

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-AL / WH-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	92	95	97	97
Total Lumens, 4' rail length (1219mm)	9434	9731	9930	9930
Lumens per foot (305mm)	2358	2433	2483	2483
Lumens per foot UP (305mm)	1425	1470	1500	1500
Lumens per foot DOWN (305mm)	933	963	982	982
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.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L022010909 (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

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

[MORE] white baffle w/clear lens down, high output

[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	9912
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	96
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	8660	18182	25973
55	6775	10449	21105
65	4921	5874	16689
75	1484	2269	11068
85	612	661	4049

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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	2985.4	2985.4	2985.4	2985.4	2985.4	2985.4	2985.4	2985.4	2985.4	2985.4
5	2965.6	2954.6	2943.6	2932.6	2923.8	2912.8	2904.0	2895.2	2888.6	2882.0
10	2930.4	2908.4	2886.4	2866.6	2846.8	2829.2	2811.6	2774.2	2739.0	2708.2
15	2875.4	2844.6	2813.8	2785.2	2752.2	2690.6	2633.4	2580.6	2530.0	2483.8
20	2787.4	2745.6	2708.2	2662.0	2582.8	2508.0	2435.4	2365.0	2303.4	2239.6
25	2675.2	2626.8	2580.6	2490.4	2395.8	2303.4	2211.0	2127.4	2035.0	1949.2
30	2549.8	2492.6	2422.2	2305.6	2193.4	2083.4	1969.0	1852.4	1742.4	1632.4
35	2362.8	2296.8	2197.8	2072.4	1947.0	1826.0	1702.8	1559.8	1430.0	1302.4
40	1399.2	1361.8	1320.0	1313.4	1353.0	1421.2	1350.8	1214.4	1093.4	965.8
45	387.2	435.6	528.0	607.2	627.0	631.4	770.0	759.0	739.2	693.0
50	334.4	343.2	360.8	380.6	404.8	444.4	475.2	506.0	517.0	512.6
55	301.4	305.8	314.6	327.8	338.8	356.4	371.8	376.2	380.6	385.0
60	270.6	270.6	268.4	264.0	264.0	270.6	272.8	277.2	281.6	286.0
65	211.2	206.8	193.6	189.2	187.0	187.0	189.2	191.4	195.8	202.4
70	123.2	118.8	114.4	114.4	116.6	116.6	116.6	118.8	123.2	129.8
75	59.4	57.2	63.8	61.6	61.6	61.6	61.6	61.6	66.0	70.4
80	37.4	39.6	37.4	37.4	35.2	35.2	33.0	33.0	33.0	33.0
85	22.0	24.2	24.2	24.2	24.2	22.0	22.0	19.8	19.8	17.6
90	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8
95	48.4	61.6	59.4	61.6	63.8	68.2	74.8	92.4	92.4	101.2
100	198.0	206.8	211.2	222.2	235.4	248.6	261.8	279.4	294.8	294.8
105	462.0	431.2	462.0	475.2	486.2	512.6	528.0	541.2	558.8	552.2
110	851.4	829.4	820.6	829.4	873.4	882.2	884.4	891.0	877.8	829.4
115	1366.2	1359.6	1309.0	1289.2	1284.8	1282.6	1256.2	1212.2	1152.8	1075.8
120	1764.4	1753.4	1729.2	1685.2	1650.0	1592.8	1533.4	1467.4	1359.6	1247.4
125	2030.6	2017.4	1991.0	1953.6	1907.4	1819.4	1742.4	1625.8	1509.2	1377.2
130	2153.8	2140.6	2109.8	2059.2	1999.8	1920.6	1819.4	1707.2	1579.6	1445.4
135	2160.4	2149.4	2118.6	2068.0	2004.2	1927.2	1828.2	1724.8	1603.8	1482.8
140	2092.2	2081.2	2052.6	2008.6	1949.2	1878.8	1790.8	1696.2	1595.0	1489.4
145	1977.8	1966.8	1944.8	1907.4	1856.8	1795.2	1727.0	1645.6	1559.8	1474.0
150	1839.2	1830.4	1812.8	1784.2	1744.6	1696.2	1639.0	1577.4	1513.6	1441.0
155	1696.2	1689.6	1676.4	1654.4	1628.0	1590.6	1548.8	1504.8	1456.4	1408.0
160	1559.8	1557.6	1548.8	1535.6	1515.8	1493.8	1467.4	1436.6	1403.6	1372.8
165	1447.6	1445.4	1441.0	1434.4	1423.4	1410.2	1394.8	1379.4	1361.8	1339.8
170	1364.0	1364.0	1361.8	1357.4	1353.0	1348.6	1344.2	1337.6	1328.8	1320.0
175	1315.6	1315.6	1313.4	1313.4	1311.2	1311.2	1309.0	1309.0	1306.8	1304.6
180	1298.0	1298.0	1298.0	1298.0	1298.0	1298.0	1298.0	1298.0	1298.0	1298.0

