38039
55	3758	6269	25976
65	2461	3831	18524
75	1319	1915	12649
85	367	495	6748

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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>
0	2230.8	2230.8	2230.8	2230.8	2230.8	2230.8	2230.8	2230.8	2230.8	2230.8
5	2147.2	2145.0	2145.0	2145.0	2147.2	2147.2	2149.4	2153.8	2156.0	2160.4
10	1909.6	1907.4	1911.8	1918.4	1929.4	1942.6	1960.2	1973.4	1991.0	2013.0
15	1564.2	1564.2	1575.2	1592.8	1614.8	1639.0	1669.8	1707.2	1751.2	1797.4
20	1194.6	1194.6	1212.2	1236.4	1265.0	1302.4	1348.6	1399.2	1456.4	1515.8
25	866.8	871.2	886.6	910.8	941.6	983.4	1029.6	1082.4	1148.4	1223.2
30	620.4	624.8	638.0	657.8	686.4	719.4	756.8	809.6	877.8	943.8
35	446.6	448.8	459.8	477.4	499.4	525.8	554.4	602.8	653.4	712.8
40	332.2	334.4	343.2	354.2	369.6	385.0	413.6	446.6	481.8	532.4
45	257.4	259.6	264.0	272.8	281.6	292.6	312.4	332.2	363.0	393.8
50	206.8	206.8	211.2	215.6	220.0	228.8	239.8	255.2	275.0	301.4
55	167.2	169.4	169.4	173.8	176.0	180.4	187.0	200.2	213.4	231.0
60	136.4	136.4	136.4	136.4	136.4	140.8	147.4	154.0	162.8	176.0
65	105.6	107.8	105.6	103.4	105.6	107.8	112.2	116.6	123.2	132.0
70	77.0	72.6	74.8	77.0	77.0	79.2	83.6	85.8	90.2	94.6
75	52.8	50.6	52.8	52.8	50.6	52.8	52.8	52.8	57.2	59.4
80	33.0	30.8	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0
85	13.2	13.2	13.2	13.2	11.0	13.2	11.0	11.0	13.2	13.2
90	13.2	13.2	11.0	11.0	11.0	11.0	11.0	11.0	8.8	8.8
95	48.4	66.0	66.0	68.2	72.6	74.8	79.2	94.6	96.8	103.4
100	204.6	206.8	213.4	222.2	233.2	244.2	259.6	275.0	283.8	294.8
105	448.8	413.6	444.4	459.8	470.8	488.4	501.6	514.8	519.2	517.0
110	811.8	789.8	774.4	776.6	820.6	840.4	847.0	855.8	825.0	800.8
115	1331.0	1317.8	1258.4	1251.8	1240.8	1251.8	1225.4	1190.2	1137.4	1060.4
120	1733.6	1727.0	1702.8	1650.0	1612.6	1564.2	1511.4	1452.0	1359.6	1254.0
125	2017.4	2004.2	1977.8	1942.6	1907.4	1815.0	1744.6	1634.6	1522.4	1392.6
130	2162.6	2149.4	2116.4	2068.0	2010.8	1931.6	1832.6	1722.6	1595.0	1463.0
135	2171.4	2160.4	2129.6	2079.0	2017.4	1942.6	1843.6	1740.2	1621.4	1502.6
140	2103.2	2092.2	2065.8	2021.8	1964.6	1894.2	1808.4	1716.0	1614.8	1513.6
145	1993.2	1984.4	1962.4	1925.0	1876.6	1815.0	1746.8	1667.6	1586.2	1500.4
150	1861.2	1852.4	1837.0	1808.4	1768.8	1722.6	1667.6	1608.2	1544.4	1478.4
155	1724.8	1718.2	1707.2	1687.4	1658.8	1625.8	1586.2	1542.2	1496.0	1449.8
160	1599.4	1597.2	1588.4	1577.4	1557.6	1535.6	1511.4	1480.6	1447.6	1419.0
165	1496.0	1493.8	1487.2	1480.6	1471.8	1458.6	1443.2	1427.8	1410.2	1390.4
170	1416.8	1414.6	1412.4	1408.0	1403.6	1399.2	1394.8	1386.0	1379.4	1370.6
175	1366.2	1366.2	1366.2	1364.0	1361.8	1361.8	1359.6	1359.6	1357.4	1355.2
180	1348.6	1348.6	1348.6	1348.6	1348.6	1348.6	1348.6	1348.6	1348.6	1348.6

