

IES Report

BoxRail® | 207 | Wide Batwing, up | Diffuse, down | 80 CRI | HO

207-BX-XX-4-48-XX-XX-XX-XX-X-X-Z-HO-35-G1D1-X-BL-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	82	85	87	87
Total Lumens, 4' rail length (1219mm)	8432	8698	8875	8875
Lumens per foot (305mm)	2108	2174	2219	2219
Lumens per foot UP (305mm)	1316	1357	1385	1385
Lumens per foot DOWN (305mm)	792	817	834	834
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_G1D1_BL.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L022010913 (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-G1D1-BL

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

[MORE] diffuse 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	8859
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	86
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	17384	20863	37338
55	13202	16418	35623
65	8611	11165	32623
75	4062	5666	27633
85	544	1013	18549

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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	1232.242	1232.242	1232.242	1232.242	1232.242	1232.242	1232.242	1232.242	1232.242	1232.242
5	1225.620	1225.092	1224.586	1224.278	1223.970	1223.706	1223.530	1223.420	1223.376	1223.420
10	1208.086	1207.184	1206.722	1206.436	1206.414	1206.678	1207.162	1206.238	1205.710	1205.534
15	1177.858	1176.648	1176.538	1176.956	1177.484	1176.296	1175.988	1176.560	1178.012	1178.474
20	1137.268	1135.926	1136.542	1137.224	1136.014	1135.992	1136.476	1135.750	1136.454	1136.762
25	1086.932	1085.216	1085.656	1084.908	1085.568	1085.678	1085.788	1087.834	1085.898	1085.436
30	1025.530	1024.452	1024.936	1024.386	1024.606	1024.892	1025.728	1025.266	1025.486	1025.596
35	952.490	951.566	951.346	952.292	952.468	953.766	955.262	954.382	956.164	956.956
40	868.582	868.098	868.032	868.780	870.562	873.158	873.488	875.402	878.130	879.890
45	777.304	777.832	778.294	779.702	780.846	782.012	784.718	788.898	790.196	795.190
50	686.378	685.542	684.970	685.828	687.610	689.040	692.516	695.354	697.752	703.010
55	587.356	586.410	587.136	588.104	586.828	583.550	585.332	589.490	595.870	604.934
60	482.988	482.262	479.644	471.856	469.304	469.304	473.088	477.290	485.474	495.242
65	369.556	368.632	355.146	351.604	353.298	357.918	363.528	368.478	376.398	384.714
70	259.094	248.160	243.716	250.250	255.090	258.808	261.426	262.614	268.730	278.520
75	162.646	150.062	157.894	159.830	159.390	159.808	160.710	162.426	168.894	175.780
80	74.140	74.800	76.450	78.166	78.870	79.992	80.982	83.050	85.492	88.638
85	19.558	23.188	20.768	20.438	20.372	21.384	20.108	22.814	25.102	26.994
90	11.286	11.528	11.528	11.704	11.616	11.440	11.242	10.692	10.142	9.306
95	22.682	36.322	33.770	37.488	43.230	52.008	62.986	84.656	107.250	133.320
100	134.442	143.682	152.636	170.390	198.880	229.768	271.964	325.798	374.704	390.962
105	364.584	364.804	401.764	437.294	475.508	558.844	636.438	692.604	748.968	735.086
110	909.524	916.938	956.626	973.434	1108.668	1169.784	1267.486	1318.306	1233.122	1033.032
115	1905.530	1888.480	1829.080	1861.530	1860.122	1904.936	1781.274	1626.680	1401.774	1117.798
120	2568.698	2535.764	2447.214	2340.426	2268.134	2072.378	1884.806	1636.228	1369.456	1121.714
125	2517.614	2494.272	2426.248	2316.622	2170.410	1980.154	1766.314	1549.152	1330.120	1128.050
130	2225.872	2207.810	2158.024	2072.708	1949.024	1802.790	1642.740	1473.098	1306.668	1158.718
135	1981.144	1966.030	1928.058	1862.806	1772.364	1658.118	1545.126	1418.406	1296.350	1177.990
140	1788.446	1778.810	1749.726	1701.920	1638.076	1559.734	1468.830	1375.088	1277.254	1187.648
145	1637.394	1628.726	1605.230	1568.534	1517.846	1457.962	1389.828	1315.292	1240.338	1164.328
150	1478.444	1471.976	1455.982	1427.558	1390.400	1345.168	1292.896	1236.312	1177.792	1115.136
155	1320.572	1316.084	1305.920	1286.076	1260.336	1228.084	1190.068	1147.938	1107.216	1065.570
160	1181.532	1179.310	1171.786	1161.402	1145.188	1125.960	1103.366	1076.284	1046.870	1021.944
165	1079.012	1077.560	1073.402	1068.122	1060.664	1049.334	1036.684	1022.846	1007.908	990.572
170	1009.118	1007.930	1005.576	1002.760	999.306	995.214	990.550	983.642	976.338	968.660
175	961.906	961.444	960.982	959.970	959.068	958.078	956.978	955.790	954.514	953.194
180	941.600	941.600	941.600	941.600	941.600	941.600	941.600	941.600	941.600	941.600

