

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-BL-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	70	72	73	73
Total Lumens, 4' rail length (1219mm)	7130	7355	7505	7505
Lumens per foot (305mm)	1782	1839	1876	1876
Lumens per foot UP (305mm)	1310	1351	1379	1379
Lumens per foot DOWN (305mm)	473	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_BL.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L022010915 (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-BL

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

[MORE] black 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	7491
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	73
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	935	3175	2454
55	643	716	1124
65	461	255	501
75	220	213	527
85	306	248	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	2354.0	2354.0	2354.0	2354.0	2354.0	2354.0	2354.0	2354.0	2354.0	2354.0
5	2343.0	2327.6	2312.2	2299.0	2283.6	2268.2	2255.0	2241.8	2230.8	2219.8
10	2316.6	2285.8	2255.0	2226.4	2197.8	2169.2	2145.0	2101.0	2059.2	2021.8
15	2270.4	2222.0	2178.0	2136.2	2087.8	2017.4	1949.2	1887.6	1830.4	1775.4
20	2206.6	2145.0	2087.8	2021.8	1927.2	1834.8	1744.6	1656.6	1575.2	1500.4
25	2123.0	2052.6	1984.4	1872.2	1757.8	1641.2	1526.8	1416.8	1315.6	1223.2
30	2017.4	1931.6	1837.0	1698.4	1562.0	1427.8	1298.0	1172.6	1049.4	924.0
35	1892.0	1799.6	1669.8	1511.4	1348.6	1192.4	1049.4	895.4	745.8	607.2
40	1212.2	1137.4	1034.0	937.2	880.0	858.0	754.6	594.0	446.6	314.6
45	41.8	85.8	182.6	250.8	266.2	228.8	281.6	266.2	191.4	121.0
50	33.0	33.0	30.8	30.8	28.6	41.8	41.8	50.6	57.2	59.4
55	28.6	28.6	26.4	24.2	19.8	19.8	17.6	19.8	22.0	26.4
60	26.4	24.2	22.0	19.8	17.6	15.4	13.2	11.0	11.0	13.2
65	19.8	19.8	17.6	15.4	13.2	13.2	11.0	8.8	8.8	8.8
70	13.2	13.2	13.2	13.2	11.0	11.0	8.8	8.8	6.6	6.6
75	8.8	8.8	11.0	8.8	8.8	8.8	8.8	6.6	6.6	6.6
80	11.0	11.0	11.0	11.0	8.8	8.8	8.8	6.6	6.6	4.4
85	11.0	11.0	11.0	11.0	11.0	11.0	8.8	8.8	8.8	6.6
90	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8
95	17.6	30.8	26.4	28.6	33.0	41.8	48.4	79.2	90.2	103.4
100	121.0	132.0	140.8	156.2	180.4	211.2	248.6	294.8	334.4	356.4
105	347.6	343.2	378.4	411.4	448.8	517.0	583.0	624.8	693.0	688.6
110	838.2	849.2	893.2	899.8	1034.0	1106.6	1194.6	1251.8	1183.6	1009.8
115	1812.8	1801.8	1751.2	1777.6	1782.0	1837.0	1729.2	1590.6	1383.8	1113.2
120	2523.4	2492.6	2409.0	2301.2	2235.2	2048.2	1867.8	1628.0	1370.6	1130.8
125	2516.8	2492.6	2424.4	2314.4	2171.4	1982.2	1773.2	1562.0	1348.6	1152.8
130	2244.0	2226.4	2173.6	2087.8	1966.8	1823.8	1667.6	1500.4	1339.8	1190.2
135	2013.0	1999.8	1960.2	1894.2	1806.2	1694.0	1581.8	1456.4	1335.4	1216.6
140	1841.4	1828.2	1797.4	1749.0	1685.2	1606.0	1515.8	1421.2	1322.2	1223.2
145	1696.2	1687.4	1661.0	1623.6	1570.8	1509.2	1438.8	1357.4	1276.0	1192.4
150	1535.6	1529.0	1511.4	1478.4	1436.6	1388.2	1331.0	1267.2	1201.2	1133.0
155	1357.4	1350.8	1339.8	1317.8	1289.2	1254.0	1210.0	1161.6	1117.6	1071.4
160	1196.8	1192.4	1185.8	1172.6	1155.0	1133.0	1108.8	1078.0	1045.0	1018.6
165	1075.8	1073.6	1069.2	1064.8	1056.0	1045.0	1031.8	1016.4	1001.0	981.2
170	998.8	998.8	996.6	994.4	990.0	985.6	981.2	974.6	968.0	959.2
175	954.8	954.8	952.6	952.6	952.6	950.4	950.4	948.2	948.2	946.0
180	939.4	939.4	939.4	939.4	939.4	939.4	939.4	939.4	939.4	939.4

