

IES Report

BoxRail® | 207 | Wide Batwing, up | 60° Symmetric, down | 80 CRI | HO

207-BX-XX-4-48-XX-XX-XX-XX-X-X-Z-HO-35-G1S2-X-AL / WH-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	88	91	93	93
Total Lumens, 4' rail length (1219mm)	9039	9324	9514	9514
Lumens per foot (305mm)	2260	2331	2379	2379
Lumens per foot UP (305mm)	1442	1487	1518	1518
Lumens per foot DOWN (305mm)	818	844	861	861
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_G1S2.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L022010908 (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-G1S2

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

[MORE] 60° 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	9497
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	92
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	8906	15873	43663
55	5341	9314	31970
65	3332	5427	22864
75	1648	2624	18183
85	306	578	8097

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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	2512.4	2512.4	2512.4	2512.4	2512.4	2512.4	2512.4	2512.4	2512.4	2512.4
5	2455.2	2453.0	2453.0	2453.0	2453.0	2453.0	2455.2	2455.2	2457.4	2459.6
10	2283.6	2281.4	2283.6	2288.0	2294.6	2303.4	2314.4	2323.2	2332.0	2345.2
15	2010.8	2010.8	2019.6	2030.6	2048.2	2063.6	2083.4	2109.8	2142.8	2173.6
20	1672.0	1672.0	1689.6	1709.4	1729.2	1760.0	1797.4	1837.0	1883.2	1925.0
25	1311.2	1317.8	1335.4	1357.4	1390.4	1427.8	1474.0	1529.0	1577.4	1634.6
30	985.6	994.4	1014.2	1036.2	1069.2	1106.6	1152.8	1207.8	1271.6	1333.2
35	726.0	732.6	748.0	774.4	800.8	833.8	873.4	928.4	983.4	1045.0
40	534.6	543.4	554.4	572.0	594.0	620.4	655.6	699.6	743.6	803.0
45	398.2	404.8	413.6	426.8	442.2	459.8	490.6	519.2	561.0	605.0
50	303.6	308.0	314.6	323.4	332.2	347.6	367.4	391.6	420.2	455.4
55	237.6	239.8	244.2	250.8	253.0	264.0	275.0	297.0	319.0	343.2
60	187.0	189.2	189.2	189.2	191.4	198.0	209.0	220.0	237.6	257.4
65	143.0	143.0	140.8	140.8	143.0	147.4	156.2	165.0	173.8	187.0
70	99.0	94.6	96.8	99.0	103.4	105.6	110.0	114.4	121.0	132.0
75	66.0	63.8	66.0	68.2	68.2	68.2	68.2	70.4	77.0	81.4
80	33.0	33.0	37.4	37.4	37.4	39.6	41.8	41.8	44.0	44.0
85	11.0	13.2	13.2	11.0	11.0	11.0	11.0	11.0	13.2	15.4
90	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	8.8	8.8
95	48.4	63.8	61.6	66.0	70.4	74.8	77.0	92.4	94.6	101.2
100	204.6	209.0	215.6	226.6	237.6	248.6	261.8	277.2	288.2	299.2
105	457.6	433.4	464.2	479.6	490.6	506.0	521.4	525.8	534.6	528.0
110	851.4	831.6	820.6	833.8	864.6	877.8	877.8	882.2	864.6	816.2
115	1370.6	1370.6	1311.2	1298.0	1287.0	1287.0	1251.8	1205.6	1148.4	1067.0
120	1779.8	1775.4	1749.0	1694.0	1650.0	1597.2	1533.4	1471.8	1364.0	1254.0
125	2074.6	2057.0	2017.4	1975.6	1933.8	1834.8	1755.6	1634.6	1515.8	1386.0
130	2195.6	2178.0	2131.8	2079.0	2013.0	1931.6	1826.0	1709.4	1579.6	1449.8
135	2180.2	2169.2	2131.8	2068.0	2002.0	1922.8	1823.8	1718.2	1599.4	1480.6
140	2096.6	2085.6	2048.2	1997.6	1938.2	1867.8	1782.0	1689.6	1590.6	1491.6
145	1975.6	1964.6	1940.4	1903.0	1848.0	1786.4	1718.2	1643.4	1564.2	1482.8
150	1839.2	1832.6	1817.2	1784.2	1746.8	1698.4	1645.6	1588.4	1529.0	1463.0
155	1707.2	1700.6	1691.8	1669.8	1643.4	1610.4	1570.8	1529.0	1485.0	1441.0
160	1586.2	1581.8	1575.2	1564.2	1546.6	1524.6	1502.6	1471.8	1441.0	1414.6
165	1485.0	1482.8	1478.4	1471.8	1463.0	1452.0	1438.8	1423.4	1408.0	1388.2
170	1410.2	1408.0	1405.8	1403.6	1399.2	1394.8	1390.4	1381.6	1375.0	1368.4
175	1361.8	1361.8	1361.8	1359.6	1359.6	1357.4	1357.4	1355.2	1353.0	1353.0
180	1344.2	1344.2	1344.2	1344.2	1344.2	1344.2	1344.2	1344.2	1344.2	1344.2

