

IES Report

BoxRail[®] | 207 | Wide Batwing, up | White Baffle, down | 90 CRI | HO

207-BX-XX-4-48-XX-XX-XX-XX-X-X-Z-HO-359-G1WB-X-AL / WH-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	79	82	84	84
Total Lumens, 4' rail length (1219mm)	8132	8389	8560	8646
Lumens per foot (305mm)	2033	2097	2140	2162
Lumens per foot UP (305mm)	1229	1267	1293	1306
Lumens per foot DOWN (305mm)	805	830	847	855
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_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-359-G1WB

[LUMINAIRE] BoxRail LED, 48", 3500K, 90 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	8560
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	83
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	7479	15703	22431
55	5851	9024	18227
65	4250	5073	14413
75	1281	1960	9559
85	529	570	3496

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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	2578.3	2578.3	2578.3	2578.3	2578.3	2578.3	2578.3	2578.3	2578.3	2578.3
5	2561.2	2551.7	2542.2	2532.7	2525.1	2515.6	2508.0	2500.4	2494.7	2489.0
10	2530.8	2511.8	2492.8	2475.7	2458.6	2443.4	2428.2	2395.9	2365.5	2338.9
15	2483.3	2456.7	2430.1	2405.4	2376.9	2323.7	2274.3	2228.7	2185.0	2145.1
20	2407.3	2371.2	2338.9	2299.0	2230.6	2166.0	2103.3	2042.5	1989.3	1934.2
25	2310.4	2268.6	2228.7	2150.8	2069.1	1989.3	1909.5	1837.3	1757.5	1683.4
30	2202.1	2152.7	2091.9	1991.2	1894.3	1799.3	1700.5	1599.8	1504.8	1409.8
35	2040.6	1983.6	1898.1	1789.8	1681.5	1577.0	1470.6	1347.1	1235.0	1124.8
40	1208.4	1176.1	1140.0	1134.3	1168.5	1227.4	1166.6	1048.8	944.3	834.1
45	334.4	376.2	456.0	524.4	541.5	545.3	665.0	655.5	638.4	598.5
50	288.8	296.4	311.6	328.7	349.6	383.8	410.4	437.0	446.5	442.7
55	260.3	264.1	271.7	283.1	292.6	307.8	321.1	324.9	328.7	332.5
60	233.7	233.7	231.8	228.0	228.0	233.7	235.6	239.4	243.2	247.0
65	182.4	178.6	167.2	163.4	161.5	161.5	163.4	165.3	169.1	174.8
70	106.4	102.6	98.8	98.8	100.7	100.7	100.7	102.6	106.4	112.1
75	51.3	49.4	55.1	53.2	53.2	53.2	53.2	53.2	57.0	60.8
80	32.3	34.2	32.3	32.3	30.4	30.4	28.5	28.5	28.5	28.5
85	19.0	20.9	20.9	20.9	20.9	19.0	19.0	17.1	17.1	15.2
90	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6
95	41.8	53.2	51.3	53.2	55.1	58.9	64.6	79.8	79.8	87.4
100	171.0	178.6	182.4	191.9	203.3	214.7	226.1	241.3	254.6	254.6
105	399.0	372.4	399.0	410.4	419.9	442.7	456.0	467.4	482.6	476.9
110	735.3	716.3	708.7	716.3	754.3	761.9	763.8	769.5	758.1	716.3
115	1179.9	1174.2	1130.5	1113.4	1109.6	1107.7	1084.9	1046.9	995.6	929.1
120	1523.8	1514.3	1493.4	1455.4	1425.0	1375.6	1324.3	1267.3	1174.2	1077.3
125	1753.7	1742.3	1719.5	1687.2	1647.3	1571.3	1504.8	1404.1	1303.4	1189.4
130	1860.1	1848.7	1822.1	1778.4	1727.1	1658.7	1571.3	1474.4	1364.2	1248.3
135	1865.8	1856.3	1829.7	1786.0	1730.9	1664.4	1578.9	1489.6	1385.1	1280.6
140	1806.9	1797.4	1772.7	1734.7	1683.4	1622.6	1546.6	1464.9	1377.5	1286.3
145	1708.1	1698.6	1679.6	1647.3	1603.6	1550.4	1491.5	1421.2	1347.1	1273.0
150	1588.4	1580.8	1565.6	1540.9	1506.7	1464.9	1415.5	1362.3	1307.2	1244.5
155	1464.9	1459.2	1447.8	1428.8	1406.0	1373.7	1337.6	1299.6	1257.8	1216.0
160	1347.1	1345.2	1337.6	1326.2	1309.1	1290.1	1267.3	1240.7	1212.2	1185.6
165	1250.2	1248.3	1244.5	1238.8	1229.3	1217.9	1204.6	1191.3	1176.1	1157.1
170	1178.0	1178.0	1176.1	1172.3	1168.5	1164.7	1160.9	1155.2	1147.6	1140.0
175	1136.2	1136.2	1134.3	1134.3	1132.4	1132.4	1130.5	1130.5	1128.6	1126.7
180	1121.0	1121.0	1121.0	1121.0	1121.0	1121.0	1121.0	1121.0	1121.0	1121.0

