

IES Report

BoxRail® | 207 | Wide Batwing, up | 40° Symmetric, down | 80 CRI | SO

207-BX-XX-4-48-XX-XX-XX-XX-X-X-Z-SO-35-G1S1-X-BL-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	73	75	76	76
Total Lumens, 4' rail length (1219mm)	3640	3755	3831	3831
Lumens per foot (305mm)	910	939	958	958
Lumens per foot UP (305mm)	670	692	706	706
Lumens per foot DOWN (305mm)	239	247	252	252
Input Power (W), 4' rail length (1219mm)	50.5	50.5	50.5	50.5
Watts per foot (305mm)	12.7	12.7	12.7	12.7
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_SO_35_G1S1_BL.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L022010911 (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-SO-35-G1S1-BL

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

[MORE] 40° symmetric lens down, standard 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	3831
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	76
Total Luminaire Watts	50.52
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	1231	3048	16320
55	579	1442	9555
65	306	699	5451
75	153	315	3261
85	133	146	1491

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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	1059.683	1059.683	1059.683	1059.683	1059.683	1059.683	1059.683	1059.683	1059.683	1059.683
5	1007.367	1006.799	1006.636	1006.880	1007.518	1008.562	1009.989	1011.787	1013.944	1016.450
10	868.712	867.993	870.174	874.072	880.046	888.026	897.921	906.923	917.908	930.680
15	679.192	678.600	684.446	693.610	706.208	719.571	736.948	758.141	782.965	809.019
20	488.615	488.163	496.874	508.904	523.090	542.439	565.976	591.438	621.087	655.261
25	327.398	328.999	337.050	348.081	364.147	383.635	406.116	432.390	466.181	504.994
30	210.320	211.955	218.474	227.870	241.094	257.160	275.662	301.646	335.008	368.126
35	132.820	134.154	138.620	145.928	155.115	166.298	180.264	204.160	228.195	258.703
40	83.822	84.900	87.882	92.788	99.296	106.801	119.306	134.583	151.682	177.248
45	55.042	55.877	57.559	60.598	64.403	68.892	78.520	87.302	102.115	116.162
50	37.050	37.491	38.744	40.774	43.233	47.142	52.142	58.882	67.663	79.483
55	25.764	26.030	26.854	28.188	29.603	32.468	35.148	40.055	45.843	53.116
60	18.572	18.664	19.117	19.766	20.787	22.434	24.580	27.063	31.134	36.169
65	13.131	13.212	13.502	14.036	14.894	15.625	17.156	18.908	21.240	24.082
70	8.851	8.770	9.524	9.767	10.428	10.974	11.600	12.644	14.048	15.973
75	6.125	6.310	7.088	7.041	7.122	7.401	7.656	8.074	8.828	9.767
80	5.348	5.533	5.812	5.614	5.614	5.649	5.696	5.730	5.765	5.846
85	4.768	4.826	4.733	4.605	4.512	4.385	4.211	3.990	3.956	3.886
90	4.733	4.814	4.860	4.768	4.663	4.617	4.478	4.234	3.886	3.596
95	16.820	23.061	22.202	23.293	24.824	27.028	28.780	34.104	40.762	42.073
100	77.012	81.803	84.552	90.480	96.605	104.412	112.369	121.150	128.435	134.119
105	202.060	182.607	196.585	203.557	210.795	221.038	229.958	235.758	246.129	245.050
110	367.558	359.391	360.226	351.086	378.508	385.874	398.843	406.847	402.091	386.454
115	645.354	634.242	604.905	593.085	593.816	594.512	585.069	568.133	544.168	508.938
120	839.144	828.820	818.345	797.616	781.469	755.543	730.928	701.603	651.491	598.467
125	968.855	960.341	949.170	931.515	912.781	873.167	838.889	784.288	729.037	665.422
130	1028.073	1024.060	1010.383	988.540	963.078	927.455	881.090	827.486	765.032	700.106
135	1032.644	1028.920	1019.675	997.113	967.869	933.417	886.031	835.989	776.284	717.077
140	1000.465	1000.836	989.666	969.458	941.746	908.709	867.077	820.897	770.472	717.796
145	944.750	940.737	933.719	921.516	896.552	866.740	832.126	792.408	750.601	706.742
150	877.459	877.807	872.355	858.713	840.153	816.025	787.814	756.274	723.283	687.706
155	806.676	803.706	798.254	789.914	778.302	761.122	739.860	716.694	692.137	667.278
160	739.581	739.349	735.892	730.394	720.325	708.621	695.002	678.693	661.223	645.842
165	682.405	681.709	679.145	675.932	671.246	663.972	655.899	647.094	637.629	626.794
170	639.717	638.835	637.153	635.309	633.116	630.599	627.757	623.674	619.359	614.788
175	613.849	613.489	613.199	612.376	611.784	611.146	610.473	609.766	609.046	608.304
180	604.360	604.360	604.360	604.360	604.360	604.360	604.360	604.360	604.360	604.360

