

IES Report

BoxRail® | 207 | Wide Batwing, up | 120° Flywing, down | 80 CRI | LO

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

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	108	112	114	114
Total Lumens, 4' rail length (1219mm)	3102	3200	3265	3265
Lumens per foot (305mm)	775	800	816	816
Lumens per foot UP (305mm)	380	392	400	400
Lumens per foot DOWN (305mm)	395	408	416	416
Input Power (W), 4' rail length (1219mm)	28.8	28.8	28.8	28.8
Watts per foot (305mm)	7.2	7.2	7.2	7.2
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_LO_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-LO-35-G1G2

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

[MORE] 120° flywing lens down, low 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	3265
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	114
Total Luminaire Watts	28.76
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	11352	11829	14399
55	8378	9373	13686
65	4822	6057	12399
75	1547	2469	9458
85	174	289	3490

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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	527.603	527.603	527.603	527.603	527.603	527.603	527.603	527.603	527.603	527.603
5	534.702	534.337	533.960	533.397	532.869	532.301	531.703	531.077	530.427	529.755
10	554.637	553.819	552.531	551.046	549.283	547.265	544.985	541.302	537.538	533.675
15	581.322	580.162	578.051	575.488	571.932	566.150	559.949	553.390	546.522	538.402
20	605.439	603.826	601.089	597.214	590.492	583.178	574.896	564.566	553.941	542.770
25	618.564	616.424	613.773	607.939	601.153	592.424	582.250	571.938	556.933	541.331
30	614.922	613.031	610.259	604.702	597.939	589.570	579.942	566.666	550.988	533.554
35	593.966	592.110	589.141	585.272	579.229	572.419	564.079	549.138	534.244	516.014
40	557.600	556.330	553.622	549.991	545.739	540.583	531.031	519.796	506.555	488.012
45	507.570	507.013	505.023	502.431	499.090	495.471	487.246	479.347	464.922	450.851
50	445.486	444.506	443.161	442.006	440.899	437.941	432.906	425.836	415.054	400.322
55	372.754	371.792	371.908	372.041	370.701	366.461	364.721	359.699	354.049	345.344
60	295.406	294.884	293.770	288.956	287.784	286.468	286.097	285.725	282.773	277.478
65	206.921	207.472	203.916	201.979	202.391	206.062	206.631	205.732	207.785	208.713
70	125.483	122.537	122.600	123.731	129.526	131.138	133.957	136.288	139.113	139.971
75	61.938	58.418	63.098	64.316	65.876	68.104	69.867	71.671	75.423	76.589
80	17.307	20.491	19.500	20.613	21.791	22.672	24.238	27.272	28.594	32.695
85	6.270	6.774	6.815	6.751	6.699	6.676	6.438	6.519	6.943	7.697
90	3.770	3.793	3.770	3.770	3.741	3.671	3.625	3.503	3.329	3.161
95	12.400	15.190	15.219	16.060	17.029	18.641	20.729	24.685	26.616	31.320
100	45.072	45.652	47.218	50.327	54.143	58.916	65.105	71.932	77.929	81.577
105	99.812	93.305	101.198	106.900	112.729	122.977	132.391	141.462	152.557	153.358
110	200.065	195.042	197.328	201.997	222.679	235.602	246.941	257.340	258.744	240.555
115	382.527	376.159	363.097	366.804	373.514	385.190	381.205	368.370	344.862	309.146
120	550.548	542.178	531.703	519.953	513.370	491.573	469.806	438.544	390.920	343.128
125	634.851	629.109	616.673	599.807	581.340	544.179	508.741	462.080	415.373	365.760
130	636.747	634.613	622.804	603.734	578.805	547.363	508.828	467.178	422.594	380.283
135	606.947	605.827	596.727	580.081	557.252	529.128	496.741	461.755	425.076	389.023
140	569.316	568.568	561.092	547.793	529.586	506.821	480.107	451.994	421.927	391.767
145	529.256	528.177	522.510	512.697	497.889	479.996	459.377	435.116	410.414	385.010
150	485.356	484.468	480.402	471.987	460.346	445.765	428.939	410.338	390.856	369.959
155	436.003	435.116	432.297	426.056	417.768	407.206	394.736	381.019	366.717	352.008
160	389.383	388.809	386.442	382.916	377.389	370.736	362.865	353.423	343.105	334.480
165	351.608	351.057	349.636	347.768	345.181	341.463	337.218	332.468	327.253	321.250
170	326.615	326.186	325.432	324.522	323.408	322.091	320.595	318.455	316.199	313.821
175	312.272	312.075	311.854	311.559	311.257	310.926	310.573	310.190	309.790	309.366
180	307.400	307.400	307.400	307.400	307.400	307.400	307.400	307.400	307.400	307.400