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	1232.242	1232.242	1232.242	1232.242	1232.242	1232.242	1232.242	1232.242	1232.242
5	1223.508	1223.684	1223.948	1224.256	1224.630	1225.070	1225.532	1226.104	1226.720
10	1205.688	1206.194	1206.986	1206.634	1206.502	1206.634	1207.030	1207.646	1208.636
15	1178.034	1176.868	1176.494	1176.912	1178.232	1177.572	1177.506	1177.924	1179.332
20	1136.564	1136.476	1137.312	1136.212	1136.256	1137.576	1136.828	1136.916	1138.742
25	1087.086	1086.514	1085.612	1086.778	1085.964	1086.206	1086.822	1086.426	1088.582
30	1025.662	1025.816	1025.860	1025.882	1028.038	1027.004	1028.126	1027.092	1029.402
35	957.198	958.672	957.462	957.792	958.474	958.738	959.024	958.804	960.234
40	881.276	881.474	881.914	882.354	882.244	883.234	882.596	883.652	886.842
45	795.322	796.752	800.184	798.688	797.698	801.504	802.164	802.648	803.308
50	707.168	710.952	712.536	713.262	714.054	716.980	718.058	718.102	717.552
55	609.202	614.614	619.410	623.172	624.536	625.218	625.394	625.900	627.550
60	504.372	512.666	516.120	522.654	526.482	528.088	529.100	528.968	530.376

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CANDELA TABULATION - (Cont.)

65	395.142	404.602	412.346	418.814	423.148	427.086	430.078	429.858	430.056
70	287.826	297.550	307.472	314.226	319.990	325.820	331.364	330.000	331.012
75	185.680	196.658	207.878	210.650	216.546	223.938	229.614	230.978	230.692
80	92.972	101.222	108.460	112.200	120.296	126.434	138.930	153.098	146.058
85	28.292	29.414	32.736	36.278	39.358	44.572	52.756	58.762	60.478
90	8.492	7.568	6.644	5.896	5.346	4.884	4.422	5.170	7.370
95	137.786	126.852	109.956	79.464	58.806	56.408	64.988	64.856	66.198
100	379.346	326.744	249.216	187.924	167.596	162.800	166.716	164.780	165.044
105	649.110	501.556	366.872	285.978	255.442	247.346	248.908	254.936	261.866
110	814.418	602.492	457.776	381.678	352.550	348.150	358.688	370.634	374.924
115	861.630	672.210	549.714	482.372	454.784	452.320	464.750	478.038	485.012
120	907.192	744.062	647.394	588.632	561.748	556.710	564.520	577.104	586.432
125	964.546	833.888	747.230	686.752	658.064	646.954	646.360	651.618	656.700
130	1024.034	921.822	839.476	777.590	738.606	719.070	706.266	697.818	693.946
135	1075.558	984.940	910.426	849.486	802.670	766.656	738.496	719.444	709.632
140	1099.494	1021.108	949.696	887.700	836.286	791.956	757.394	735.372	723.272
145	1090.034	1021.328	957.308	900.152	850.696	809.512	775.566	757.614	745.954
150	1057.452	1001.990	948.750	904.200	860.596	830.016	800.338	788.876	779.504
155	1021.768	981.354	944.548	907.258	879.780	854.480	835.296	825.792	818.246
160	996.160	968.462	940.808	920.436	900.416	880.638	872.366	865.040	859.188
165	974.094	960.014	945.780	931.502	917.026	910.316	904.288	898.634	893.860
170	960.630	952.314	943.976	939.906	935.990	932.250	928.708	925.298	922.240
175	951.786	950.356	948.882	947.364	945.846	944.306	942.766	941.270	939.774
180	941.600	941.600	941.600	941.600	941.600	941.600	941.600	941.600	941.600

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	448.44	N.A.	5.10
0-30	948.86	N.A.	10.70
0-40	1546.57	N.A.	17.50
0-60	2696.37	N.A.	30.40
0-80	3283.21	N.A.	37.10
0-90	3329.7	N.A.	37.60
10-90	3213.37	N.A.	36.30
20-40	1098.12	N.A.	12.40
20-50	1708.8	N.A.	19.30
40-70	1536.9	N.A.	17.30
60-80	586.84	N.A.	6.60
70-80	199.75	N.A.	2.30
80-90	46.48	N.A.	0.50
90-110	617.05	N.A.	7.00
90-120	1723.64	N.A.	19.50
90-130	2935.4	N.A.	33.10
90-150	4659.67	N.A.	52.60
90-180	5529.56	N.A.	62.40
110-180	4912.51	N.A.	55.50
0-180	8859.26	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	116.33
10-20	332.11
20-30	500.42
30-40	597.71
40-50	610.68
50-60	539.13
60-70	387.10
70-80	199.75
80-90	46.48
90-100	106.44
100-110	510.60
110-120	1106.59
120-130	1211.76
130-140	983.48
140-150	740.79
150-160	496.66
160-170	281.90
170-180	91.32

