

IES Report

BoxRail® | 207 | Wide Batwing, up | 40° Symmetric, down | 90 CRI | HO

207-BX-XX-4-48-XX-XX-XX-XX-X-X-Z-HO-359-G1S1-X-AL / WH-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	70	72	73	74
Total Lumens, 4' rail length (1219mm)	7131	7356	7506	7581
Lumens per foot (305mm)	1783	1839	1877	1895
Lumens per foot UP (305mm)	1240	1280	1306	1319
Lumens per foot DOWN (305mm)	542	559	571	577
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	94	94	94	94

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_359_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-359-G1S1

[LUMINAIRE] BoxRail LED, 48", 3500K, 90 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	7506
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	4972	8923	32852
55	3246	5414	22434
65	2125	3308	15998
75	1139	1654	10924
85	317	428	5827

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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	1926.6	1926.6	1926.6	1926.6	1926.6	1926.6	1926.6	1926.6	1926.6	1926.6
5	1854.4	1852.5	1852.5	1852.5	1854.4	1854.4	1856.3	1860.1	1862.0	1865.8
10	1649.2	1647.3	1651.1	1656.8	1666.3	1677.7	1692.9	1704.3	1719.5	1738.5
15	1350.9	1350.9	1360.4	1375.6	1394.6	1415.5	1442.1	1474.4	1512.4	1552.3
20	1031.7	1031.7	1046.9	1067.8	1092.5	1124.8	1164.7	1208.4	1257.8	1309.1
25	748.6	752.4	765.7	786.6	813.2	849.3	889.2	934.8	991.8	1056.4
30	535.8	539.6	551.0	568.1	592.8	621.3	653.6	699.2	758.1	815.1
35	385.7	387.6	397.1	412.3	431.3	454.1	478.8	520.6	564.3	615.6
40	286.9	288.8	296.4	305.9	319.2	332.5	357.2	385.7	416.1	459.8
45	222.3	224.2	228.0	235.6	243.2	252.7	269.8	286.9	313.5	340.1
50	178.6	178.6	182.4	186.2	190.0	197.6	207.1	220.4	237.5	260.3
55	144.4	146.3	146.3	150.1	152.0	155.8	161.5	172.9	184.3	199.5
60	117.8	117.8	117.8	117.8	117.8	121.6	127.3	133.0	140.6	152.0
65	91.2	93.1	91.2	89.3	91.2	93.1	96.9	100.7	106.4	114.0
70	66.5	62.7	64.6	66.5	66.5	68.4	72.2	74.1	77.9	81.7
75	45.6	43.7	45.6	45.6	43.7	45.6	45.6	45.6	49.4	51.3
80	28.5	26.6	28.5	28.5	28.5	28.5	28.5	28.5	28.5	28.5
85	11.4	11.4	11.4	11.4	9.5	11.4	9.5	9.5	11.4	11.4
90	11.4	11.4	9.5	9.5	9.5	9.5	9.5	9.5	7.6	7.6
95	41.8	57.0	57.0	58.9	62.7	64.6	68.4	81.7	83.6	89.3
100	176.7	178.6	184.3	191.9	201.4	210.9	224.2	237.5	245.1	254.6
105	387.6	357.2	383.8	397.1	406.6	421.8	433.2	444.6	448.4	446.5
110	701.1	682.1	668.8	670.7	708.7	725.8	731.5	739.1	712.5	691.6
115	1149.5	1138.1	1086.8	1081.1	1071.6	1081.1	1058.3	1027.9	982.3	915.8
120	1497.2	1491.5	1470.6	1425.0	1392.7	1350.9	1305.3	1254.0	1174.2	1083.0
125	1742.3	1730.9	1708.1	1677.7	1647.3	1567.5	1506.7	1411.7	1314.8	1202.7
130	1867.7	1856.3	1827.8	1786.0	1736.6	1668.2	1582.7	1487.7	1377.5	1263.5
135	1875.3	1865.8	1839.2	1795.5	1742.3	1677.7	1592.2	1502.9	1400.3	1297.7
140	1816.4	1806.9	1784.1	1746.1	1696.7	1635.9	1561.8	1482.0	1394.6	1307.2
145	1721.4	1713.8	1694.8	1662.5	1620.7	1567.5	1508.6	1440.2	1369.9	1295.8
150	1607.4	1599.8	1586.5	1561.8	1527.6	1487.7	1440.2	1388.9	1333.8	1276.8
155	1489.6	1483.9	1474.4	1457.3	1432.6	1404.1	1369.9	1331.9	1292.0	1252.1
160	1381.3	1379.4	1371.8	1362.3	1345.2	1326.2	1305.3	1278.7	1250.2	1225.5
165	1292.0	1290.1	1284.4	1278.7	1271.1	1259.7	1246.4	1233.1	1217.9	1200.8
170	1223.6	1221.7	1219.8	1216.0	1212.2	1208.4	1204.6	1197.0	1191.3	1183.7
175	1179.9	1179.9	1179.9	1178.0	1176.1	1176.1	1174.2	1174.2	1172.3	1170.4
180	1164.7	1164.7	1164.7	1164.7	1164.7	1164.7	1164.7	1164.7	1164.7	1164.7