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	2985.4	2985.4	2985.4	2985.4	2985.4	2985.4	2985.4	2985.4	2985.4
5	2875.4	2868.8	2864.4	2862.2	2857.8	2857.8	2855.6	2855.6	2857.8
10	2679.6	2655.4	2633.4	2613.6	2598.2	2585.0	2576.2	2571.8	2574.0
15	2437.6	2398.0	2360.6	2332.0	2310.0	2290.2	2279.2	2272.6	2274.8
20	2175.8	2112.0	2059.2	2010.8	1973.4	1944.8	1925.0	1911.8	1914.0
25	1872.2	1795.2	1722.6	1663.2	1612.6	1575.2	1548.8	1526.8	1526.8
30	1533.4	1445.4	1364.0	1291.4	1232.0	1181.4	1144.0	1122.0	1119.8
35	1183.6	1080.2	1003.2	941.6	893.2	860.2	836.0	818.4	811.8
40	873.4	781.0	734.8	715.0	701.8	693.0	684.2	675.4	673.2
45	660.0	635.8	616.0	598.4	585.2	576.4	567.6	561.0	558.8
50	514.8	506.0	495.0	486.2	477.4	468.6	464.2	459.8	457.6
55	389.4	387.2	389.4	387.2	382.8	378.4	374.0	371.8	371.8
60	290.4	292.6	294.8	297.0	297.0	294.8	292.6	290.4	290.4

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CANDELA TABULATION - (Cont.)

65	206.8	211.2	215.6	217.8	217.8	220.0	217.8	217.8	220.0
70	134.2	143.0	149.6	147.4	149.6	154.0	154.0	158.4	167.2
75	74.8	79.2	85.8	88.0	88.0	92.4	92.4	92.4	92.4
80	33.0	35.2	37.4	39.6	41.8	41.8	44.0	44.0	44.0
85	17.6	17.6	15.4	15.4	13.2	13.2	13.2	13.2	13.2
90	6.6	6.6	6.6	4.4	4.4	4.4	4.4	4.4	2.2
95	101.2	110.0	110.0	94.6	83.6	83.6	85.8	81.4	81.4
100	292.6	288.2	268.4	239.8	222.2	204.6	187.0	182.6	180.4
105	536.8	501.6	455.4	398.2	352.0	319.0	294.8	283.8	281.6
110	759.0	690.8	613.8	534.6	475.2	435.6	407.0	391.6	391.6
115	974.6	860.2	752.4	664.4	596.2	547.8	514.8	497.2	495.0
120	1124.2	994.4	877.8	778.8	704.0	653.4	622.6	600.6	591.8
125	1234.2	1102.2	983.4	877.8	798.6	748.0	717.2	695.2	684.2
130	1313.4	1185.8	1073.6	974.6	893.2	840.4	798.6	770.0	752.4
135	1359.6	1245.2	1141.8	1051.6	976.8	921.8	886.6	864.6	853.6
140	1383.8	1282.6	1192.4	1111.0	1047.2	996.6	961.4	941.6	930.6
145	1386.0	1304.6	1229.8	1161.6	1106.6	1062.6	1031.8	1014.2	1005.4
150	1375.0	1313.4	1251.8	1201.2	1152.8	1122.0	1095.6	1082.4	1075.8
155	1359.6	1313.4	1269.4	1227.6	1199.0	1172.6	1152.8	1144.0	1135.2
160	1342.0	1309.0	1278.2	1256.2	1234.2	1212.2	1205.6	1196.8	1192.4
165	1320.0	1304.6	1289.2	1273.8	1258.4	1251.8	1247.4	1240.8	1236.4
170	1311.2	1300.2	1291.4	1287.0	1284.8	1280.4	1276.0	1273.8	1271.6
175	1304.6	1302.4	1300.2	1300.2	1298.0	1295.8	1295.8	1293.6	1291.4
180	1298.0	1298.0	1298.0	1298.0	1298.0	1298.0	1298.0	1298.0	1298.0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	977.77	N.A.	9.90
0-30	1898.21	N.A.	19.20
0-40	2765.69	N.A.	27.90
0-60	3611.86	N.A.	36.40
0-80	3900.06	N.A.	39.30
0-90	3922.3	N.A.	39.60
10-90	3651.15	N.A.	36.80
20-40	1787.92	N.A.	18.00
20-50	2306.25	N.A.	23.30
40-70	1050.22	N.A.	10.60
60-80	288.20	N.A.	2.90
70-80	84.15	N.A.	0.80
80-90	22.24	N.A.	0.20
90-110	597.34	N.A.	6.00
90-120	1550.51	N.A.	15.60
90-130	2751.87	N.A.	27.80
90-150	4828.73	N.A.	48.70
90-180	5989.77	N.A.	60.40
110-180	5392.42	N.A.	54.40
0-180	9912.06	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	271.15
10-20	706.62
20-30	920.44
30-40	867.48
40-50	518.33
50-60	327.84
60-70	204.05
70-80	84.15
80-90	22.24
90-100	112.46
100-110	484.89
110-120	953.17
120-130	1201.36
130-140	1148.11
140-150	928.76
150-160	654.32
160-170	381.74
170-180	124.97

