

IES Report

BoxRail[®] | 207 | Wide Batwing, up | 120° Flywing, down | 80 CRI | HO

207-BX-XX-4-48-XX-XX-XX-X-X-Z-HO-35-G1G2-X-AL / WH-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	115	118	121	121
Total Lumens, 4' rail length (1219mm)	11787	12160	12408	12408
Lumens per foot (305mm)	2947	3040	3102	3102
Lumens per foot UP (305mm)	1445	1491	1521	1521
Lumens per foot DOWN (305mm)	1502	1549	1581	1581
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_G1G2.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L022012001 (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-G1G2

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

[MORE] 120° flywing 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	12385
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	120
Total Luminaire Watts	103.13
Ballast Factor	1.00
CIE Type	General Diffuse
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	43059	44868	54618
55	31780	35551	51912
65	18289	22975	47032
75	5868	9364	35874
85	662	1096	13239

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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	2001.252	2001.252	2001.252	2001.252	2001.252	2001.252	2001.252	2001.252	2001.252	2001.252
5	2028.180	2026.794	2025.364	2023.230	2021.228	2019.072	2016.806	2014.430	2011.966	2009.414
10	2103.794	2100.692	2095.808	2090.176	2083.488	2075.832	2067.186	2053.216	2038.938	2024.286
15	2205.016	2200.616	2192.608	2182.884	2169.398	2147.464	2123.946	2099.064	2073.016	2042.216
20	2296.492	2290.376	2279.992	2265.296	2239.798	2212.056	2180.640	2141.458	2101.154	2058.782
25	2346.278	2338.160	2328.106	2305.974	2280.234	2247.124	2208.536	2169.420	2112.506	2053.326
30	2332.462	2325.290	2314.774	2293.698	2268.046	2236.300	2199.780	2149.422	2089.956	2023.824
35	2252.976	2245.936	2234.672	2219.998	2197.074	2171.246	2139.610	2082.938	2026.442	1957.296
40	2115.036	2110.218	2099.944	2086.172	2070.046	2050.488	2014.254	1971.640	1921.414	1851.080
45	1925.264	1923.152	1915.606	1905.772	1893.100	1879.372	1848.176	1818.212	1763.498	1710.126
50	1689.776	1686.058	1680.954	1676.576	1672.374	1661.154	1642.058	1615.240	1574.342	1518.462
55	1413.896	1410.244	1410.684	1411.190	1406.108	1390.026	1383.426	1364.374	1342.946	1309.924
60	1120.504	1118.524	1114.300	1096.040	1091.596	1086.602	1085.194	1083.786	1072.588	1052.502
65	784.872	786.962	773.476	766.128	767.690	781.616	783.772	780.362	788.150	791.670
70	475.970	464.794	465.036	469.326	491.304	497.420	508.112	516.956	527.670	530.926
75	234.938	221.584	239.338	243.958	249.876	258.324	265.012	271.854	286.088	290.510
80	65.648	77.726	73.964	78.188	82.654	85.998	91.938	103.444	108.460	124.014
85	23.782	25.696	25.850	25.608	25.410	25.322	24.420	24.728	26.334	29.194
90	14.300	14.388	14.300	14.300	14.190	13.926	13.750	13.288	12.628	11.990
95	47.036	57.618	57.728	60.918	64.592	70.708	78.628	93.632	100.958	118.800
100	170.962	173.162	179.102	190.894	205.370	223.476	246.950	272.844	295.592	309.430
105	378.598	353.914	383.856	405.482	427.592	466.466	502.172	536.580	578.666	581.702
110	758.868	739.816	748.484	766.194	844.646	893.662	936.672	976.118	981.442	912.450
115	1450.966	1426.810	1377.266	1391.324	1416.778	1461.064	1445.950	1397.264	1308.098	1172.622
120	2088.284	2056.538	2016.806	1972.234	1947.264	1864.588	1782.022	1663.442	1482.800	1301.520
125	2408.054	2386.274	2339.106	2275.130	2205.082	2064.128	1929.708	1752.718	1575.552	1387.364
130	2415.248	2407.152	2362.360	2290.024	2195.468	2076.206	1930.038	1772.056	1602.942	1442.452
135	2302.212	2297.966	2263.448	2200.308	2113.716	2007.038	1884.190	1751.486	1612.358	1475.606
140	2159.476	2156.638	2128.280	2077.834	2008.776	1922.426	1821.094	1714.460	1600.412	1486.012
145	2007.522	2003.430	1981.936	1944.712	1888.546	1820.676	1742.466	1650.440	1556.742	1460.382
150	1841.004	1837.638	1822.216	1790.294	1746.140	1690.832	1627.010	1556.456	1482.558	1403.292
155	1653.806	1650.440	1639.748	1616.076	1584.638	1544.576	1497.276	1445.246	1390.994	1335.202
160	1476.970	1474.792	1465.816	1452.440	1431.474	1406.240	1376.386	1340.570	1301.432	1268.718
165	1333.684	1331.594	1326.204	1319.120	1309.308	1295.206	1279.102	1261.084	1241.306	1218.536
170	1238.886	1237.258	1234.398	1230.944	1226.720	1221.726	1216.050	1207.932	1199.374	1190.354
175	1184.480	1183.732	1182.896	1181.774	1180.630	1179.376	1178.034	1176.582	1175.064	1173.458
180	1166.000	1166.000	1166.000	1166.000	1166.000	1166.000	1166.000	1166.000	1166.000	1166.000