**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	1059.683	1059.683	1059.683	1059.683	1059.683	1059.683	1059.683	1059.683	1059.683
5	1019.280	1022.424	1025.834	1029.500	1033.398	1037.492	1041.692	1046.123	1050.635
10	945.145	961.188	978.367	984.028	990.362	997.333	1004.885	1012.877	1021.566
15	833.402	854.688	878.166	903.652	932.327	941.178	951.281	962.290	974.887
20	691.546	729.385	768.720	798.672	831.186	867.413	879.280	892.817	909.162
25	547.044	589.767	634.787	682.602	720.186	758.327	788.081	801.583	819.412
30	409.480	455.578	501.793	551.835	602.817	641.039	682.022	693.332	710.314
35	295.754	335.808	379.552	423.678	474.138	517.430	554.816	573.910	590.324
40	203.603	238.937	274.340	313.420	354.960	391.883	419.595	443.097	466.250
45	139.130	162.945	191.609	226.525	260.258	291.728	317.759	337.827	351.120
50	92.626	110.548	131.904	155.765	181.505	205.366	225.017	239.586	247.857
55	63.046	74.449	88.148	104.945	122.995	139.258	153.039	163.641	168.316
60	42.375	49.474	58.731	70.122	82.372	94.053	103.379	108.216	111.140

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CANDELA TABULATION - (Cont.)

65	28.153	33.106	39.312	46.249	53.488	60.622	66.897	70.296	71.862
70	18.490	21.704	25.648	29.905	34.162	38.512	42.398	44.544	45.704
75	11.240	13.120	15.544	18.084	20.567	23.014	25.091	26.425	27.225
80	6.310	6.914	7.946	9.152	10.498	11.739	12.969	13.560	13.514
85	3.631	3.318	3.550	3.886	4.060	4.048	4.628	5.023	4.860
90	3.260	2.923	2.680	2.332	2.134	1.844	1.554	1.752	1.844
95	44.370	48.917	49.103	42.862	37.700	34.881	37.514	37.793	37.050
100	131.161	127.148	124.584	111.290	101.512	94.795	91.756	89.192	87.418
105	241.466	229.019	208.487	183.802	163.293	148.097	137.820	131.880	130.976
110	361.317	326.772	288.840	252.892	223.451	202.919	190.600	183.187	180.670
115	463.907	411.232	358.892	314.998	280.453	255.525	240.329	231.084	227.917
120	539.841	473.872	418.528	370.168	333.767	306.890	288.654	278.133	275.767
125	594.941	529.053	469.881	418.064	380.144	351.642	332.062	320.984	317.376
130	633.464	569.583	511.966	461.622	420.523	391.662	371.977	360.853	356.468
135	655.006	596.692	543.077	496.770	457.724	429.652	410.837	398.356	392.150
140	664.112	613.095	565.790	523.972	490.483	462.283	444.605	433.469	427.553
145	662.430	619.927	580.650	545.490	516.745	493.870	476.284	467.190	461.877
150	653.962	620.878	588.596	562.171	537.184	520.620	505.192	498.765	494.056
155	641.874	617.538	595.057	572.924	557.206	543.147	532.602	527.243	523.230
160	629.880	612.967	596.391	584.710	573.353	562.368	557.624	553.587	550.455
165	616.784	608.606	600.404	592.215	584.118	580.383	577.216	574.281	571.845
170	610.009	605.056	600.114	597.702	595.451	593.305	591.298	589.408	587.795
175	607.550	606.784	606.019	605.265	604.522	603.780	603.038	602.365	601.692
180	604.360	604.360	604.360	604.360	604.360	604.360	604.360	604.360	604.360

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	321.44	N.A.	8.40
0-30	568.81	N.A.	14.80
0-40	762.89	N.A.	19.90
0-60	954.36	N.A.	24.90
0-80	1002.93	N.A.	26.20
0-90	1008.28	N.A.	26.30
10-90	913.40	N.A.	23.80
20-40	441.46	N.A.	11.50
20-50	564.90	N.A.	14.70
40-70	225.32	N.A.	5.90
60-80	48.57	N.A.	1.30
70-80	14.71	N.A.	0.40
80-90	5.35	N.A.	0.10
90-110	265.58	N.A.	6.90
90-120	711.07	N.A.	18.60
90-130	1284.66	N.A.	33.50
90-150	2277.07	N.A.	59.40
90-180	2823.15	N.A.	73.70
110-180	2557.57	N.A.	66.80
0-180	3831.43	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	94.88
10-20	226.56
20-30	247.37
30-40	194.08
40-50	123.44
50-60	68.02
60-70	33.86
70-80	14.71
80-90	5.35
90-100	48.71
100-110	216.87
110-120	445.48
120-130	573.59
130-140	549.73
140-150	442.68
150-160	309.19
160-170	178.67
170-180	58.22