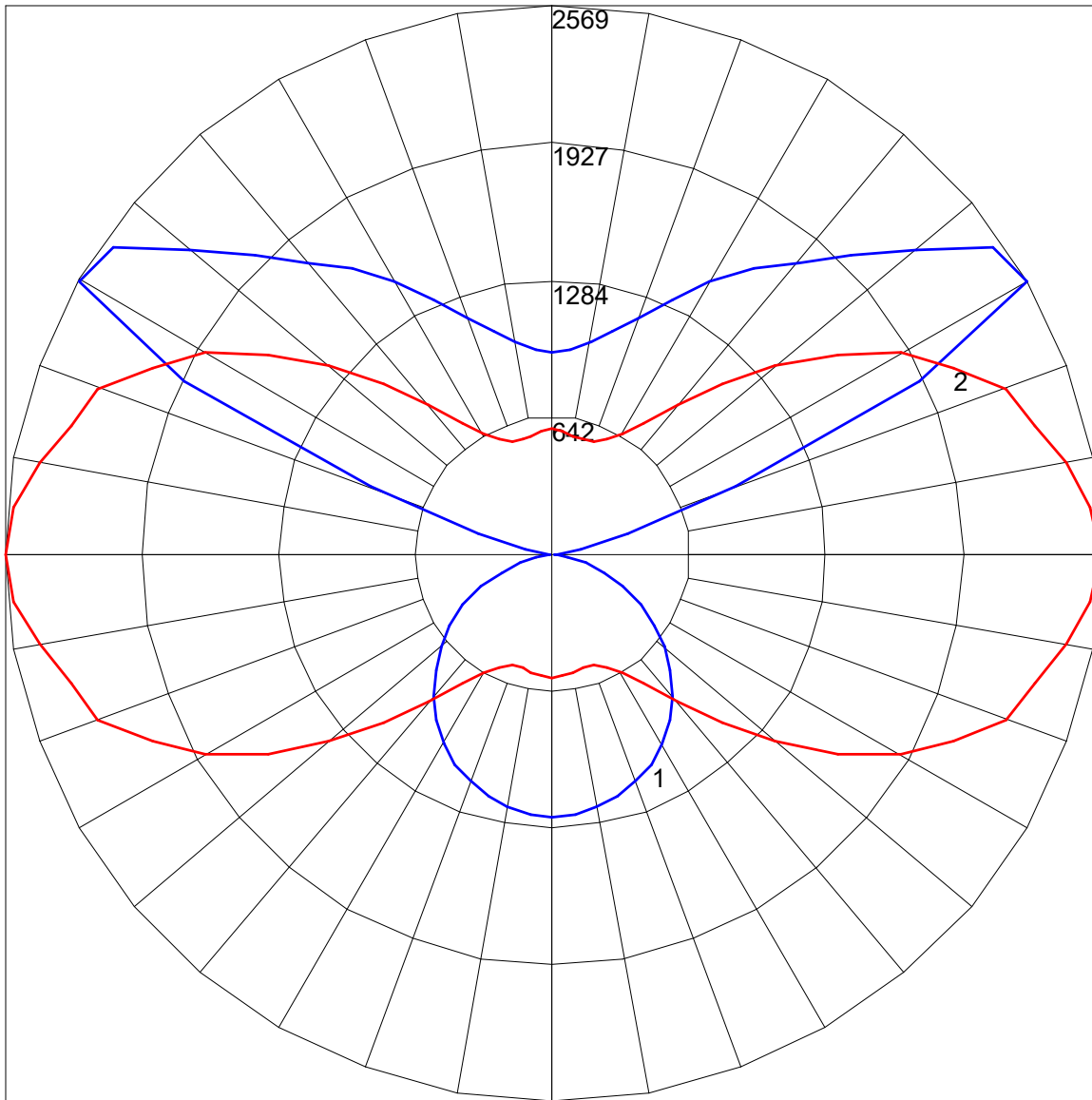
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	104	104	104	104	95	95	95	95	76	76	76	60	60	60	45	45	45	38
1	95	91	87	84	86	83	79	76	67	65	63	53	51	50	40	39	38	32
2	87	79	73	68	78	72	67	63	59	55	52	46	44	42	35	33	32	27
3	79	70	62	57	71	63	57	52	52	47	44	41	38	35	31	29	27	23
4	72	62	54	48	65	56	49	44	46	41	37	36	33	30	28	25	23	19
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	22	20	17
6	61	49	41	35	55	45	38	33	37	32	28	29	26	23	22	20	18	15
7	56	44	36	31	51	40	33	29	33	28	24	27	23	20	20	18	16	13
8	52	40	32	27	47	37	30	25	30	25	21	24	20	18	19	16	14	12
9	48	36	29	24	44	33	27	22	28	23	19	22	19	16	17	15	13	10
10	45	33	26	21	41	31	24	20	25	21	17	21	17	14	16	13	11	9

POLAR GRAPH



Maximum Candela = 2568.698 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.)