

IES Report

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

207-BX-XX-4-48-XX-XX-XX-XX-X-X-Z-HO-35-G1BB-X-AL / WH-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	74	76	78	78
Total Lumens, 4' rail length (1219mm)	7557	7796	7955	7955
Lumens per foot (305mm)	1889	1949	1989	1989
Lumens per foot UP (305mm)	1416	1460	1490	1490
Lumens per foot DOWN (305mm)	474	488	498	498
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_G1BB.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L022010905 (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-G1BB

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

[MORE] black baffle w/clear 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	7940
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	77
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	1181	2944	2556
55	989	955	1374
65	769	511	668
75	495	425	527
85	490	413	675

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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	2400.2	2400.2	2400.2	2400.2	2400.2	2400.2	2400.2	2400.2	2400.2	2400.2
5	2389.2	2369.4	2351.8	2334.2	2316.6	2301.2	2283.6	2270.4	2255.0	2244.0
10	2360.6	2323.2	2288.0	2252.8	2219.8	2186.8	2158.2	2107.6	2063.6	2021.8
15	2312.2	2261.6	2213.2	2164.8	2109.8	2030.6	1955.8	1885.4	1819.4	1757.8
20	2246.2	2175.8	2109.8	2037.2	1933.8	1832.6	1738.0	1647.8	1564.2	1485.0
25	2162.6	2079.0	1997.6	1874.4	1746.8	1623.6	1509.2	1401.4	1291.4	1188.0
30	2057.0	1962.4	1852.4	1698.4	1548.8	1408.0	1265.0	1126.4	1001.0	891.0
35	1931.6	1832.6	1685.2	1507.0	1339.8	1170.4	1003.2	855.8	721.6	585.2
40	1174.8	1093.4	976.8	886.6	844.8	829.4	728.2	576.4	418.0	286.0
45	52.8	96.8	180.4	233.2	226.6	195.8	270.6	242.0	176.0	112.2
50	48.4	48.4	46.2	44.0	44.0	52.8	50.6	59.4	61.6	63.8
55	44.0	44.0	41.8	37.4	35.2	33.0	30.8	30.8	33.0	35.2
60	41.8	39.6	37.4	33.0	28.6	26.4	24.2	22.0	22.0	22.0
65	33.0	33.0	30.8	28.6	24.2	24.2	22.0	19.8	17.6	17.6
70	26.4	26.4	24.2	24.2	22.0	19.8	19.8	17.6	15.4	15.4
75	19.8	19.8	22.0	19.8	17.6	17.6	15.4	15.4	13.2	13.2
80	22.0	22.0	19.8	19.8	17.6	17.6	15.4	13.2	13.2	11.0
85	17.6	19.8	19.8	19.8	17.6	17.6	15.4	15.4	13.2	11.0
90	13.2	13.2	13.2	11.0	11.0	11.0	11.0	11.0	8.8	8.8
95	52.8	63.8	61.6	61.6	63.8	66.0	68.2	77.0	90.2	90.2
100	191.4	198.0	204.6	213.4	224.4	237.6	253.0	266.2	277.2	281.6
105	442.2	407.0	442.2	455.4	466.4	486.2	506.0	517.0	530.2	530.2
110	820.6	794.2	772.2	800.8	827.2	833.8	849.2	860.2	853.6	809.6
115	1320.0	1309.0	1251.8	1254.0	1245.2	1247.4	1223.2	1185.8	1133.0	1058.2
120	1738.0	1727.0	1702.8	1654.4	1619.2	1562.0	1507.0	1441.0	1342.0	1234.2
125	1999.8	1988.8	1962.4	1927.2	1881.0	1790.8	1718.2	1610.4	1500.4	1372.8
130	2131.8	2118.6	2087.8	2041.6	1984.4	1903.0	1804.0	1698.4	1573.0	1445.4
135	2151.6	2142.8	2109.8	2063.6	2002.0	1925.0	1823.8	1718.2	1599.4	1480.6
140	2096.6	2085.6	2057.0	2013.0	1953.6	1885.4	1797.4	1700.6	1595.0	1487.2
145	1984.4	1975.6	1951.4	1916.2	1865.6	1804.0	1733.6	1652.2	1566.4	1478.4
150	1845.8	1839.2	1821.6	1790.8	1751.2	1702.8	1645.6	1581.8	1518.0	1447.6
155	1700.6	1694.0	1683.0	1661.0	1632.4	1597.2	1555.4	1511.4	1463.0	1414.6
160	1564.2	1562.0	1553.2	1540.0	1520.2	1498.2	1471.8	1441.0	1408.0	1377.2
165	1452.0	1449.8	1443.2	1436.6	1427.8	1414.6	1399.2	1381.6	1364.0	1342.0
170	1366.2	1364.0	1361.8	1359.6	1355.2	1350.8	1344.2	1337.6	1328.8	1320.0
175	1313.4	1313.4	1311.2	1311.2	1309.0	1309.0	1306.8	1306.8	1304.6	1302.4
180	1293.6	1293.6	1293.6	1293.6	1293.6	1293.6	1293.6	1293.6	1293.6	1293.6