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	2001.252	2001.252	2001.252	2001.252	2001.252	2001.252	2001.252	2001.252	2001.252
5	2006.818	2004.200	2001.560	1998.920	1996.324	1993.750	1991.110	1988.800	1986.490
10	2009.392	1994.322	1979.494	1971.926	1964.908	1958.418	1952.478	1946.956	1942.424
15	2012.362	1986.182	1960.706	1936.110	1912.020	1900.734	1891.076	1882.452	1876.028
20	2012.956	1964.952	1918.950	1883.486	1850.156	1818.586	1804.528	1792.604	1784.574
25	1994.718	1932.370	1870.748	1812.338	1767.678	1728.034	1698.818	1683.748	1674.288
30	1951.664	1876.512	1802.108	1732.390	1668.480	1623.094	1582.988	1566.092	1556.082
35	1877.524	1797.928	1711.424	1632.070	1561.626	1506.384	1464.496	1442.034	1429.384
40	1775.070	1686.190	1598.300	1511.994	1439.526	1379.620	1339.118	1313.774	1300.860
45	1627.912	1548.536	1462.164	1378.256	1306.250	1250.194	1211.650	1186.812	1175.086
50	1454.376	1380.258	1301.960	1227.314	1159.950	1112.694	1078.220	1055.406	1045.440
55	1247.356	1183.600	1121.230	1057.188	1003.244	964.634	936.958	919.116	914.496
60	1018.380	973.632	918.016	864.952	822.624	792.286	772.706	758.648	755.920

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CANDELA TABULATION - (Cont.)

