

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-AL / WH-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	87	89	91	91
Total Lumens, 4' rail length (1219mm)	4354	4491	4583	4583
Lumens per foot (305mm)	1088	1123	1146	1146
Lumens per foot UP (305mm)	757	781	797	797
Lumens per foot DOWN (305mm)	331	342	349	349
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.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L022010907 (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
[LUMINAIRE] BoxRail LED, 48", 3500K, 80 CRI, zipper board, wide batwing lens up,
[MORE] 40° symmetric 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	4583
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	91
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	3035	5448	20057
55	1982	3306	13696
65	1297	2020	9767
75	695	1010	6670
85	194	261	3558

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	1176.24	1176.24	1176.24	1176.24	1176.24	1176.24	1176.24	1176.24	1176.24	1176.24
5	1132.16	1131.00	1131.00	1131.00	1132.16	1132.16	1133.32	1135.64	1136.80	1139.12
10	1006.88	1005.72	1008.04	1011.52	1017.32	1024.28	1033.56	1040.52	1049.80	1061.40
15	824.76	824.76	830.56	839.84	851.44	864.20	880.44	900.16	923.36	947.72
20	629.88	629.88	639.16	651.92	667.00	686.72	711.08	737.76	767.92	799.24
25	457.04	459.36	467.48	480.24	496.48	518.52	542.88	570.72	605.52	644.96
30	327.12	329.44	336.40	346.84	361.92	379.32	399.04	426.88	462.84	497.64
35	235.48	236.64	242.44	251.72	263.32	277.24	292.32	317.84	344.52	375.84
40	175.16	176.32	180.96	186.76	194.88	203.00	218.08	235.48	254.04	280.72
45	135.72	136.88	139.20	143.84	148.48	154.28	164.72	175.16	191.40	207.64
50	109.04	109.04	111.36	113.68	116.00	120.64	126.44	134.56	145.00	158.92
55	88.16	89.32	89.32	91.64	92.80	95.12	98.60	105.56	112.52	121.80
60	71.92	71.92	71.92	71.92	71.92	74.24	77.72	81.20	85.84	92.80
65	55.68	56.84	55.68	54.52	55.68	56.84	59.16	61.48	64.96	69.60
70	40.60	38.28	39.44	40.60	40.60	41.76	44.08	45.24	47.56	49.88
75	27.84	26.68	27.84	27.84	26.68	27.84	27.84	27.84	30.16	31.32
80	17.40	16.24	17.40	17.40	17.40	17.40	17.40	17.40	17.40	17.40
85	6.96	6.96	6.96	6.96	5.80	6.96	5.80	5.80	6.96	6.96
90	6.96	6.96	5.80	5.80	5.80	5.80	5.80	5.80	4.64	4.64
95	25.52	34.80	34.80	35.96	38.28	39.44	41.76	49.88	51.04	54.52
100	107.88	109.04	112.52	117.16	122.96	128.76	136.88	145.00	149.64	155.44
105	236.64	218.08	234.32	242.44	248.24	257.52	264.48	271.44	273.76	272.60
110	428.04	416.44	408.32	409.48	432.68	443.12	446.60	451.24	435.00	422.24
115	701.80	694.84	663.52	660.04	654.24	660.04	646.12	627.56	599.72	559.12
120	914.08	910.60	897.84	870.00	850.28	824.76	796.92	765.60	716.88	661.20
125	1063.72	1056.76	1042.84	1024.28	1005.72	957.00	919.88	861.88	802.72	734.28
130	1140.28	1133.32	1115.92	1090.40	1060.24	1018.48	966.28	908.28	841.00	771.40
135	1144.92	1139.12	1122.88	1096.20	1063.72	1024.28	972.08	917.56	854.92	792.28
140	1108.96	1103.16	1089.24	1066.04	1035.88	998.76	953.52	904.80	851.44	798.08
145	1050.96	1046.32	1034.72	1015.00	989.48	957.00	921.04	879.28	836.36	791.12
150	981.36	976.72	968.60	953.52	932.64	908.28	879.28	847.96	814.32	779.52
155	909.44	905.96	900.16	889.72	874.64	857.24	836.36	813.16	788.80	764.44
160	843.32	842.16	837.52	831.72	821.28	809.68	796.92	780.68	763.28	748.20
165	788.80	787.64	784.16	780.68	776.04	769.08	760.96	752.84	743.56	733.12
170	747.04	745.88	744.72	742.40	740.08	737.76	735.44	730.80	727.32	722.68
175	720.36	720.36	720.36	719.20	718.04	718.04	716.88	716.88	715.72	714.56
180	711.08	711.08	711.08	711.08	711.08	711.08	711.08	711.08	711.08	711.08