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	1926.6	1926.6	1926.6	1926.6	1926.6	1926.6	1926.6	1926.6	1926.6
5	1869.6	1873.4	1879.1	1882.9	1888.6	1894.3	1900.0	1905.7	1911.4
10	1759.4	1782.2	1806.9	1814.5	1822.1	1831.6	1843.0	1854.4	1867.7
15	1588.4	1618.8	1651.1	1687.2	1729.0	1742.3	1755.6	1770.8	1789.8
20	1364.2	1419.3	1478.2	1520.0	1565.6	1618.8	1634.0	1651.1	1673.9
25	1124.8	1191.3	1257.8	1328.1	1381.3	1434.5	1474.4	1491.5	1516.2
30	883.5	959.5	1031.7	1105.8	1179.9	1231.2	1288.2	1303.4	1328.1
35	674.5	737.2	813.2	885.4	957.6	1018.4	1071.6	1096.3	1115.3
40	507.3	566.2	625.1	687.8	748.6	801.8	851.2	881.6	898.7
45	381.9	425.6	475.0	528.2	581.4	628.9	668.8	693.5	706.8
50	286.9	319.2	357.2	397.1	438.9	475.0	505.4	526.3	533.9
55	218.5	241.3	266.0	296.4	326.8	353.4	376.2	391.4	395.2
60	165.3	180.5	199.5	220.4	241.3	260.3	279.3	288.8	292.6

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CANDELA TABULATION - (Cont.)

65	123.5	134.9	148.2	161.5	174.8	188.1	197.6	205.2	210.9
70	87.4	96.9	104.5	114.0	123.5	136.8	142.5	142.5	146.3
75	57.0	60.8	68.4	72.2	79.8	85.5	87.4	91.2	91.2
80	30.4	32.3	36.1	38.0	41.8	45.6	47.5	49.4	49.4
85	11.4	11.4	13.3	13.3	15.2	15.2	15.2	17.1	19.0
90	7.6	5.7	5.7	3.8	3.8	3.8	3.8	3.8	3.8
95	96.9	104.5	102.6	96.9	76.0	70.3	70.3	72.2	72.2
100	247.0	241.3	229.9	205.2	186.2	176.7	165.3	157.7	155.8
105	435.1	416.1	381.9	342.0	307.8	283.1	262.2	250.8	250.8
110	651.7	590.9	530.1	471.2	421.8	385.7	362.9	349.6	345.8
115	836.0	742.9	659.3	585.2	526.3	486.4	457.9	444.6	438.9
120	984.2	875.9	775.2	685.9	623.2	581.4	552.9	533.9	530.1
125	1083.0	970.9	870.2	779.0	716.3	668.8	636.5	621.3	615.6
130	1151.4	1045.0	950.0	866.4	798.0	752.4	720.1	697.3	689.7
135	1193.2	1098.2	1008.9	934.8	872.1	826.5	794.2	773.3	765.7
140	1216.0	1134.3	1058.3	989.9	934.8	891.1	862.6	843.6	834.1
145	1223.6	1155.2	1092.5	1035.5	989.9	951.9	925.3	910.1	900.6
150	1221.7	1168.5	1117.2	1073.5	1031.7	1005.1	980.4	970.9	963.3
155	1210.3	1172.3	1134.3	1100.1	1073.5	1050.7	1033.6	1026.0	1018.4
160	1198.9	1172.3	1143.8	1124.8	1107.7	1088.7	1081.1	1073.5	1069.7
165	1183.7	1170.4	1157.1	1143.8	1130.5	1124.8	1119.1	1113.4	1109.6
170	1176.1	1166.6	1159.0	1155.2	1151.4	1149.5	1145.7	1141.9	1140.0
175	1170.4	1168.5	1166.6	1166.6	1164.7	1162.8	1160.9	1160.9	1159.0
180	1164.7	1164.7	1164.7	1164.7	1164.7	1164.7	1164.7	1164.7	1164.7

