

IES Report

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

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

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	123	127	130	130
Total Lumens, 4' rail length (1219mm)	6204	6400	6530	6530
Lumens per foot (305mm)	1551	1600	1633	1633
Lumens per foot UP (305mm)	761	785	801	801
Lumens per foot DOWN (305mm)	790	815	832	832
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_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-SO-35-G1G2
 [LUMINAIRE] BoxRail LED, 48", 3500K, 80 CRI, zipper board, wide batwing lens up,
 [MORE] 120° flywing lens down, standard 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	6530
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	129
Total Luminaire Watts	50.52
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	22704	23658	28799
55	16757	18745	27372
65	9643	12114	24799
75	3094	4937	18915
85	349	578	6980

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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	1055.206	1055.206	1055.206	1055.206	1055.206	1055.206	1055.206	1055.206	1055.206	1055.206
5	1069.404	1068.673	1067.919	1066.794	1065.738	1064.602	1063.407	1062.154	1060.855	1059.509
10	1109.273	1107.638	1105.062	1102.093	1098.566	1094.530	1089.971	1082.605	1075.076	1067.351
15	1162.645	1160.325	1156.102	1150.975	1143.864	1132.299	1119.899	1106.779	1093.045	1076.805
20	1210.878	1207.653	1202.178	1194.429	1180.984	1166.357	1149.792	1129.132	1107.881	1085.540
25	1237.128	1232.848	1227.547	1215.877	1202.305	1184.847	1164.501	1143.876	1113.867	1082.663
30	1229.844	1226.062	1220.517	1209.404	1195.879	1179.140	1159.884	1133.332	1101.977	1067.107
35	1187.933	1184.221	1178.282	1170.544	1158.457	1144.839	1128.158	1098.276	1068.488	1032.029
40	1115.201	1112.660	1107.243	1099.982	1091.479	1081.166	1062.061	1039.592	1013.109	976.024
45	1015.139	1014.026	1010.047	1004.862	998.180	990.942	974.493	958.694	929.844	901.703
50	890.973	889.012	886.321	884.013	881.797	875.881	865.812	851.672	830.108	800.644
55	745.509	743.583	743.815	744.082	741.402	732.923	729.443	719.397	708.099	690.687
60	590.811	589.767	587.540	577.912	575.569	572.936	572.193	571.451	565.546	554.956
65	413.842	414.944	407.833	403.958	404.782	412.125	413.262	411.464	415.570	417.426
70	250.966	245.073	245.201	247.463	259.051	262.276	267.914	272.577	278.226	279.943
75	123.876	116.835	126.196	128.632	131.753	136.207	139.734	143.341	150.846	153.178
80	34.614	40.983	38.999	41.226	43.581	45.344	48.476	54.543	57.188	65.389
85	12.540	13.549	13.630	13.502	13.398	13.352	12.876	13.038	13.885	15.393
90	7.540	7.586	7.540	7.540	7.482	7.343	7.250	7.006	6.658	6.322
95	24.801	30.380	30.438	32.120	34.058	37.282	41.458	49.370	53.232	62.640
100	90.144	91.304	94.436	100.653	108.286	117.833	130.210	143.863	155.858	163.154
105	199.624	186.609	202.397	213.800	225.458	245.955	264.782	282.924	305.115	306.716
110	400.130	390.085	394.655	403.993	445.359	471.204	493.882	514.680	517.488	481.110
115	765.055	752.318	726.195	733.607	747.028	770.379	762.410	736.739	689.724	618.292
120	1101.095	1084.356	1063.407	1039.905	1026.739	983.146	939.612	877.088	781.840	686.256
125	1269.701	1258.217	1233.347	1199.614	1162.680	1088.358	1017.482	924.160	830.746	731.519
130	1273.494	1269.226	1245.608	1207.467	1157.610	1094.727	1017.656	934.357	845.188	760.566
135	1213.894	1211.655	1193.454	1160.162	1114.505	1058.256	993.482	923.511	850.152	778.047
140	1138.633	1137.136	1122.184	1095.585	1059.173	1013.643	960.213	903.988	843.854	783.534
145	1058.512	1056.354	1045.021	1025.394	995.779	959.993	918.755	870.232	820.828	770.020
150	970.711	968.936	960.805	943.973	920.692	891.530	857.878	820.677	781.712	739.918
155	872.007	870.232	864.594	852.113	835.536	814.413	789.473	762.039	733.433	704.016
160	778.766	777.618	772.885	765.832	754.777	741.472	725.731	706.846	686.210	668.960
165	703.215	702.113	699.271	695.536	690.362	682.927	674.436	664.935	654.507	642.501
170	653.231	652.372	650.864	649.043	646.816	644.183	641.190	636.910	632.397	627.641
175	624.544	624.150	623.709	623.117	622.514	621.853	621.145	620.380	619.579	618.732
180	614.800	614.800	614.800	614.800	614.800	614.800	614.800	614.800	614.800	614.800