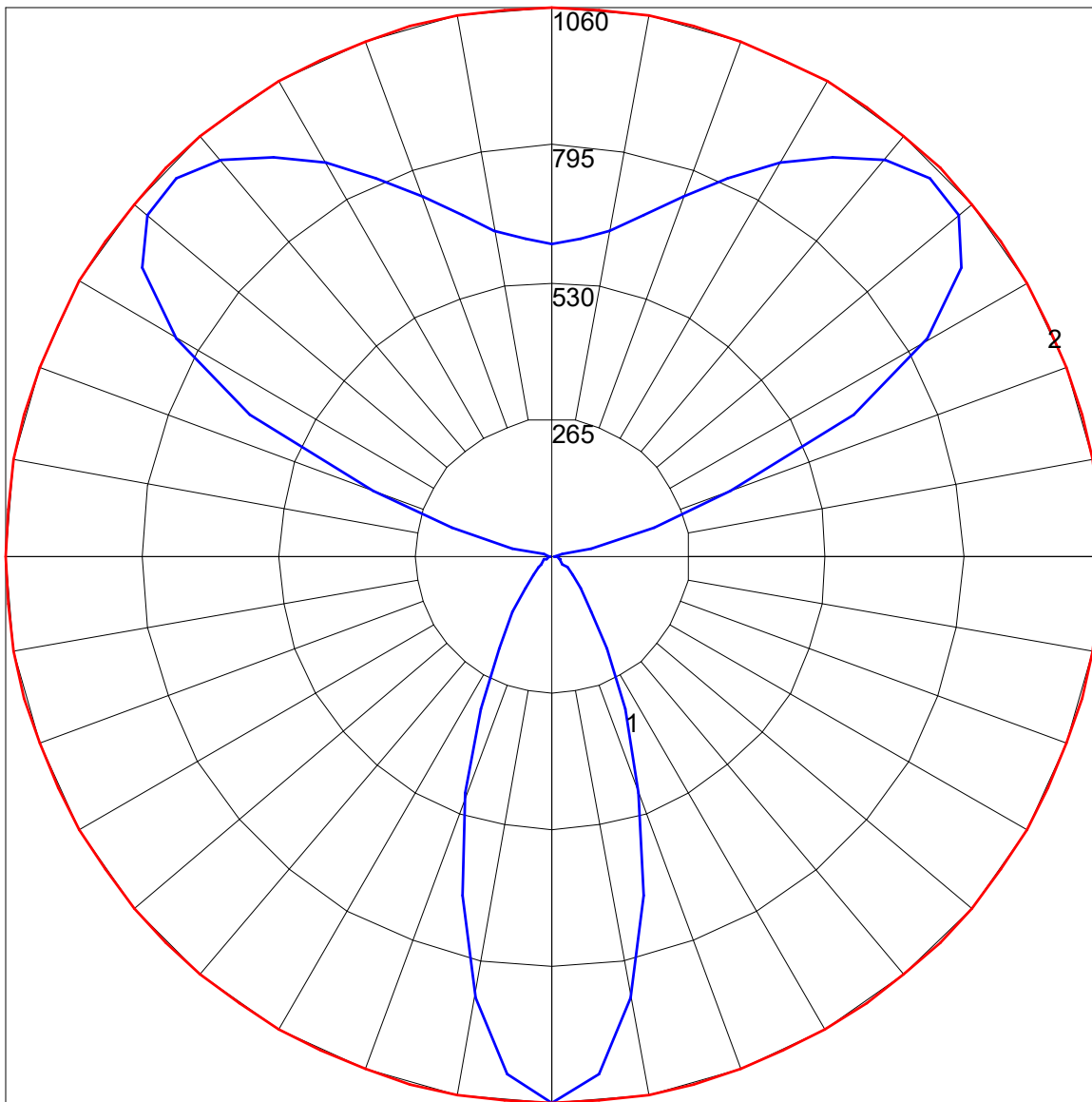
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	34	34	34	26
1	93	90	86	83	83	80	77	75	63	61	59	47	45	44	32	31	31	24
2	86	79	74	69	77	71	67	63	56	53	51	42	40	39	29	28	27	22
3	79	71	64	59	70	64	58	54	50	47	44	38	36	34	27	26	24	20
4	73	63	56	51	65	57	51	46	45	41	38	35	32	30	25	23	22	18
5	67	57	50	44	60	51	45	41	41	37	34	32	29	27	23	21	20	16
6	62	51	44	39	56	47	40	36	38	33	30	29	26	24	21	20	18	15
7	58	47	39	34	52	42	36	32	34	30	27	27	24	22	20	18	17	14
8	54	43	36	31	48	39	33	29	32	27	24	25	22	20	18	17	15	13
9	50	39	32	28	45	36	30	26	29	25	22	23	20	18	17	16	14	12
10	47	36	29	25	42	33	27	23	27	23	20	22	19	17	16	15	13	11

POLAR GRAPH



Maximum Candela = 1059.683 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.)