

IES Report

BoxRail® | 207 | Wide Batwing, up | Black Baffle, down | 90 CRI | HO

207-BX-XX-4-48-XX-XX-XX-XX-X-X-Z-HO-359-G1BB-X-BL-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	60	62	63	64
Total Lumens, 4' rail length (1219mm)	6146	6340	6470	6534
Lumens per foot (305mm)	1537	1585	1617	1634
Lumens per foot UP (305mm)	1129	1165	1188	1200
Lumens per foot DOWN (305mm)	408	420	429	433
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_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-359-G1BB-BL

[LUMINAIRE] BoxRail LED, 48", 3500K, 90 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	6470
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	63
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	807	2742	2119
55	555	619	971
65	398	221	432
75	190	184	455
85	264	214	583

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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	2033.0	2033.0	2033.0	2033.0	2033.0	2033.0	2033.0	2033.0	2033.0	2033.0
5	2023.5	2010.2	1996.9	1985.5	1972.2	1958.9	1947.5	1936.1	1926.6	1917.1
10	2000.7	1974.1	1947.5	1922.8	1898.1	1873.4	1852.5	1814.5	1778.4	1746.1
15	1960.8	1919.0	1881.0	1844.9	1803.1	1742.3	1683.4	1630.2	1580.8	1533.3
20	1905.7	1852.5	1803.1	1746.1	1664.4	1584.6	1506.7	1430.7	1360.4	1295.8
25	1833.5	1772.7	1713.8	1616.9	1518.1	1417.4	1318.6	1223.6	1136.2	1056.4
30	1742.3	1668.2	1586.5	1466.8	1349.0	1233.1	1121.0	1012.7	906.3	798.0
35	1634.0	1554.2	1442.1	1305.3	1164.7	1029.8	906.3	773.3	644.1	524.4
40	1046.9	982.3	893.0	809.4	760.0	741.0	651.7	513.0	385.7	271.7
45	36.1	74.1	157.7	216.6	229.9	197.6	243.2	229.9	165.3	104.5
50	28.5	28.5	26.6	26.6	24.7	36.1	36.1	43.7	49.4	51.3
55	24.7	24.7	22.8	20.9	17.1	17.1	15.2	17.1	19.0	22.8
60	22.8	20.9	19.0	17.1	15.2	13.3	11.4	9.5	9.5	11.4
65	17.1	17.1	15.2	13.3	11.4	11.4	9.5	7.6	7.6	7.6
70	11.4	11.4	11.4	11.4	9.5	9.5	7.6	7.6	5.7	5.7
75	7.6	7.6	9.5	7.6	7.6	7.6	7.6	5.7	5.7	5.7
80	9.5	9.5	9.5	9.5	7.6	7.6	7.6	5.7	5.7	3.8
85	9.5	9.5	9.5	9.5	9.5	9.5	7.6	7.6	7.6	5.7
90	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6
95	15.2	26.6	22.8	24.7	28.5	36.1	41.8	68.4	77.9	89.3
100	104.5	114.0	121.6	134.9	155.8	182.4	214.7	254.6	288.8	307.8
105	300.2	296.4	326.8	355.3	387.6	446.5	503.5	539.6	598.5	594.7
110	723.9	733.4	771.4	777.1	893.0	955.7	1031.7	1081.1	1022.2	872.1
115	1565.6	1556.1	1512.4	1535.2	1539.0	1586.5	1493.4	1373.7	1195.1	961.4
120	2179.3	2152.7	2080.5	1987.4	1930.4	1768.9	1613.1	1406.0	1183.7	976.6
125	2173.6	2152.7	2093.8	1998.8	1875.3	1711.9	1531.4	1349.0	1164.7	995.6
130	1938.0	1922.8	1877.2	1803.1	1698.6	1575.1	1440.2	1295.8	1157.1	1027.9
135	1738.5	1727.1	1692.9	1635.9	1559.9	1463.0	1366.1	1257.8	1153.3	1050.7
140	1590.3	1578.9	1552.3	1510.5	1455.4	1387.0	1309.1	1227.4	1141.9	1056.4
145	1464.9	1457.3	1434.5	1402.2	1356.6	1303.4	1242.6	1172.3	1102.0	1029.8
150	1326.2	1320.5	1305.3	1276.8	1240.7	1198.9	1149.5	1094.4	1037.4	978.5
155	1172.3	1166.6	1157.1	1138.1	1113.4	1083.0	1045.0	1003.2	965.2	925.3
160	1033.6	1029.8	1024.1	1012.7	997.5	978.5	957.6	931.0	902.5	879.7
165	929.1	927.2	923.4	919.6	912.0	902.5	891.1	877.8	864.5	847.4
170	862.6	862.6	860.7	858.8	855.0	851.2	847.4	841.7	836.0	828.4
175	824.6	824.6	822.7	822.7	822.7	820.8	820.8	818.9	818.9	817.0
180	811.3	811.3	811.3	811.3	811.3	811.3	811.3	811.3	811.3	811.3