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>
0	2230.8	2230.8	2230.8	2230.8	2230.8	2230.8	2230.8	2230.8	2230.8
5	2164.8	2169.2	2175.8	2180.2	2186.8	2193.4	2200.0	2206.6	2213.2
10	2037.2	2063.6	2092.2	2101.0	2109.8	2120.8	2134.0	2147.2	2162.6
15	1839.2	1874.4	1911.8	1953.6	2002.0	2017.4	2032.8	2050.4	2072.4
20	1579.6	1643.4	1711.6	1760.0	1812.8	1874.4	1892.0	1911.8	1938.2
25	1302.4	1379.4	1456.4	1537.8	1599.4	1661.0	1707.2	1727.0	1755.6
30	1023.0	1111.0	1194.6	1280.4	1366.2	1425.6	1491.6	1509.2	1537.8
35	781.0	853.6	941.6	1025.2	1108.8	1179.2	1240.8	1269.4	1291.4
40	587.4	655.6	723.8	796.4	866.8	928.4	985.6	1020.8	1040.6
45	442.2	492.8	550.0	611.6	673.2	728.2	774.4	803.0	818.4
50	332.2	369.6	413.6	459.8	508.2	550.0	585.2	609.4	618.2
55	253.0	279.4	308.0	343.2	378.4	409.2	435.6	453.2	457.6
60	191.4	209.0	231.0	255.2	279.4	301.4	323.4	334.4	338.8

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CANDELA TABULATION - (Cont.)

65	143.0	156.2	171.6	187.0	202.4	217.8	228.8	237.6	244.2
70	101.2	112.2	121.0	132.0	143.0	158.4	165.0	165.0	169.4
75	66.0	70.4	79.2	83.6	92.4	99.0	101.2	105.6	105.6
80	35.2	37.4	41.8	44.0	48.4	52.8	55.0	57.2	57.2
85	13.2	13.2	15.4	15.4	17.6	17.6	17.6	19.8	22.0
90	8.8	6.6	6.6	4.4	4.4	4.4	4.4	4.4	4.4
95	112.2	121.0	118.8	112.2	88.0	81.4	81.4	83.6	83.6
100	286.0	279.4	266.2	237.6	215.6	204.6	191.4	182.6	180.4
105	503.8	481.8	442.2	396.0	356.4	327.8	303.6	290.4	290.4
110	754.6	684.2	613.8	545.6	488.4	446.6	420.2	404.8	400.4
115	968.0	860.2	763.4	677.6	609.4	563.2	530.2	514.8	508.2
120	1139.6	1014.2	897.6	794.2	721.6	673.2	640.2	618.2	613.8
125	1254.0	1124.2	1007.6	902.0	829.4	774.4	737.0	719.4	712.8
130	1333.2	1210.0	1100.0	1003.2	924.0	871.2	833.8	807.4	798.6
135	1381.6	1271.6	1168.2	1082.4	1009.8	957.0	919.6	895.4	886.6
140	1408.0	1313.4	1225.4	1146.2	1082.4	1031.8	998.8	976.8	965.8
145	1416.8	1337.6	1265.0	1199.0	1146.2	1102.2	1071.4	1053.8	1042.8
150	1414.6	1353.0	1293.6	1243.0	1194.6	1163.8	1135.2	1124.2	1115.4
155	1401.4	1357.4	1313.4	1273.8	1243.0	1216.6	1196.8	1188.0	1179.2
160	1388.2	1357.4	1324.4	1302.4	1282.6	1260.6	1251.8	1243.0	1238.6
165	1370.6	1355.2	1339.8	1324.4	1309.0	1302.4	1295.8	1289.2	1284.8
170	1361.8	1350.8	1342.0	1337.6	1333.2	1331.0	1326.6	1322.2	1320.0
175	1355.2	1353.0	1350.8	1350.8	1348.6	1346.4	1344.2	1344.2	1342.0
180	1348.6	1348.6	1348.6	1348.6	1348.6	1348.6	1348.6	1348.6	1348.6

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	704.29	N.A.	8.10
0-30	1286.14	N.A.	14.80
0-40	1783.98	N.A.	20.50
0-60	2394.45	N.A.	27.50
0-80	2623.12	N.A.	30.20
0-90	2644.01	N.A.	30.40
10-90	2441.59	N.A.	28.10
20-40	1079.68	N.A.	12.40
20-50	1444.1	N.A.	16.60
40-70	763.18	N.A.	8.80
60-80	228.67	N.A.	2.60
70-80	75.96	N.A.	0.90
80-90	20.89	N.A.	0.20
90-110	586.63	N.A.	6.70
90-120	1528.16	N.A.	17.60
90-130	2738.28	N.A.	31.50
90-150	4850.08	N.A.	55.80
90-180	6047.51	N.A.	69.60
110-180	5460.87	N.A.	62.80
0-180	8691.52	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	202.41
10-20	501.88
20-30	581.84
30-40	497.84
40-50	364.42
50-60	246.06
60-70	152.71
70-80	75.96
80-90	20.89
90-100	115.09
100-110	471.54
110-120	941.53
120-130	1210.12
130-140	1165.14
140-150	946.66
150-160	672.30
160-170	395.33
170-180	129.79