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	2512.4	2512.4	2512.4	2512.4	2512.4	2512.4	2512.4	2512.4	2512.4
5	2464.0	2466.2	2470.6	2475.0	2479.4	2483.8	2488.2	2492.6	2499.2
10	2360.6	2378.2	2398.0	2402.4	2406.8	2413.4	2422.2	2431.0	2439.8
15	2200.0	2217.6	2241.8	2268.2	2299.0	2305.6	2312.2	2323.2	2336.4
20	1966.8	2008.6	2057.0	2083.4	2116.4	2153.8	2160.4	2169.2	2184.6
25	1696.2	1751.2	1801.8	1859.0	1894.2	1929.4	1958.0	1966.8	1988.8
30	1399.2	1467.4	1533.4	1586.2	1645.6	1678.6	1720.4	1727.0	1749.0
35	1115.4	1183.6	1251.8	1315.6	1368.4	1412.4	1449.8	1465.2	1480.6
40	858.0	917.4	979.0	1042.8	1097.8	1150.6	1179.2	1196.8	1205.6
45	655.6	706.2	756.8	809.6	860.2	897.6	915.2	928.4	939.4
50	492.8	539.0	583.0	624.8	666.6	695.2	717.2	734.8	745.8
55	374.0	402.6	435.6	468.6	501.6	525.8	543.4	556.6	563.2
60	279.4	299.2	325.6	347.6	369.6	389.4	404.8	411.4	415.8

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CANDELA TABULATION - (Cont.)

65	202.4	220.0	237.6	253.0	268.4	281.6	292.6	299.2	301.4
70	143.0	156.2	167.2	180.4	189.2	198.0	204.6	209.0	211.2
75	90.2	96.8	107.8	116.6	123.2	127.6	136.4	143.0	151.8
80	46.2	50.6	55.0	59.4	63.8	68.2	70.4	70.4	72.6
85	15.4	15.4	17.6	19.8	22.0	22.0	24.2	26.4	26.4
90	8.8	6.6	6.6	6.6	4.4	4.4	4.4	4.4	2.2
95	118.8	116.6	114.4	103.4	88.0	77.0	83.6	85.8	81.4
100	290.4	272.8	261.8	237.6	215.6	204.6	193.6	182.6	184.8
105	508.2	481.8	437.8	398.2	356.4	325.6	305.8	294.8	288.2
110	750.2	684.2	616.0	545.6	488.4	444.4	422.4	407.0	400.4
115	974.6	871.2	763.4	675.4	609.4	561.0	532.4	514.8	508.2
120	1133.0	1007.6	886.6	794.2	721.6	673.2	640.2	622.6	618.2
125	1243.0	1111.0	994.4	895.4	816.2	765.6	737.0	719.4	712.8
130	1315.6	1194.6	1084.6	992.2	917.4	866.8	829.4	807.4	800.8
135	1364.0	1254.0	1155.0	1073.6	1005.4	952.6	917.4	897.6	886.6
140	1390.4	1298.0	1212.2	1139.6	1078.0	1029.6	996.6	976.8	968.0
145	1401.4	1326.6	1256.2	1194.6	1141.8	1102.2	1071.4	1056.0	1045.0
150	1401.4	1342.0	1287.0	1238.6	1194.6	1166.0	1139.6	1126.4	1119.8
155	1392.6	1350.8	1311.2	1271.6	1245.2	1218.8	1201.2	1190.2	1183.6
160	1386.0	1355.2	1326.6	1304.6	1284.8	1265.0	1256.2	1247.4	1240.8
165	1370.6	1355.2	1342.0	1326.6	1313.4	1304.6	1300.2	1293.6	1289.2
170	1359.6	1353.0	1344.2	1339.8	1337.6	1333.2	1328.8	1326.6	1324.4
175	1350.8	1348.6	1348.6	1346.4	1344.2	1344.2	1342.0	1339.8	1339.8
180	1344.2	1344.2	1344.2	1344.2	1344.2	1344.2	1344.2	1344.2	1344.2

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	837.32	N.A.	8.80
0-30	1590.06	N.A.	16.70
0-40	2266.98	N.A.	23.90
0-60	3107.08	N.A.	32.70
0-80	3412.48	N.A.	35.90
0-90	3437.04	N.A.	36.20
10-90	3205.16	N.A.	33.70
20-40	1429.66	N.A.	15.10
20-50	1931.83	N.A.	20.30
40-70	1045.34	N.A.	11.00
60-80	305.40	N.A.	3.20
70-80	100.16	N.A.	1.10
80-90	24.56	N.A.	0.30
90-110	596.51	N.A.	6.30
90-120	1555.64	N.A.	16.40
90-130	2771.82	N.A.	29.20
90-150	4867.61	N.A.	51.30
90-180	6060.1	N.A.	63.80
110-180	5463.59	N.A.	57.50
0-180	9497.15	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	231.88
10-20	605.44
20-30	752.74
30-40	676.92
40-50	502.17
50-60	337.93
60-70	205.24
70-80	100.16
80-90	24.56
90-100	114.52
100-110	481.99
110-120	959.13
120-130	1216.18
130-140	1157.95
140-150	937.84
150-160	668.42
160-170	394.55
170-180	129.52