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	1055.206	1055.206	1055.206	1055.206	1055.206	1055.206	1055.206	1055.206	1055.206
5	1058.140	1056.760	1055.368	1053.976	1052.607	1051.250	1049.858	1048.640	1047.422
10	1059.498	1051.552	1043.733	1039.743	1036.042	1032.620	1029.488	1026.577	1024.187
15	1061.064	1047.260	1033.827	1020.858	1008.156	1002.205	997.113	992.566	989.178
20	1061.377	1036.066	1011.810	993.111	975.537	958.891	951.478	945.191	940.957
25	1051.760	1018.886	986.394	955.596	932.048	911.145	895.740	887.794	882.806
30	1029.059	989.434	950.202	913.442	879.744	855.813	834.666	825.758	820.480
35	989.967	947.998	902.387	860.546	823.403	794.275	772.189	760.345	753.675
40	935.946	889.082	842.740	797.233	759.023	727.436	706.080	692.717	685.908
45	858.354	816.501	770.959	726.717	688.750	659.193	638.870	625.774	619.591
50	766.853	727.772	686.488	647.129	611.610	586.693	568.516	556.487	551.232
55	657.697	624.080	591.194	557.426	528.983	508.625	494.032	484.625	482.189
60	536.964	513.370	484.045	456.066	433.747	417.751	407.427	400.014	398.576

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CANDELA TABULATION - (Cont.)

65	408.691	390.340	372.105	357.176	345.761	336.957	331.888	328.802	326.911
70	279.038	276.776	270.408	261.394	253.820	248.136	245.595	244.122	242.707
75	158.270	163.386	166.147	163.258	160.138	159.187	155.950	155.533	157.911
80	65.528	69.786	75.156	83.787	87.441	87.186	85.260	84.831	85.086
85	16.553	17.168	18.050	19.604	20.103	21.158	21.054	21.495	22.759
90	5.788	5.348	4.860	4.373	3.990	3.550	3.109	3.213	3.109
95	65.876	66.050	60.842	46.922	40.936	40.391	42.723	43.952	44.927
100	161.252	153.224	135.569	116.012	106.349	101.187	97.162	95.596	96.454
105	293.967	265.176	227.000	191.644	170.694	159.686	153.932	152.273	154.222
110	419.491	360.470	304.952	259.573	233.844	221.792	216.468	214.867	215.087
115	526.304	434.640	371.618	326.981	298.630	283.620	276.950	274.595	276.440
120	590.405	500.923	436.879	388.472	359.913	344.242	336.934	332.816	331.192
125	640.042	560.848	497.478	446.739	415.814	397.706	387.278	381.373	378.438
130	679.470	611.772	553.668	505.957	469.104	445.220	429.003	419.131	414.712
135	709.816	648.011	593.491	548.042	511.026	482.966	463.559	451.228	445.927
140	723.840	669.714	619.324	574.618	538.959	509.194	488.975	476.424	469.939
145	720.198	673.577	628.465	588.723	555.895	529.981	510.075	499.983	493.858
150	700.431	661.815	624.741	594.836	565.987	547.520	529.807	523.264	518.079
155	673.368	645.494	620.623	595.648	578.596	563.157	551.580	546.070	541.697
160	651.166	632.223	613.547	601.344	589.234	577.077	572.483	568.307	564.943
165	631.620	623.140	614.533	605.891	597.017	593.560	590.486	587.633	585.266
170	622.676	617.538	612.352	610.056	607.875	605.798	603.838	601.982	600.335
175	617.862	616.969	616.053	615.125	614.208	613.280	612.352	611.494	610.647
180	614.800	614.800	614.800	614.800	614.800	614.800	614.800	614.800	614.800