**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	2033.0	2033.0	2033.0	2033.0	2033.0	2033.0	2033.0	2033.0	2033.0
5	1907.6	1900.0	1892.4	1886.7	1882.9	1879.1	1875.3	1875.3	1875.3
10	1715.7	1689.1	1666.3	1645.4	1626.4	1613.1	1601.7	1594.1	1594.1
15	1487.7	1444.0	1407.9	1375.6	1349.0	1328.1	1311.0	1301.5	1299.6
20	1236.9	1185.6	1140.0	1096.3	1062.1	1037.4	1012.7	995.6	991.8
25	982.3	910.1	843.6	786.6	739.1	701.1	674.5	653.6	651.7
30	697.3	609.9	532.0	467.4	416.1	372.4	342.0	319.2	317.3
35	414.2	313.5	262.2	222.3	180.5	150.1	133.0	127.3	131.1
40	203.3	146.3	119.7	104.5	89.3	77.9	74.1	70.3	68.4
45	93.1	77.9	68.4	60.8	55.1	51.3	47.5	45.6	45.6
50	53.2	47.5	43.7	39.9	36.1	32.3	30.4	28.5	28.5
55	26.6	26.6	24.7	22.8	20.9	19.0	17.1	17.1	17.1
60	11.4	13.3	13.3	13.3	11.4	11.4	9.5	9.5	9.5

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CANDELA TABULATION - (Cont.)

65	5.7	7.6	7.6	7.6	7.6	5.7	5.7	5.7	5.7
70	5.7	5.7	3.8	3.8	3.8	3.8	3.8	3.8	3.8
75	3.8	3.8	3.8	3.8	3.8	3.8	1.9	1.9	3.8
80	3.8	3.8	3.8	1.9	1.9	1.9	1.9	1.9	1.9
85	5.7	5.7	3.8	3.8	1.9	1.9	1.9	1.9	1.9
90	5.7	5.7	5.7	3.8	3.8	3.8	1.9	1.9	3.8
95	110.2	100.7	77.9	62.7	47.5	45.6	55.1	55.1	53.2
100	300.2	252.7	201.4	157.7	140.6	136.8	138.7	144.4	142.5
105	533.9	418.0	313.5	245.1	216.6	210.9	212.8	218.5	220.4
110	689.7	514.9	397.1	328.7	300.2	298.3	305.9	315.4	321.1
115	750.5	587.1	478.8	418.0	391.4	387.6	399.0	408.5	416.1
120	796.1	653.6	558.6	509.2	484.5	478.8	484.5	495.9	503.5
125	855.0	737.2	651.7	600.4	570.0	556.7	554.8	560.5	564.3
130	908.2	809.4	735.3	682.1	644.1	617.5	604.2	598.5	596.6
135	953.8	870.2	798.0	741.0	697.3	661.2	634.6	617.5	608.0
140	972.8	898.7	828.4	769.5	720.1	678.3	649.8	630.8	619.4
145	959.5	893.0	830.3	775.2	729.6	693.5	663.1	647.9	638.4
150	921.5	868.3	817.0	777.1	737.2	710.6	685.9	674.5	666.9
155	881.6	843.6	811.3	777.1	752.4	731.5	716.3	708.7	701.1
160	855.0	830.3	805.6	788.5	771.4	754.3	748.6	742.9	737.2
165	834.1	820.8	809.4	798.0	784.7	780.9	775.2	771.4	767.6
170	822.7	815.1	809.4	805.6	801.8	799.9	796.1	794.2	792.3
175	817.0	815.1	813.2	813.2	811.3	811.3	809.4	807.5	807.5
180	811.3	811.3	811.3	811.3	811.3	811.3	811.3	811.3	811.3