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	2578.3	2578.3	2578.3	2578.3	2578.3	2578.3	2578.3	2578.3	2578.3
5	2483.3	2477.6	2473.8	2471.9	2468.1	2468.1	2466.2	2466.2	2468.1
10	2314.2	2293.3	2274.3	2257.2	2243.9	2232.5	2224.9	2221.1	2223.0
15	2105.2	2071.0	2038.7	2014.0	1995.0	1977.9	1968.4	1962.7	1964.6
20	1879.1	1824.0	1778.4	1736.6	1704.3	1679.6	1662.5	1651.1	1653.0
25	1616.9	1550.4	1487.7	1436.4	1392.7	1360.4	1337.6	1318.6	1318.6
30	1324.3	1248.3	1178.0	1115.3	1064.0	1020.3	988.0	969.0	967.1
35	1022.2	932.9	866.4	813.2	771.4	742.9	722.0	706.8	701.1
40	754.3	674.5	634.6	617.5	606.1	598.5	590.9	583.3	581.4
45	570.0	549.1	532.0	516.8	505.4	497.8	490.2	484.5	482.6
50	444.6	437.0	427.5	419.9	412.3	404.7	400.9	397.1	395.2
55	336.3	334.4	336.3	334.4	330.6	326.8	323.0	321.1	321.1
60	250.8	252.7	254.6	256.5	256.5	254.6	252.7	250.8	250.8

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CANDELA TABULATION - (Cont.)

65	178.6	182.4	186.2	188.1	188.1	190.0	188.1	188.1	190.0
70	115.9	123.5	129.2	127.3	129.2	133.0	133.0	136.8	144.4
75	64.6	68.4	74.1	76.0	76.0	79.8	79.8	79.8	79.8
80	28.5	30.4	32.3	34.2	36.1	36.1	38.0	38.0	38.0
85	15.2	15.2	13.3	13.3	11.4	11.4	11.4	11.4	11.4
90	5.7	5.7	5.7	3.8	3.8	3.8	3.8	3.8	1.9
95	87.4	95.0	95.0	81.7	72.2	72.2	74.1	70.3	70.3
100	252.7	248.9	231.8	207.1	191.9	176.7	161.5	157.7	155.8
105	463.6	433.2	393.3	343.9	304.0	275.5	254.6	245.1	243.2
110	655.5	596.6	530.1	461.7	410.4	376.2	351.5	338.2	338.2
115	841.7	742.9	649.8	573.8	514.9	473.1	444.6	429.4	427.5
120	970.9	858.8	758.1	672.6	608.0	564.3	537.7	518.7	511.1
125	1065.9	951.9	849.3	758.1	689.7	646.0	619.4	600.4	590.9
130	1134.3	1024.1	927.2	841.7	771.4	725.8	689.7	665.0	649.8
135	1174.2	1075.4	986.1	908.2	843.6	796.1	765.7	746.7	737.2
140	1195.1	1107.7	1029.8	959.5	904.4	860.7	830.3	813.2	803.7
145	1197.0	1126.7	1062.1	1003.2	955.7	917.7	891.1	875.9	868.3
150	1187.5	1134.3	1081.1	1037.4	995.6	969.0	946.2	934.8	929.1
155	1174.2	1134.3	1096.3	1060.2	1035.5	1012.7	995.6	988.0	980.4
160	1159.0	1130.5	1103.9	1084.9	1065.9	1046.9	1041.2	1033.6	1029.8
165	1140.0	1126.7	1113.4	1100.1	1086.8	1081.1	1077.3	1071.6	1067.8
170	1132.4	1122.9	1115.3	1111.5	1109.6	1105.8	1102.0	1100.1	1098.2
175	1126.7	1124.8	1122.9	1122.9	1121.0	1119.1	1119.1	1117.2	1115.3
180	1121.0	1121.0	1121.0	1121.0	1121.0	1121.0	1121.0	1121.0	1121.0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	844.44	N.A.	9.90
0-30	1639.36	N.A.	19.20
0-40	2388.55	N.A.	27.90
0-60	3119.33	N.A.	36.40
0-80	3368.23	N.A.	39.30
0-90	3387.44	N.A.	39.60
10-90	3153.27	N.A.	36.80
20-40	1544.12	N.A.	18.00
20-50	1991.76	N.A.	23.30
40-70	907.00	N.A.	10.60
60-80	248.90	N.A.	2.90
70-80	72.68	N.A.	0.80
80-90	19.21	N.A.	0.20
90-110	515.89	N.A.	6.00
90-120	1339.08	N.A.	15.60
90-130	2376.61	N.A.	27.80
90-150	4170.27	N.A.	48.70
90-180	5172.98	N.A.	60.40
110-180	4657.09	N.A.	54.40
0-180	8560.42	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	234.17
10-20	610.27
20-30	794.93
30-40	749.19
40-50	447.65
50-60	283.13
60-70	176.23
70-80	72.68
80-90	19.21
90-100	97.12
100-110	418.76
110-120	823.19
120-130	1037.54
130-140	991.55
140-150	802.11
150-160	565.10
160-170	329.68
170-180	107.93