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	2354.0	2354.0	2354.0	2354.0	2354.0	2354.0	2354.0	2354.0	2354.0
5	2208.8	2200.0	2191.2	2184.6	2180.2	2175.8	2171.4	2171.4	2171.4
10	1986.6	1955.8	1929.4	1905.2	1883.2	1867.8	1854.6	1845.8	1845.8
15	1722.6	1672.0	1630.2	1592.8	1562.0	1537.8	1518.0	1507.0	1504.8
20	1432.2	1372.8	1320.0	1269.4	1229.8	1201.2	1172.6	1152.8	1148.4
25	1137.4	1053.8	976.8	910.8	855.8	811.8	781.0	756.8	754.6
30	807.4	706.2	616.0	541.2	481.8	431.2	396.0	369.6	367.4
35	479.6	363.0	303.6	257.4	209.0	173.8	154.0	147.4	151.8
40	235.4	169.4	138.6	121.0	103.4	90.2	85.8	81.4	79.2
45	107.8	90.2	79.2	70.4	63.8	59.4	55.0	52.8	52.8
50	61.6	55.0	50.6	46.2	41.8	37.4	35.2	33.0	33.0
55	30.8	30.8	28.6	26.4	24.2	22.0	19.8	19.8	19.8
60	13.2	15.4	15.4	15.4	13.2	13.2	11.0	11.0	11.0

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CANDELA TABULATION - (Cont.)

65	6.6	8.8	8.8	8.8	8.8	6.6	6.6	6.6	6.6
70	6.6	6.6	4.4	4.4	4.4	4.4	4.4	4.4	4.4
75	4.4	4.4	4.4	4.4	4.4	4.4	2.2	2.2	4.4
80	4.4	4.4	4.4	2.2	2.2	2.2	2.2	2.2	2.2
85	6.6	6.6	4.4	4.4	2.2	2.2	2.2	2.2	2.2
90	6.6	6.6	6.6	4.4	4.4	4.4	2.2	2.2	4.4
95	127.6	116.6	90.2	72.6	55.0	52.8	63.8	63.8	61.6
100	347.6	292.6	233.2	182.6	162.8	158.4	160.6	167.2	165.0
105	618.2	484.0	363.0	283.8	250.8	244.2	246.4	253.0	255.2
110	798.6	596.2	459.8	380.6	347.6	345.4	354.2	365.2	371.8
115	869.0	679.8	554.4	484.0	453.2	448.8	462.0	473.0	481.8
120	921.8	756.8	646.8	589.6	561.0	554.4	561.0	574.2	583.0
125	990.0	853.6	754.6	695.2	660.0	644.6	642.4	649.0	653.4
130	1051.6	937.2	851.4	789.8	745.8	715.0	699.6	693.0	690.8
135	1104.4	1007.6	924.0	858.0	807.4	765.6	734.8	715.0	704.0
140	1126.4	1040.6	959.2	891.0	833.8	785.4	752.4	730.4	717.2
145	1111.0	1034.0	961.4	897.6	844.8	803.0	767.8	750.2	739.2
150	1067.0	1005.4	946.0	899.8	853.6	822.8	794.2	781.0	772.2
155	1020.8	976.8	939.4	899.8	871.2	847.0	829.4	820.6	811.8
160	990.0	961.4	932.8	913.0	893.2	873.4	866.8	860.2	853.6
165	965.8	950.4	937.2	924.0	908.6	904.2	897.6	893.2	888.8
170	952.6	943.8	937.2	932.8	928.4	926.2	921.8	919.6	917.4
175	946.0	943.8	941.6	941.6	939.4	939.4	937.2	935.0	935.0
180	939.4	939.4	939.4	939.4	939.4	939.4	939.4	939.4	939.4

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	716.20	N.A.	9.60
0-30	1313.21	N.A.	17.50
0-40	1787.12	N.A.	23.90
0-60	1961.81	N.A.	26.20
0-80	1979.71	N.A.	26.40
0-90	1987.01	N.A.	26.50
10-90	1779.26	N.A.	23.80
20-40	1070.92	N.A.	14.30
20-50	1222.07	N.A.	16.30
40-70	185.65	N.A.	2.50
60-80	17.90	N.A.	0.20
70-80	6.94	N.A.	0.10
80-90	7.30	N.A.	0.10
90-110	579.90	N.A.	7.70
90-120	1659.91	N.A.	22.20
90-130	2875.19	N.A.	38.40
90-150	4631.48	N.A.	61.80
90-180	5504.27	N.A.	73.50
110-180	4924.37	N.A.	65.70
0-180	7491.28	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	207.76
10-20	508.44
20-30	597.01
30-40	473.91
40-50	151.15
50-60	23.54
60-70	10.96
70-80	6.94
80-90	7.30
90-100	96.06
100-110	483.84
110-120	1080.01
120-130	1215.28
130-140	1000.05
140-150	756.25
150-160	501.53
160-170	280.57
170-180	90.69