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	618.54	N.A.	9.60
0-30	1134.13	N.A.	17.50
0-40	1543.42	N.A.	23.90
0-60	1694.29	N.A.	26.20
0-80	1709.75	N.A.	26.40
0-90	1716.06	N.A.	26.50
10-90	1536.63	N.A.	23.80
20-40	924.88	N.A.	14.30
20-50	1055.43	N.A.	16.30
40-70	160.33	N.A.	2.50
60-80	15.46	N.A.	0.20
70-80	6.00	N.A.	0.10
80-90	6.31	N.A.	0.10
90-110	500.83	N.A.	7.70
90-120	1433.56	N.A.	22.20
90-130	2483.12	N.A.	38.40
90-150	3999.92	N.A.	61.80
90-180	4753.69	N.A.	73.50
110-180	4252.86	N.A.	65.70
0-180	6469.74	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	179.42
10-20	439.11
20-30	515.60
30-40	409.29
40-50	130.54
50-60	20.33
60-70	9.46
70-80	6.00
80-90	6.31
90-100	82.96
100-110	417.86
110-120	932.73
120-130	1049.56
130-140	863.68
140-150	653.12
150-160	433.14
160-170	242.31
170-180	78.33

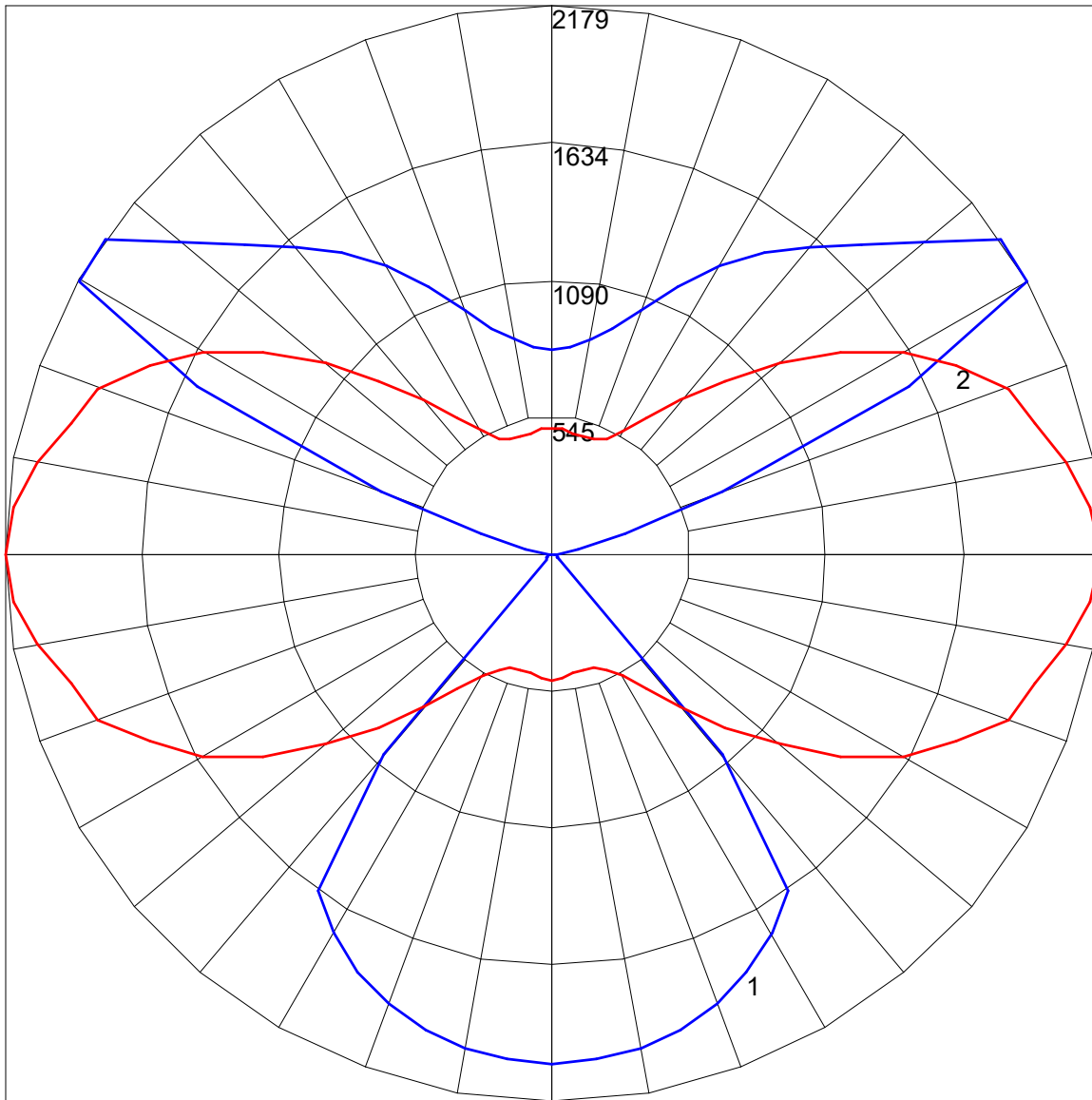
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 2179.3 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.)