65	775.104	740.300	705.716	677.402	655.754	639.056	629.442	623.590	620.004
70	529.210	524.920	512.842	495.748	481.382	470.602	465.784	462.990	460.306
75	300.168	309.870	315.106	309.628	303.710	301.906	295.768	294.976	299.486
80	124.278	132.352	142.538	158.906	165.836	165.352	161.700	160.886	161.370
85	31.394	32.560	34.232	37.180	38.126	40.128	39.930	40.766	43.164
90	10.978	10.142	9.218	8.294	7.568	6.732	5.896	6.094	5.896
95	124.938	125.268	115.390	88.990	77.638	76.604	81.026	83.358	85.206
100	305.822	290.598	257.114	220.022	201.696	191.906	184.272	181.302	182.930
105	557.524	502.920	430.518	363.462	323.730	302.852	291.940	288.794	292.490
110	795.586	683.650	578.358	492.294	443.498	420.640	410.542	407.506	407.924
115	998.162	824.318	704.792	620.136	566.368	537.900	525.250	520.784	524.282
120	1119.734	950.026	828.564	736.758	682.594	652.872	639.012	631.202	628.122
125	1213.872	1063.678	943.492	847.264	788.612	754.270	734.492	723.294	717.728
130	1288.650	1160.258	1050.060	959.574	889.680	844.382	813.626	794.904	786.522
135	1346.202	1228.986	1125.586	1039.390	969.188	915.970	879.164	855.778	845.724
140	1372.800	1270.148	1174.580	1089.792	1022.164	965.712	927.366	903.562	891.264
145	1365.892	1277.474	1191.916	1116.544	1054.284	1005.136	967.384	948.244	936.628
150	1328.404	1255.166	1184.854	1128.138	1073.424	1038.400	1004.806	992.398	982.564
155	1277.078	1224.212	1177.044	1129.678	1097.338	1068.056	1046.100	1035.650	1027.356
160	1234.970	1199.044	1163.624	1140.480	1117.512	1094.456	1085.744	1077.824	1071.444
165	1197.900	1181.818	1165.494	1149.104	1132.274	1125.718	1119.888	1114.476	1109.988
170	1180.938	1171.192	1161.358	1157.002	1152.866	1148.928	1145.210	1141.690	1138.566
175	1171.808	1170.114	1168.376	1166.616	1164.878	1163.118	1161.358	1159.730	1158.124
180	1166.000	1166.000	1166.000	1166.000	1166.000	1166.000	1166.000	1166.000	1166.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	770.40	N.A.	6.20
0-30	1705.62	N.A.	13.80
0-40	2888.41	N.A.	23.30
0-60	5223.04	N.A.	42.20
0-80	6258.26	N.A.	50.50
0-90	6310.73	N.A.	51.00
10-90	6118.54	N.A.	49.40
20-40	2118.01	N.A.	17.10
20-50	3364.49	N.A.	27.20
40-70	3061.21	N.A.	24.70
60-80	1035.22	N.A.	8.40
70-80	308.64	N.A.	2.50
80-90	52.47	N.A.	0.40
90-110	580.32	N.A.	4.70
90-120	1592.8	N.A.	12.90
90-130	2890.5	N.A.	23.30
90-150	4991.83	N.A.	40.30
90-180	6074.61	N.A.	49.00
110-180	5494.29	N.A.	44.40
0-180	12385.34	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	192.20
10-20	578.21
20-30	935.22
30-40	1182.79
40-50	1246.48
50-60	1088.15
60-70	726.57
70-80	308.64
80-90	52.47
90-100	111.76
100-110	468.56
110-120	1012.48
120-130	1297.7
130-140	1180.41
140-150	920.92
150-160	621.72
160-170	348.59
170-180	112.47