**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	527.603	527.603	527.603	527.603	527.603	527.603	527.603	527.603	527.603
5	529.070	528.380	527.684	526.988	526.304	525.625	524.929	524.320	523.711
10	529.749	525.776	521.867	519.871	518.021	516.310	514.744	513.288	512.094
15	530.532	523.630	516.913	510.429	504.078	501.103	498.556	496.283	494.589
20	530.688	518.033	505.905	496.555	487.768	479.445	475.739	472.596	470.479
25	525.880	509.443	493.197	477.798	466.024	455.573	447.870	443.897	441.403
30	514.530	494.717	475.101	456.721	439.872	427.907	417.333	412.879	410.240
35	494.984	473.999	451.194	430.273	411.701	397.138	386.094	380.173	376.838
40	467.973	444.541	421.370	398.617	379.511	363.718	353.040	346.359	342.954
45	429.177	408.250	385.480	363.358	344.375	329.597	319.435	312.887	309.795
50	383.426	363.886	343.244	323.565	305.805	293.347	284.258	278.243	275.616
55	328.848	312.040	295.597	278.713	264.492	254.313	247.016	242.312	241.094
60	268.482	256.685	242.022	228.033	216.874	208.875	203.713	200.007	199.288

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CANDELA TABULATION - (Cont.)

65	204.346	195.170	186.052	178.588	172.881	168.478	165.944	164.401	163.456
70	139.519	138.388	135.204	130.697	126.910	124.068	122.798	122.061	121.353
75	79.135	81.693	83.073	81.629	80.069	79.593	77.975	77.766	78.955
80	32.764	34.893	37.578	41.893	43.720	43.593	42.630	42.415	42.543
85	8.277	8.584	9.025	9.802	10.051	10.579	10.527	10.747	11.380
90	2.894	2.674	2.430	2.187	1.995	1.775	1.554	1.607	1.554
95	32.938	33.025	30.421	23.461	20.468	20.196	21.361	21.976	22.463
100	80.626	76.612	67.785	58.006	53.174	50.593	48.581	47.798	48.227
105	146.984	132.588	113.500	95.822	85.347	79.843	76.966	76.137	77.111
110	209.745	180.235	152.476	129.787	116.922	110.896	108.234	107.433	107.544
115	263.152	217.320	185.809	163.490	149.315	141.810	138.475	137.298	138.220
120	295.203	250.461	218.440	194.236	179.957	172.121	168.467	166.408	165.596
125	320.021	280.424	248.739	223.370	207.907	198.853	193.639	190.687	189.219
130	339.735	305.886	276.834	252.979	234.552	222.610	214.501	209.566	207.356
135	354.908	324.005	296.745	274.021	255.513	241.483	231.780	225.614	222.964
140	361.920	334.857	309.662	287.309	269.480	254.597	244.487	238.212	234.970
145	360.099	336.789	314.232	294.362	277.948	264.990	255.038	249.992	246.929
150	350.216	330.907	312.371	297.418	282.994	273.760	264.903	261.632	259.040
155	336.684	322.747	310.312	297.824	289.298	281.578	275.790	273.035	270.848
160	325.583	316.112	306.774	300.672	294.617	288.538	286.242	284.154	282.472
165	315.810	311.570	307.267	302.946	298.509	296.780	295.243	293.816	292.633
170	311.338	308.769	306.176	305.028	303.937	302.899	301.919	300.991	300.167
175	308.931	308.485	308.026	307.562	307.104	306.640	306.176	305.747	305.324
180	307.400	307.400	307.400	307.400	307.400	307.400	307.400	307.400	307.400

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	203.11	N.A.	6.20
0-30	449.66	N.A.	13.80
0-40	761.49	N.A.	23.30
0-60	1376.98	N.A.	42.20
0-80	1649.91	N.A.	50.50
0-90	1663.74	N.A.	51.00
10-90	1613.07	N.A.	49.40
20-40	558.38	N.A.	17.10
20-50	887.00	N.A.	27.20
40-70	807.05	N.A.	24.70
60-80	272.92	N.A.	8.40
70-80	81.37	N.A.	2.50
80-90	13.83	N.A.	0.40
90-110	152.99	N.A.	4.70
90-120	419.92	N.A.	12.90
90-130	762.04	N.A.	23.30
90-150	1316.03	N.A.	40.30
90-180	1601.49	N.A.	49.00
110-180	1448.49	N.A.	44.40
0-180	3265.23	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	50.67
10-20	152.44
20-30	246.56
30-40	311.83
40-50	328.62
50-60	286.88
60-70	191.55
70-80	81.37
80-90	13.83
90-100	29.46
100-110	123.53
110-120	266.93
120-130	342.12
130-140	311.20
140-150	242.79
150-160	163.91
160-170	91.90
170-180	29.65