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	406.21	N.A.	6.20
0-30	899.33	N.A.	13.80
0-40	1522.98	N.A.	23.30
0-60	2753.97	N.A.	42.20
0-80	3299.81	N.A.	50.50
0-90	3327.48	N.A.	51.00
10-90	3226.14	N.A.	49.40
20-40	1116.77	N.A.	17.10
20-50	1774.00	N.A.	27.20
40-70	1614.09	N.A.	24.70
60-80	545.84	N.A.	8.40
70-80	162.74	N.A.	2.50
80-90	27.67	N.A.	0.40
90-110	305.99	N.A.	4.70
90-120	839.84	N.A.	12.90
90-130	1524.08	N.A.	23.30
90-150	2632.06	N.A.	40.30
90-180	3202.98	N.A.	49.00
110-180	2896.99	N.A.	44.40
0-180	6530.45	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	101.34
10-20	304.87
20-30	493.12
30-40	623.65
40-50	657.24
50-60	573.75
60-70	383.10
70-80	162.74
80-90	27.67
90-100	58.93
100-110	247.06
110-120	533.85
120-130	684.24
130-140	622.40
140-150	485.58
150-160	327.82
160-170	183.80
170-180	59.30

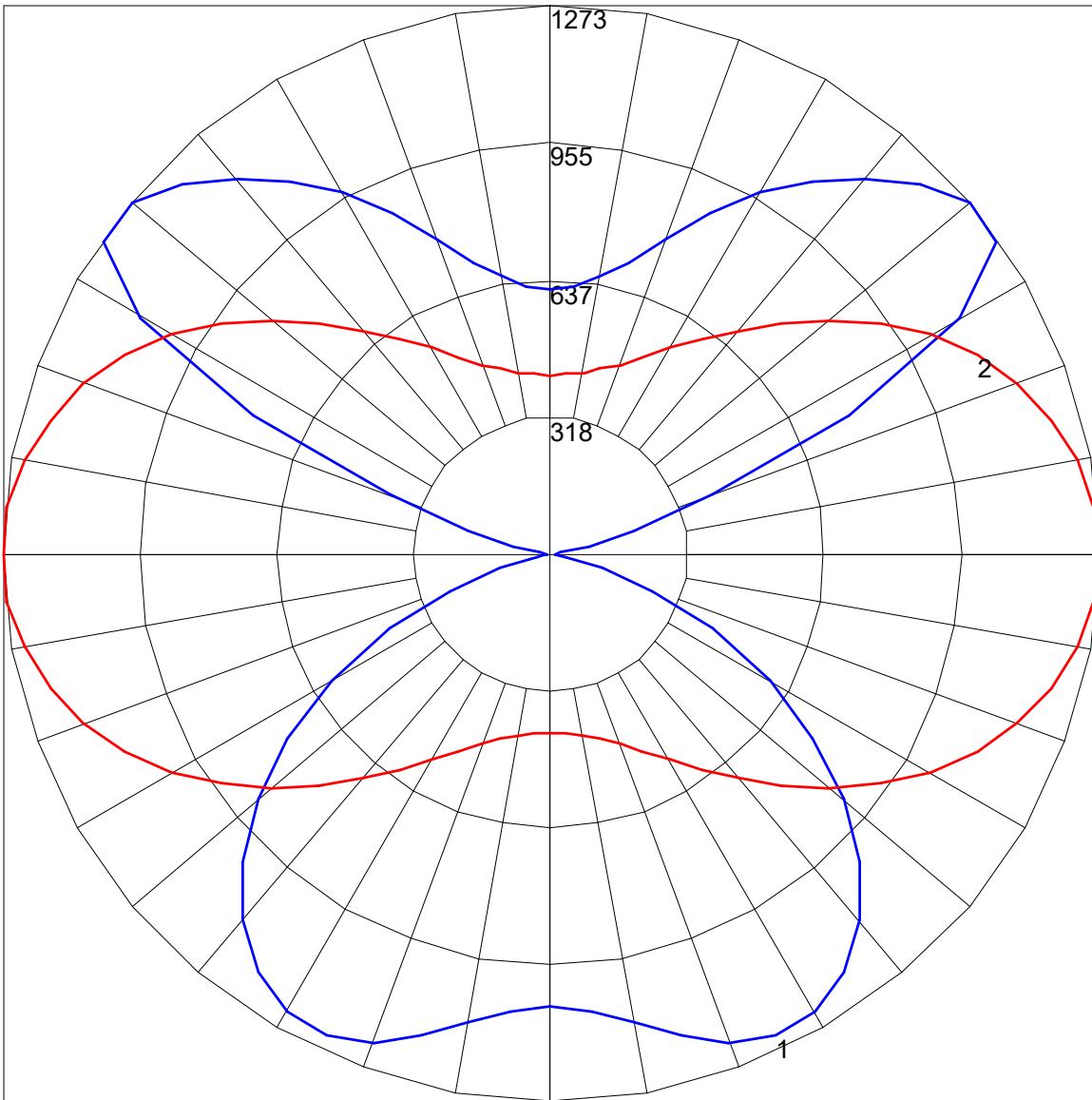
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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

POLAR GRAPH



Maximum Candela = 1273.494 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.)