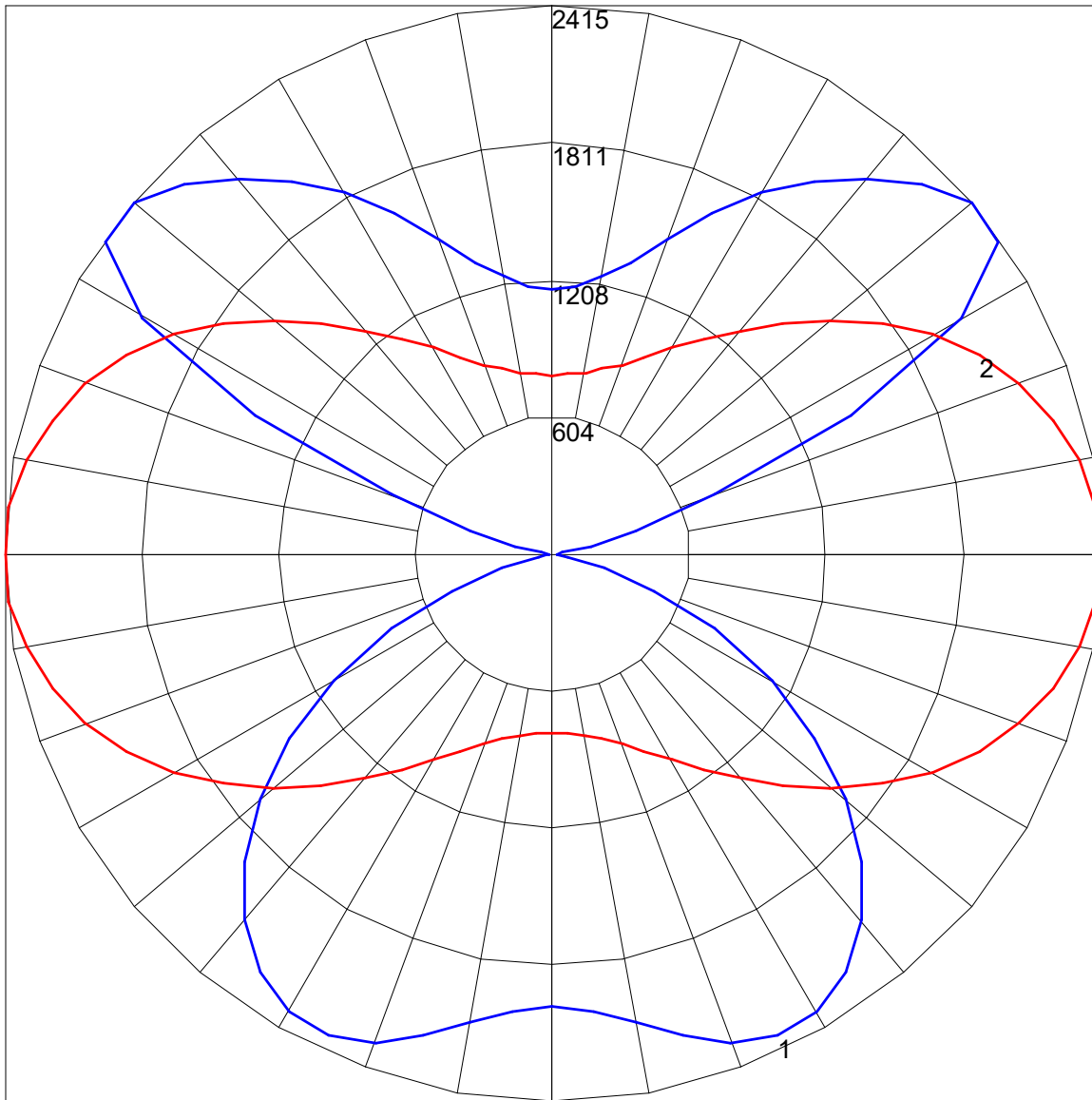
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	107	107	107	107	99	99	99	99	84	84	84	70	70	70	57	57	57	51
1	98	94	90	87	91	87	84	81	74	72	69	62	60	59	51	50	49	43
2	89	82	76	71	82	76	71	66	65	61	58	54	52	49	45	43	41	36
3	82	72	65	59	75	67	60	55	57	52	48	48	44	41	40	37	35	31
4	75	64	56	50	69	59	52	47	51	45	41	43	39	35	35	32	30	26
5	68	57	49	42	63	53	45	40	45	40	35	38	34	30	32	28	26	23
6	63	51	43	37	58	47	40	35	41	35	31	34	30	27	29	25	23	20
7	58	46	38	32	53	43	35	30	37	31	27	31	27	23	26	23	20	17
8	54	41	34	28	50	39	32	27	33	28	24	28	24	21	24	20	18	15
9	50	38	30	25	46	35	28	24	30	25	21	26	22	19	22	18	16	14
10	47	35	27	22	43	32	26	21	28	23	19	24	20	17	20	17	14	12

POLAR GRAPH



Maximum Candela = 2415.248 Located At Horizontal Angle = 0, Vertical Angle = 130
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Horizontal Cone Through Vertical Angle (130) (Through Max. Cd.)