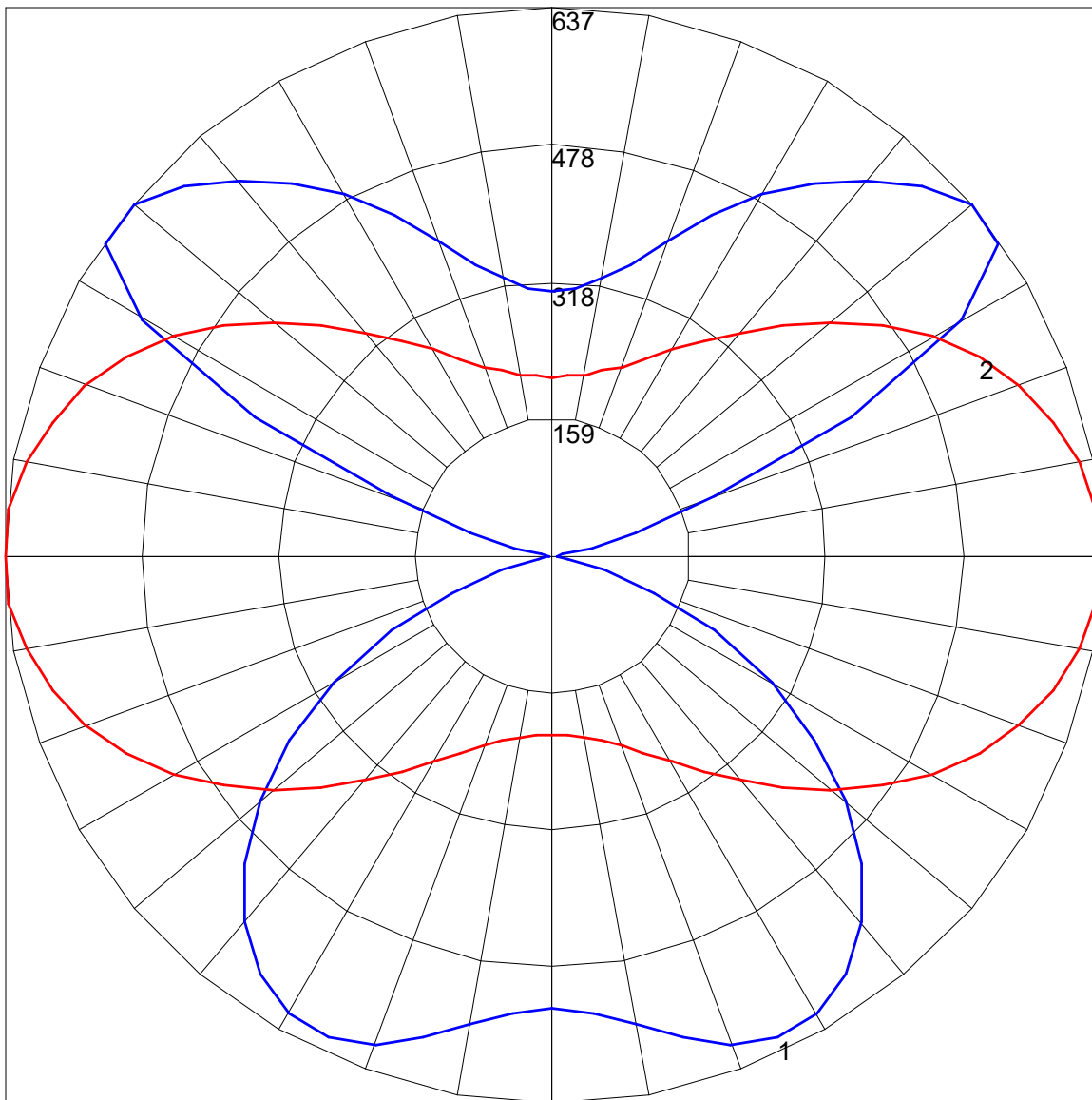
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	43	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 = 636.747 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.)