Vert. 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	1176.24	1176.24	1176.24	1176.24	1176.24	1176.24	1176.24	1176.24	1176.24
5	1141.44	1143.76	1147.24	1149.56	1153.04	1156.52	1160.00	1163.48	1166.96
10	1074.16	1088.08	1103.16	1107.80	1112.44	1118.24	1125.20	1132.16	1140.28
15	969.76	988.32	1008.04	1030.08	1055.60	1063.72	1071.84	1081.12	1092.72
20	832.88	866.52	902.48	928.00	955.84	988.32	997.60	1008.04	1021.96
25	686.72	727.32	767.92	810.84	843.32	875.80	900.16	910.60	925.68
30	539.40	585.80	629.88	675.12	720.36	751.68	786.48	795.76	810.84
35	411.80	450.08	496.48	540.56	584.64	621.76	654.24	669.32	680.92
40	309.72	345.68	381.64	419.92	457.04	489.52	519.68	538.24	548.68
45	233.16	259.84	290.00	322.48	354.96	383.96	408.32	423.40	431.52
50	175.16	194.88	218.08	242.44	267.96	290.00	308.56	321.32	325.96
55	133.40	147.32	162.40	180.96	199.52	215.76	229.68	238.96	241.28
60	100.92	110.20	121.80	134.56	147.32	158.92	170.52	176.32	178.64

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CANDELA TABULATION - (Cont.)

65	75.40	82.36	90.48	98.60	106.72	114.84	120.64	125.28	128.76
70	53.36	59.16	63.80	69.60	75.40	83.52	87.00	87.00	89.32
75	34.80	37.12	41.76	44.08	48.72	52.20	53.36	55.68	55.68
80	18.56	19.72	22.04	23.20	25.52	27.84	29.00	30.16	30.16
85	6.96	6.96	8.12	8.12	9.28	9.28	9.28	10.44	11.60
90	4.64	3.48	3.48	2.32	2.32	2.32	2.32	2.32	2.32
95	59.16	63.80	62.64	59.16	46.40	42.92	42.92	44.08	44.08
100	150.80	147.32	140.36	125.28	113.68	107.88	100.92	96.28	95.12
105	265.64	254.04	233.16	208.80	187.92	172.84	160.08	153.12	153.12
110	397.88	360.76	323.64	287.68	257.52	235.48	221.56	213.44	211.12
115	510.40	453.56	402.52	357.28	321.32	296.96	279.56	271.44	267.96
120	600.88	534.76	473.28	418.76	380.48	354.96	337.56	325.96	323.64
125	661.20	592.76	531.28	475.60	437.32	408.32	388.60	379.32	375.84
130	702.96	638.00	580.00	528.96	487.20	459.36	439.64	425.72	421.08
135	728.48	670.48	615.96	570.72	532.44	504.60	484.88	472.12	467.48
140	742.40	692.52	646.12	604.36	570.72	544.04	526.64	515.04	509.24
145	747.04	705.28	667.00	632.20	604.36	581.16	564.92	555.64	549.84
150	745.88	713.40	682.08	655.40	629.88	613.64	598.56	592.76	588.12
155	738.92	715.72	692.52	671.64	655.40	641.48	631.04	626.40	621.76
160	731.96	715.72	698.32	686.72	676.28	664.68	660.04	655.40	653.08
165	722.68	714.56	706.44	698.32	690.20	686.72	683.24	679.76	677.44
170	718.04	712.24	707.60	705.28	702.96	701.80	699.48	697.16	696.00
175	714.56	713.40	712.24	712.24	711.08	709.92	708.76	708.76	707.60
180	711.08	711.08	711.08	711.08	711.08	711.08	711.08	711.08	711.08

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	371.35	N.A.	8.10
0-30	678.14	N.A.	14.80
0-40	940.64	N.A.	20.50
0-60	1262.53	N.A.	27.50
0-80	1383.1	N.A.	30.20
0-90	1394.11	N.A.	30.40
10-90	1287.39	N.A.	28.10
20-40	569.29	N.A.	12.40
20-50	761.43	N.A.	16.60
40-70	402.41	N.A.	8.80
60-80	120.57	N.A.	2.60
70-80	40.05	N.A.	0.90
80-90	11.01	N.A.	0.20
90-110	309.32	N.A.	6.70
90-120	805.76	N.A.	17.60
90-130	1443.82	N.A.	31.50
90-150	2557.32	N.A.	55.80
90-180	3188.69	N.A.	69.60
110-180	2879.37	N.A.	62.80
0-180	4582.8	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	106.73
10-20	264.63
20-30	306.79
30-40	262.50
40-50	192.15
50-60	129.74
60-70	80.52
70-80	40.05
80-90	11.01
90-100	60.69
100-110	248.63
110-120	496.44
120-130	638.07
130-140	614.35
140-150	499.15
150-160	354.49
160-170	208.45
170-180	68.44