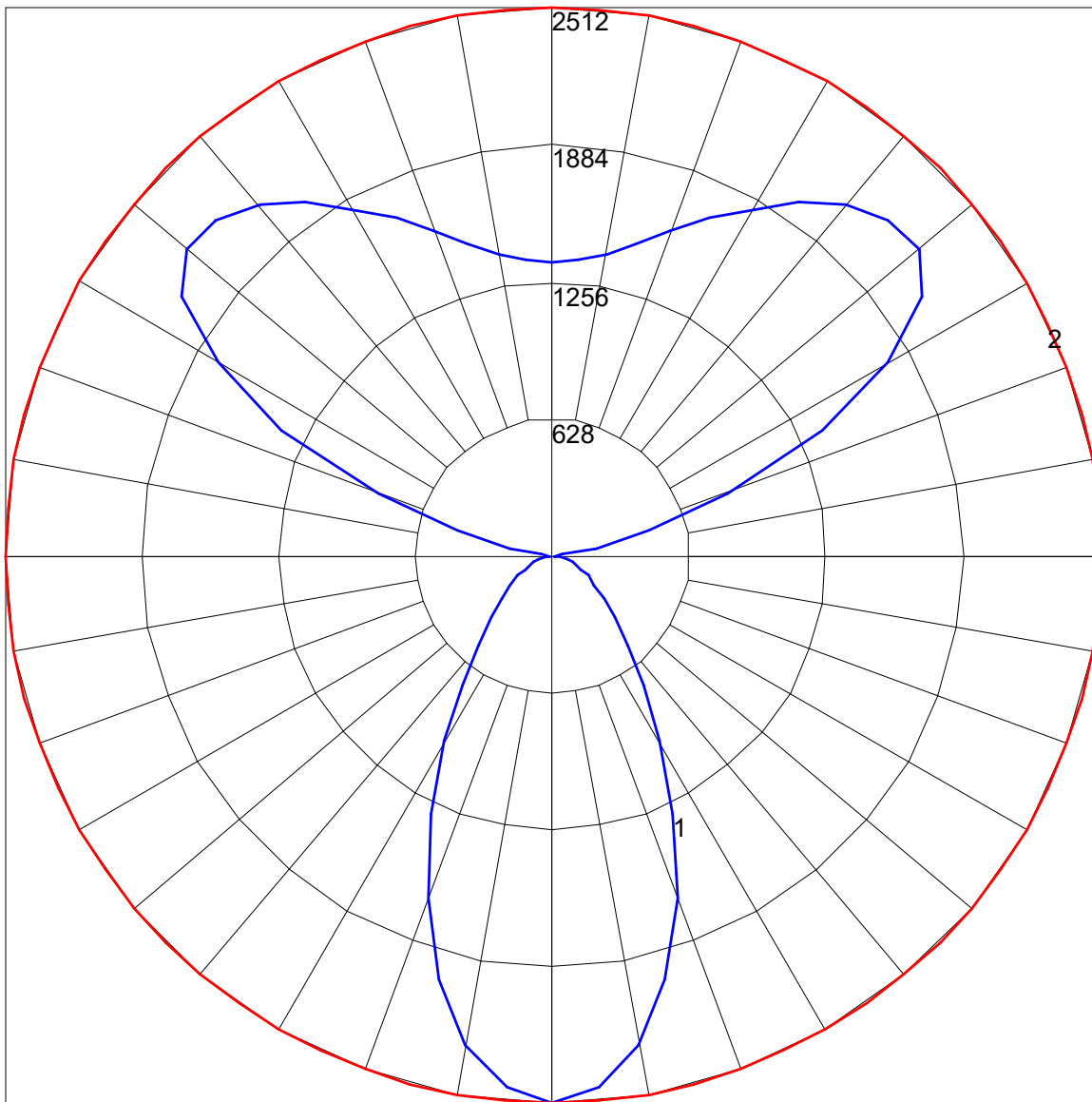
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	43	43	43	36
1	96	92	88	85	86	83	80	78	67	65	64	53	52	51	40	39	38	32
2	88	81	75	71	79	74	69	65	60	57	54	48	45	44	36	35	34	28
3	81	72	65	60	73	66	60	55	54	50	47	43	40	38	33	31	30	25
4	74	64	57	52	67	59	53	48	48	44	41	39	36	33	30	28	26	22
5	68	58	50	45	62	53	47	42	44	39	36	35	32	30	27	25	24	20
6	63	52	45	39	57	48	41	37	40	35	32	32	29	26	25	23	21	18
7	59	47	40	35	53	44	37	33	36	32	28	30	26	24	23	21	19	17
8	55	43	36	31	50	40	34	29	34	29	25	27	24	22	22	20	18	15
9	51	40	33	28	47	37	31	26	31	26	23	25	22	20	20	18	16	14
10	48	37	30	25	44	34	28	24	29	24	21	24	20	18	19	17	15	13

POLAR GRAPH



Maximum Candela = 2512.4 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.)