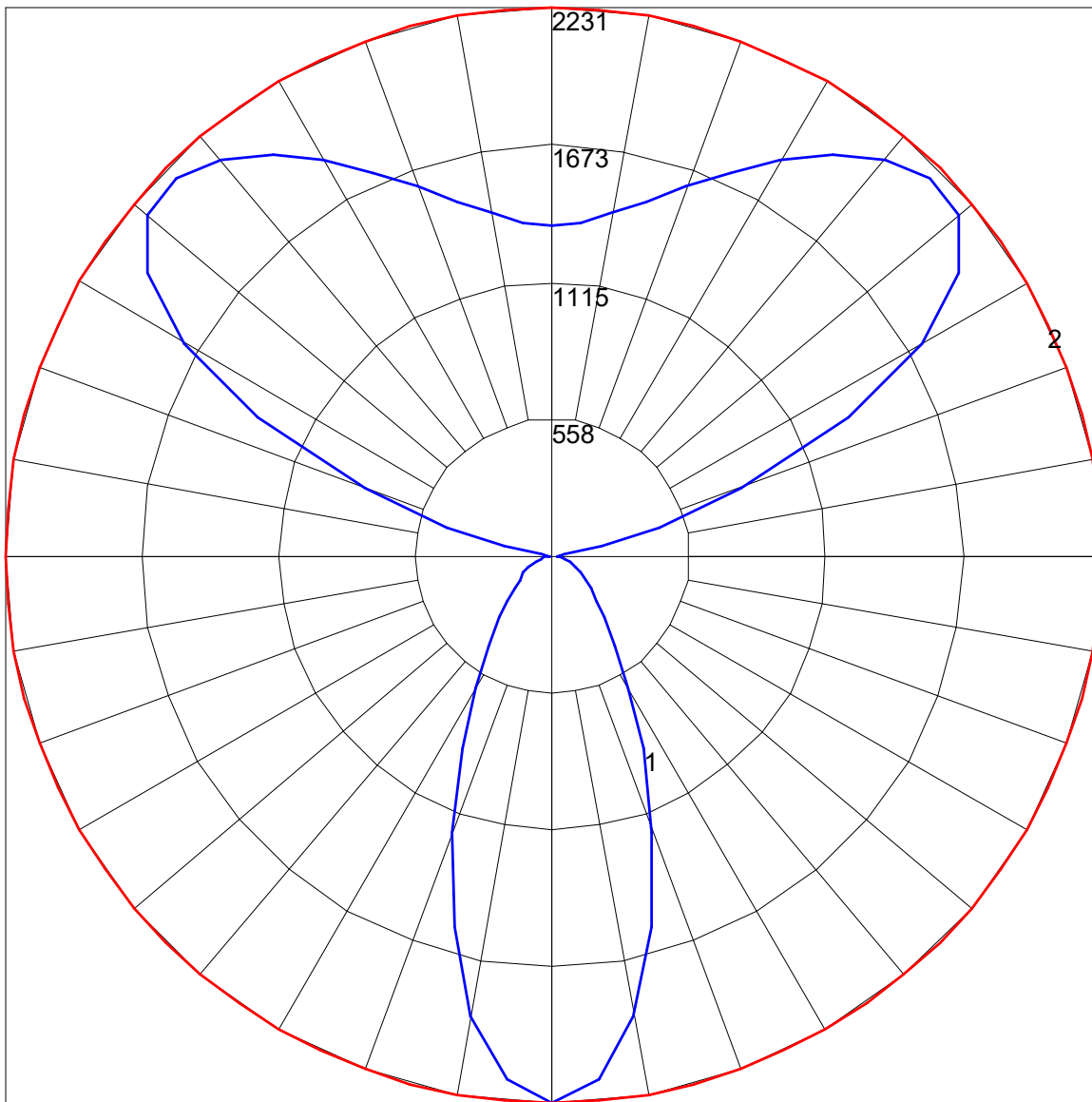
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	102	102	102	102	92	92	92	92	72	72	72	55	55	55	38	38	38	30
1	94	90	87	84	84	81	78	76	64	63	61	49	48	47	35	34	34	27
2	86	80	74	70	77	72	67	63	57	54	52	44	42	40	32	30	30	24
3	79	71	64	59	71	64	58	54	51	48	44	40	37	35	29	27	26	21
4	73	63	56	51	65	57	51	46	46	42	39	36	33	31	26	25	23	19
5	67	57	49	44	60	52	45	40	42	37	34	33	30	27	24	22	21	17
6	62	51	44	38	56	47	40	36	38	33	30	30	27	24	22	20	19	16
7	58	46	39	34	52	42	36	32	35	30	27	28	24	22	21	19	17	14
8	54	42	35	30	48	39	33	28	32	27	24	25	22	20	19	17	16	13
9	50	39	32	27	45	36	30	25	29	25	22	24	20	18	18	16	15	12
10	47	36	29	25	42	33	27	23	27	23	20	22	19	17	17	15	14	12

POLAR GRAPH



Maximum Candela = 2230.8 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.)