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	2400.2	2400.2	2400.2	2400.2	2400.2	2400.2	2400.2	2400.2	2400.2
5	2233.0	2222.0	2213.2	2206.6	2202.2	2197.8	2195.6	2195.6	2195.6
10	1986.6	1953.6	1925.0	1898.6	1878.8	1863.4	1852.4	1845.8	1845.8
15	1702.8	1652.2	1608.2	1573.0	1544.4	1520.2	1502.6	1491.6	1493.8
20	1408.0	1335.4	1271.6	1221.0	1181.4	1150.6	1126.4	1108.8	1106.6
25	1095.6	1012.0	937.2	875.6	827.2	787.6	759.0	739.2	734.8
30	785.4	686.4	596.2	514.8	448.8	393.8	354.2	330.0	330.0
35	455.4	336.6	275.0	226.6	189.2	158.4	132.0	116.6	110.0
40	217.8	145.2	112.2	103.4	94.6	88.0	83.6	79.2	77.0
45	105.6	90.2	79.2	72.6	66.0	61.6	57.2	55.0	55.0
50	63.8	59.4	55.0	50.6	46.2	41.8	39.6	37.4	37.4
55	37.4	37.4	35.2	33.0	30.8	28.6	26.4	24.2	24.2
60	24.2	24.2	24.2	22.0	19.8	17.6	17.6	15.4	15.4

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CANDELA TABULATION - (Cont.)

65	17.6	15.4	15.4	15.4	13.2	13.2	11.0	11.0	8.8
70	13.2	13.2	11.0	11.0	11.0	8.8	8.8	6.6	6.6
75	11.0	11.0	8.8	8.8	8.8	6.6	6.6	4.4	4.4
80	11.0	8.8	8.8	6.6	6.6	6.6	4.4	4.4	2.2
85	11.0	8.8	8.8	6.6	4.4	4.4	4.4	2.2	2.2
90	6.6	6.6	6.6	4.4	4.4	4.4	4.4	2.2	2.2
95	94.6	105.6	105.6	90.2	85.8	83.6	83.6	81.4	81.4
100	283.8	283.8	261.8	235.4	222.2	202.4	187.0	178.2	178.2
105	517.0	490.6	444.4	393.8	352.0	319.0	292.6	283.8	281.6
110	745.8	682.0	609.4	534.6	475.2	435.6	407.0	391.6	387.2
115	961.4	853.6	754.6	666.6	596.2	547.8	514.8	497.2	495.0
120	1119.8	994.4	880.0	785.4	708.4	657.8	624.8	602.8	594.0
125	1234.2	1106.6	987.8	886.6	805.2	752.4	719.4	697.4	686.4
130	1315.6	1192.4	1080.2	981.2	902.0	840.4	800.8	774.4	756.8
135	1361.8	1251.8	1146.2	1058.2	983.4	928.4	891.0	866.8	855.8
140	1383.8	1287.0	1196.8	1117.6	1053.8	1001.0	965.8	943.8	932.8
145	1390.4	1309.0	1236.4	1168.2	1113.2	1069.2	1034.0	1016.4	1005.4
150	1381.6	1320.0	1258.4	1205.6	1157.2	1126.4	1097.8	1084.6	1075.8
155	1364.0	1317.8	1273.8	1232.0	1201.2	1174.8	1155.0	1141.8	1133.0
160	1346.4	1313.4	1280.4	1256.2	1234.2	1212.2	1203.4	1194.6	1188.0
165	1322.2	1306.8	1291.4	1273.8	1258.4	1251.8	1245.2	1238.6	1234.2
170	1309.0	1300.2	1291.4	1287.0	1282.6	1278.2	1273.8	1269.4	1267.2
175	1300.2	1300.2	1298.0	1295.8	1293.6	1291.4	1289.2	1289.2	1287.0
180	1293.6	1293.6	1293.6	1293.6	1293.6	1293.6	1293.6	1293.6	1293.6

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	717.34	N.A.	9.00
0-30	1305.66	N.A.	16.40
0-40	1766.81	N.A.	22.30
0-60	1944.21	N.A.	24.50
0-80	1978.17	N.A.	24.90
0-90	1990.07	N.A.	25.10
10-90	1780.1	N.A.	22.40
20-40	1049.47	N.A.	13.20
20-50	1194.99	N.A.	15.00
40-70	197.15	N.A.	2.50
60-80	33.96	N.A.	0.40
70-80	14.21	N.A.	0.20
80-90	11.90	N.A.	0.10
90-110	579.06	N.A.	7.30
90-120	1514.4	N.A.	19.10
90-130	2707.42	N.A.	34.10
90-150	4787.15	N.A.	60.30
90-180	5950.38	N.A.	74.90
110-180	5371.32	N.A.	67.60
0-180	7940.45	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	209.96
10-20	507.37
20-30	588.33
30-40	461.15
40-50	145.52
50-60	31.89
60-70	19.74
70-80	14.21
80-90	11.90
90-100	109.20
100-110	469.86
110-120	935.34
120-130	1193.02
130-140	1147.62
140-150	932.12
150-160	656.30
160-170	382.17
170-180	124.76