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	608.25	N.A.	8.10
0-30	1110.75	N.A.	14.80
0-40	1540.71	N.A.	20.50
0-60	2067.94	N.A.	27.50
0-80	2265.42	N.A.	30.20
0-90	2283.46	N.A.	30.40
10-90	2108.65	N.A.	28.10
20-40	932.46	N.A.	12.40
20-50	1247.18	N.A.	16.60
40-70	659.11	N.A.	8.80
60-80	197.49	N.A.	2.60
70-80	65.60	N.A.	0.90
80-90	18.04	N.A.	0.20
90-110	506.64	N.A.	6.70
90-120	1319.77	N.A.	17.60
90-130	2364.88	N.A.	31.50
90-150	4188.71	N.A.	55.80
90-180	5222.85	N.A.	69.60
110-180	4716.21	N.A.	62.80
0-180	7506.31	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	174.81
10-20	433.44
20-30	502.50
30-40	429.95
40-50	314.72
50-60	212.51
60-70	131.89
70-80	65.60
80-90	18.04
90-100	99.40
100-110	407.24
110-120	813.14
120-130	1045.11
130-140	1006.26
140-150	817.57
150-160	580.62
160-170	341.43
170-180	112.09

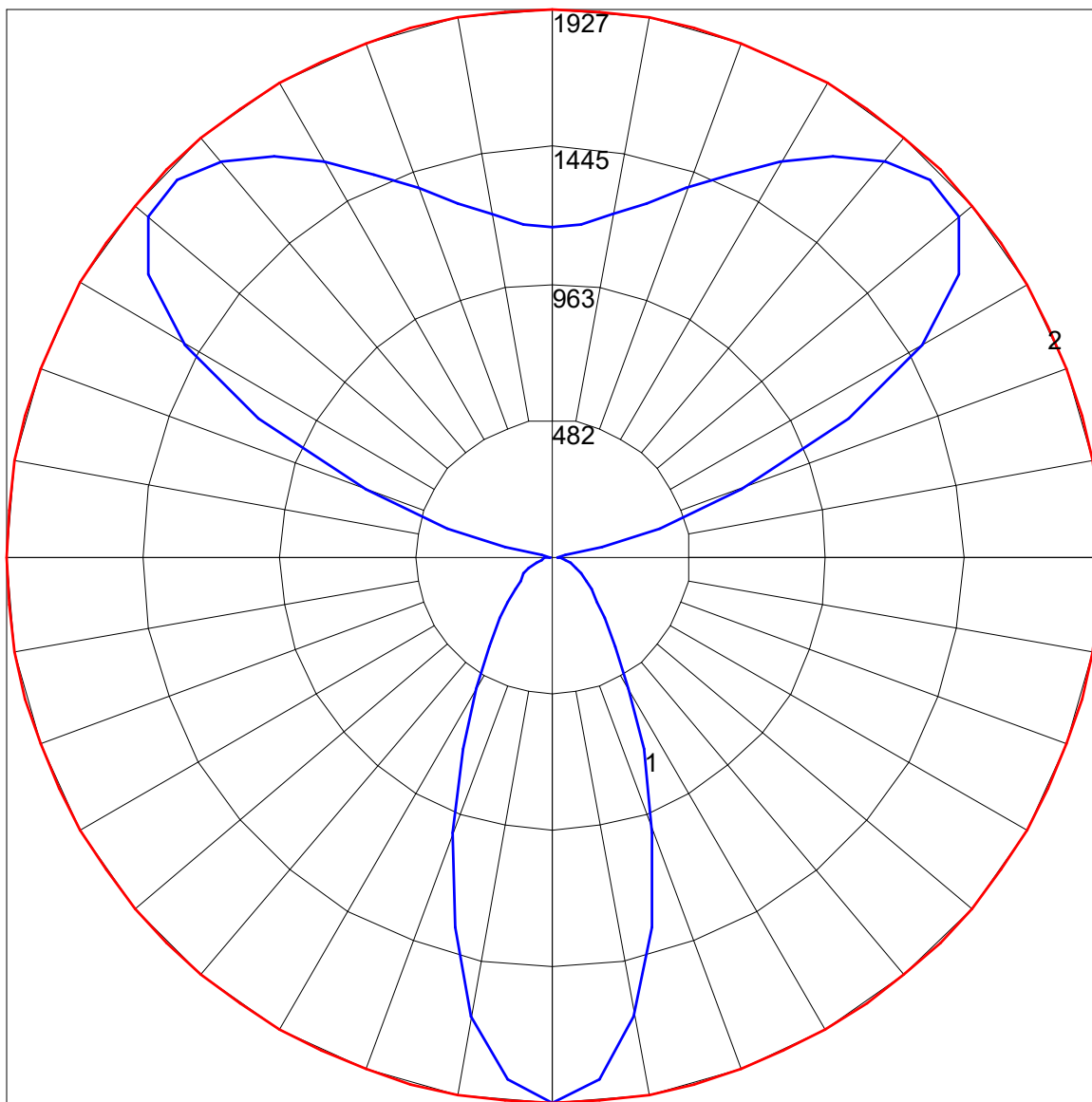
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 1926.6 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.)