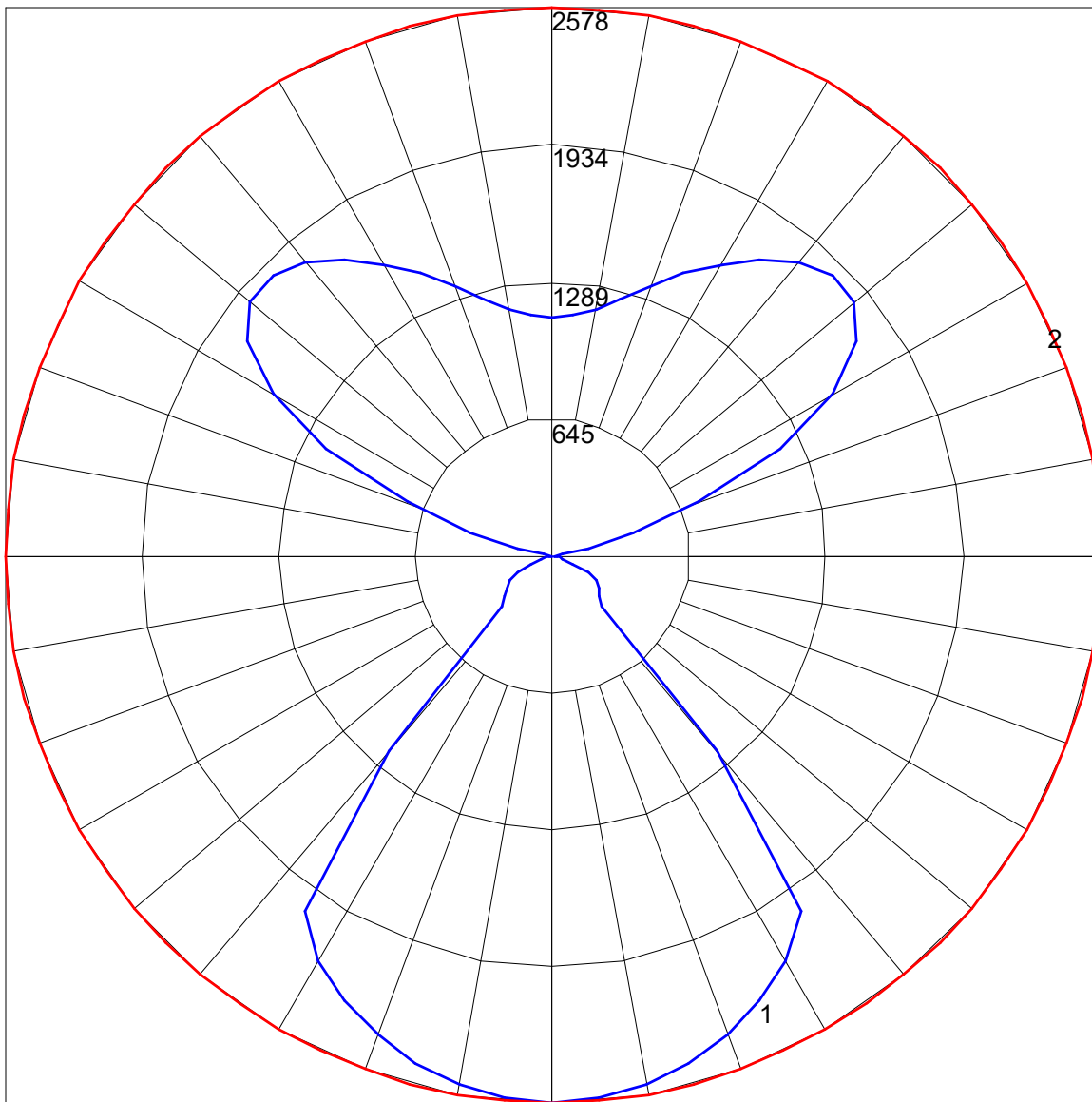
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 2578.3 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.)