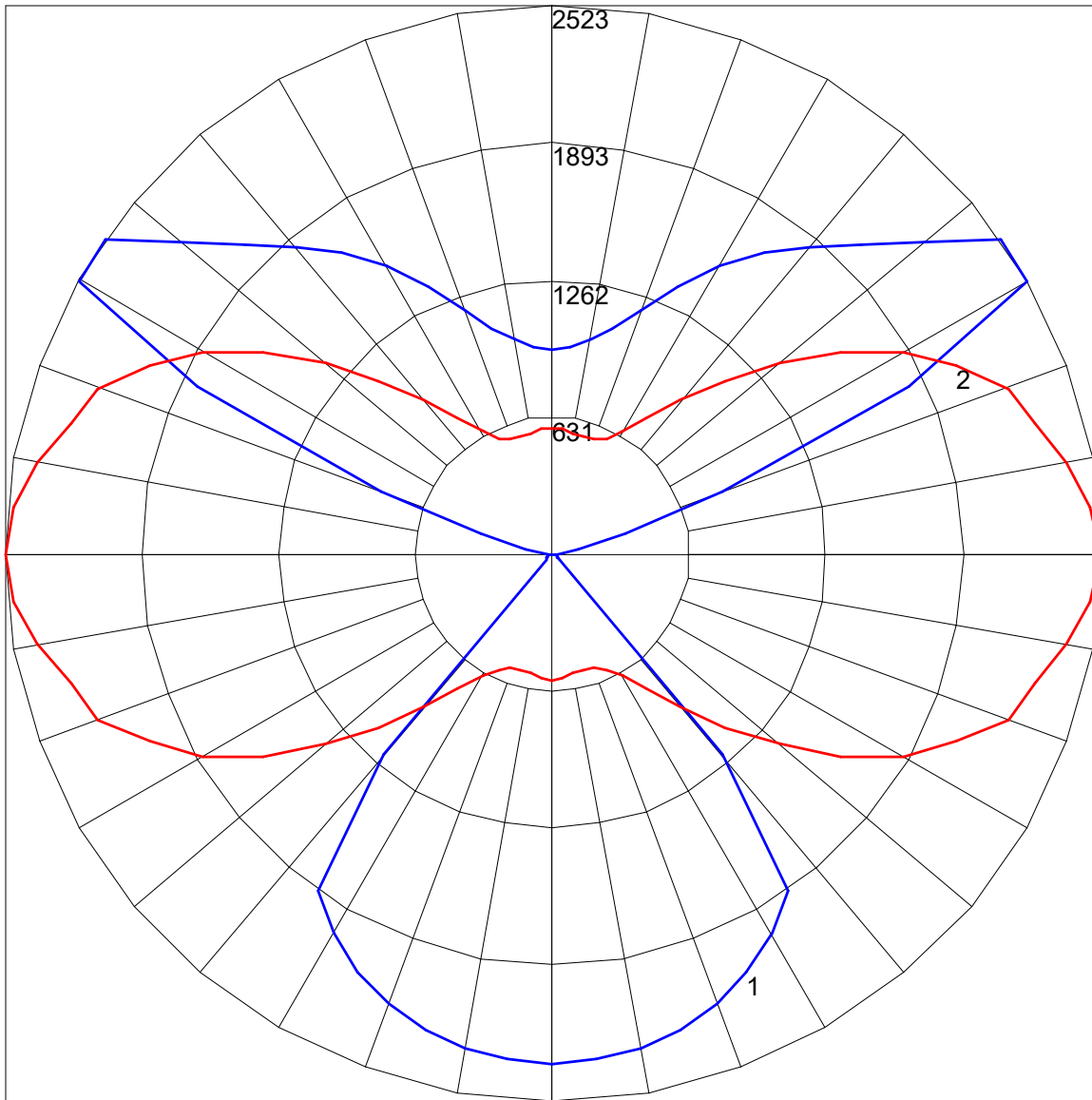
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	91	91	91	91	70	70	70	52	52	52	35	35	35	27
1	94	90	87	84	84	81	78	75	63	61	60	47	46	45	32	32	31	25
2	86	80	75	70	77	72	68	64	57	54	52	43	41	40	30	29	28	23
3	80	72	65	60	71	65	59	55	51	48	45	39	37	35	28	27	26	21
4	74	64	58	52	66	58	53	48	47	43	40	36	34	32	26	25	24	20
5	68	58	51	46	61	53	47	42	43	38	35	33	31	28	24	23	22	18
6	63	53	46	41	57	48	42	38	39	35	32	31	28	26	23	21	20	17
7	59	48	41	36	53	44	38	34	36	32	29	28	26	24	21	20	19	16
8	55	44	37	33	49	40	34	30	33	29	26	26	24	22	20	18	17	15
9	51	41	34	29	46	37	31	27	31	27	24	25	22	20	19	17	16	14
10	48	37	31	27	44	34	29	25	29	24	22	23	20	18	18	16	15	13

POLAR GRAPH



Maximum Candela = 2523.4 Located At Horizontal Angle = 0, Vertical Angle = 120
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Horizontal Cone Through Vertical Angle (120) (Through Max. Cd.)