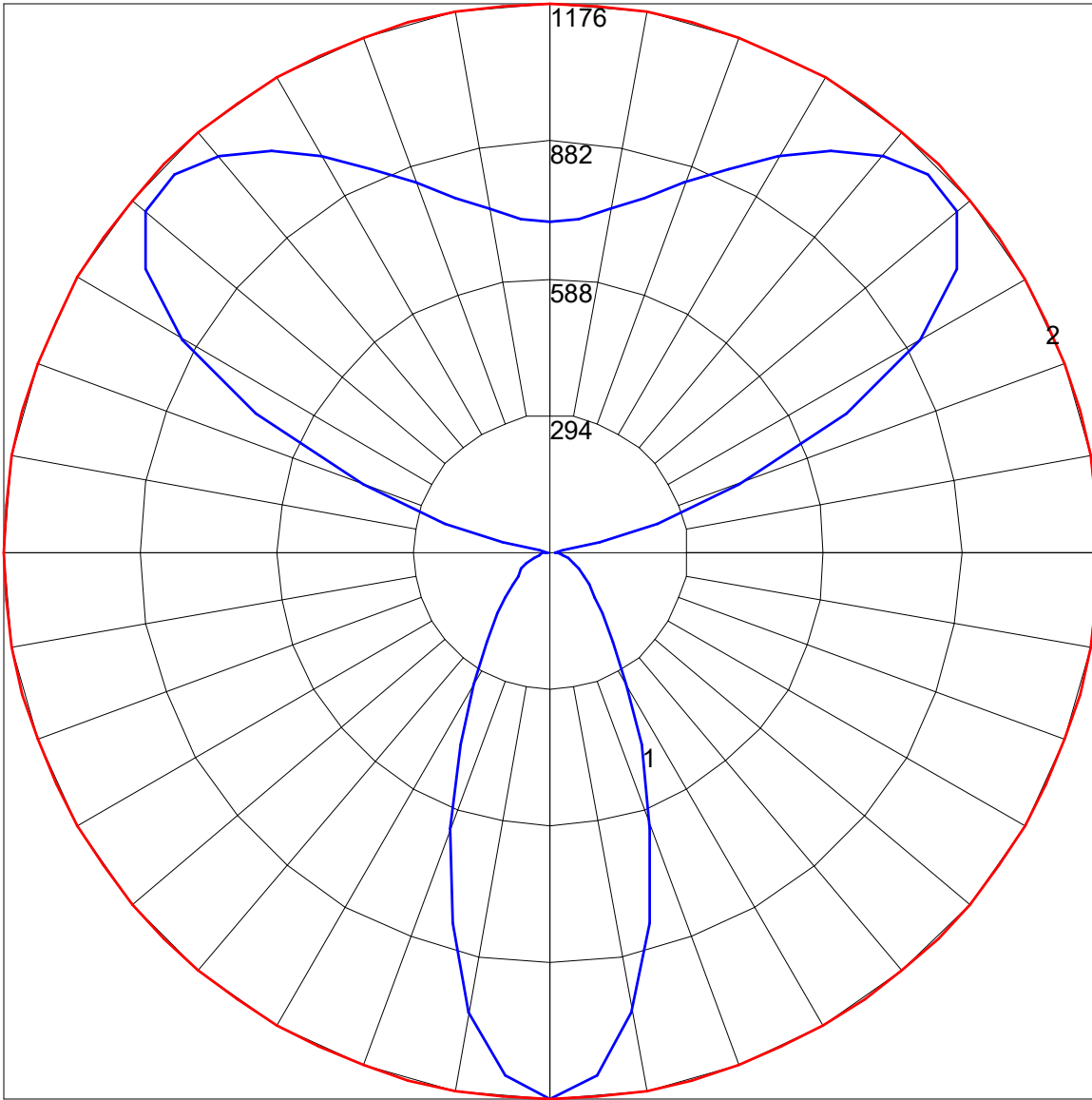
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	92	92	92	92	72	72	72	55	55	55	38	38	38	30	0
1	94	90	87	84	84	81	78	76	64	63	61	49	48	47	35	34	34	27	0
2	86	80	74	70	77	72	67	63	57	54	52	44	42	40	32	30	30	24	0
3	79	71	64	59	71	64	58	54	51	48	44	40	37	35	29	27	26	21	0
4	73	63	56	51	65	57	51	46	46	42	39	36	33	31	26	25	23	19	0
5	67	57	49	44	60	52	45	40	42	37	34	33	30	27	24	22	21	17	0
6	62	51	44	38	56	47	40	36	38	33	30	30	27	24	22	20	19	16	0
7	58	46	39	34	52	42	36	32	35	30	27	28	24	22	21	19	17	14	0
8	54	42	35	30	48	39	33	28	32	27	24	25	22	20	19	17	16	13	0
9	50	39	32	27	45	36	30	25	29	25	22	24	20	18	18	16	15	12	0
10	47	36	29	25	42	33	27	23	27	23	20	22	19	17	17	15	14	12	0

POLAR GRAPH



Maximum Candela = 1176.24 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.)