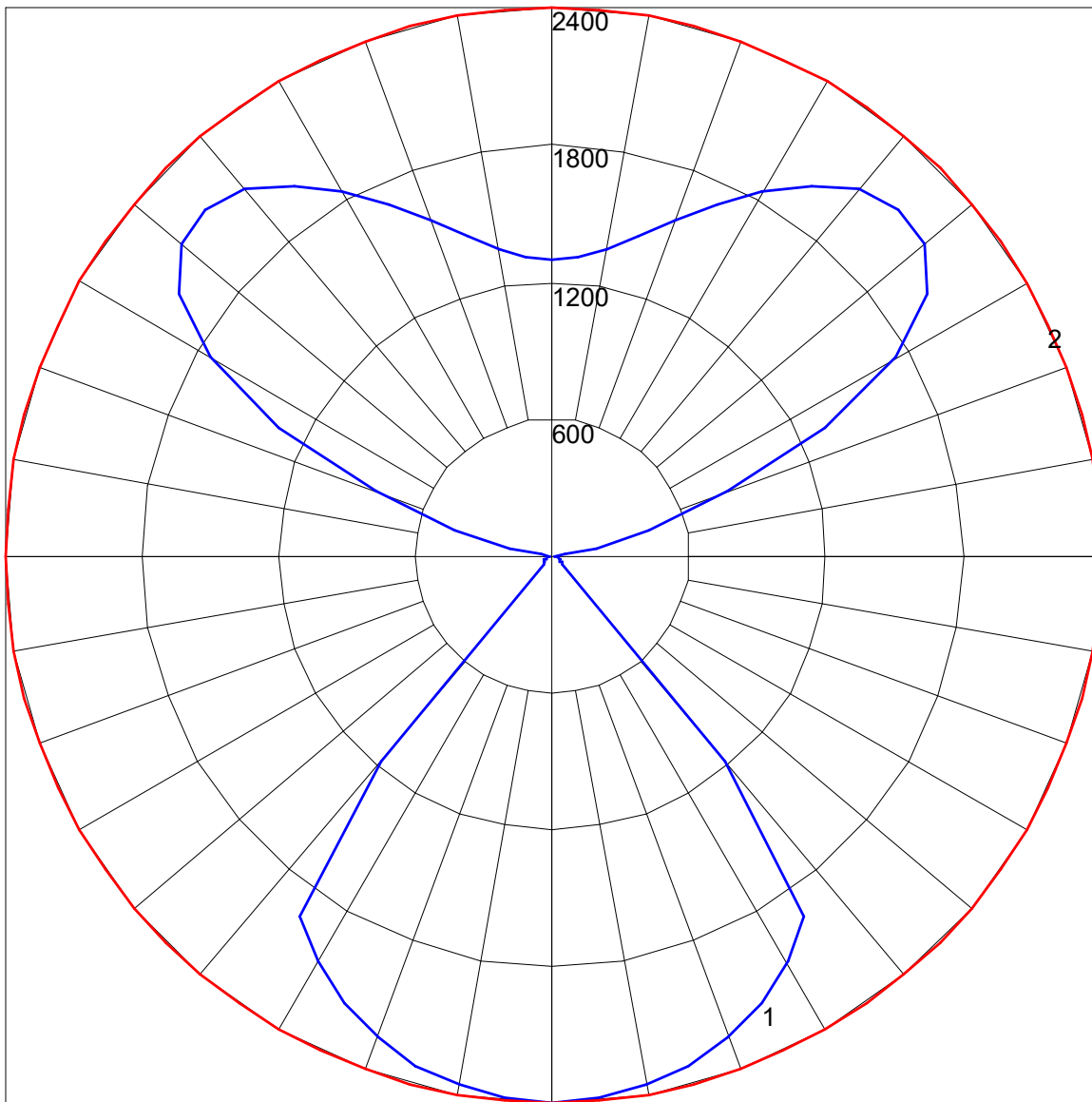
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	101	101	101	101	90	90	90	90	69	69	69	51	51	51	33	33	33	25
1	93	89	86	83	83	80	77	75	62	60	59	46	45	44	31	30	30	23
2	86	80	74	70	77	71	67	63	56	53	51	42	40	39	29	28	27	21
3	79	71	65	60	71	64	59	54	51	47	44	38	36	34	27	26	25	20
4	73	64	57	52	65	58	52	47	46	42	39	35	33	31	25	24	23	18
5	68	58	50	45	60	52	46	42	42	38	34	32	30	27	23	22	21	17
6	63	52	45	40	56	47	41	37	38	34	31	30	27	25	22	20	19	16
7	58	47	40	36	52	43	37	33	35	31	28	27	25	23	20	19	18	15
8	54	43	37	32	49	40	34	30	32	28	25	25	23	21	19	17	16	14
9	51	40	33	29	46	37	31	27	30	26	23	24	21	19	18	16	15	13
10	48	37	30	26	43	34	28	24	28	24	21	22	19	18	17	15	14	12

POLAR GRAPH



Maximum Candela = 2400.2 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.)