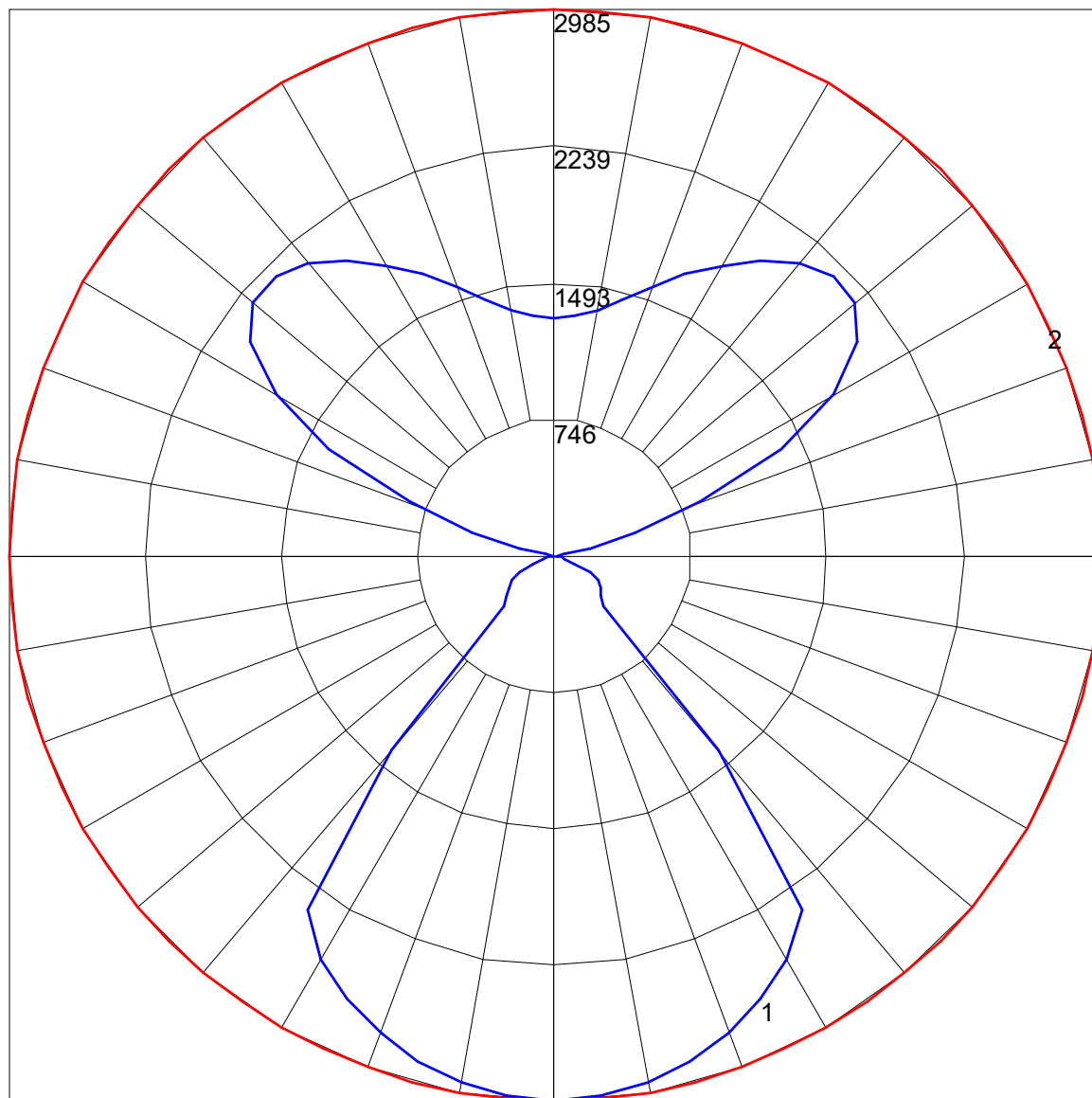
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	105	105	105	105	95	95	95	95	78	78	78	61	61	61	47	47	47	40
1	96	93	89	86	88	85	82	79	69	67	66	56	54	53	43	42	41	35
2	89	82	77	72	81	75	71	67	62	59	56	50	48	46	39	38	37	32
3	82	73	67	62	74	67	62	57	56	52	49	45	43	40	36	34	33	28
4	75	66	59	53	69	60	54	50	51	46	43	41	38	36	33	31	29	25
5	70	59	52	46	64	55	48	43	46	41	38	38	34	32	30	28	26	23
6	65	54	46	41	59	50	43	38	42	37	33	35	31	29	28	26	24	21
7	60	49	41	36	55	45	39	34	38	33	30	32	28	26	26	23	22	19
8	56	45	37	33	51	41	35	31	35	30	27	29	26	23	24	22	20	17
9	52	41	34	29	48	38	32	28	33	28	25	27	24	21	22	20	18	16
10	49	38	31	27	45	35	29	25	30	26	22	26	22	20	21	19	17	15

POLAR GRAPH



Maximum Candela = 2985.4 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.)