

IES Report

BoxRail[®] | 207 | Wide Batwing, up | Black Baffle, down | 80 CRI | SO

207-BX-XX-4-48-XX-XX-XX-XX-X-X-Z-SO-35-G1BB-X-AL / WH-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	79	82	83	83
Total Lumens, 4' rail length (1219mm)	3977	4103	4187	4187
Lumens per foot (305mm)	994	1026	1047	1047
Lumens per foot UP (305mm)	745	769	784	784
Lumens per foot DOWN (305mm)	249	257	262	262
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_G1BB.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L022010905 (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-G1BB
[LUMINAIRE] BoxRail LED, 48", 3500K, 80 CRI, zipper board, wide batwing lens up,
[MORE] black baffle w/clear 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	4187
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	83
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	623	1552	1348
55	521	504	724
65	405	269	352
75	261	224	278
85	258	218	356

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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	1265.56	1265.56	1265.56	1265.56	1265.56	1265.56	1265.56	1265.56	1265.56	1265.56
5	1259.76	1249.32	1240.04	1230.76	1221.48	1213.36	1204.08	1197.12	1189.00	1183.20
10	1244.68	1224.96	1206.40	1187.84	1170.44	1153.04	1137.96	1111.28	1088.08	1066.04
15	1219.16	1192.48	1166.96	1141.44	1112.44	1070.68	1031.24	994.12	959.32	926.84
20	1184.36	1147.24	1112.44	1074.16	1019.64	966.28	916.40	868.84	824.76	783.00
25	1140.28	1096.20	1053.28	988.32	921.04	856.08	795.76	738.92	680.92	626.40
30	1084.60	1034.72	976.72	895.52	816.64	742.40	667.00	593.92	527.80	469.80
35	1018.48	966.28	888.56	794.60	706.44	617.12	528.96	451.24	380.48	308.56
40	619.44	576.52	515.04	467.48	445.44	437.32	383.96	303.92	220.40	150.80
45	27.84	51.04	95.12	122.96	119.48	103.24	142.68	127.60	92.80	59.16
50	25.52	25.52	24.36	23.20	23.20	27.84	26.68	31.32	32.48	33.64
55	23.20	23.20	22.04	19.72	18.56	17.40	16.24	16.24	17.40	18.56
60	22.04	20.88	19.72	17.40	15.08	13.92	12.76	11.60	11.60	11.60
65	17.40	17.40	16.24	15.08	12.76	12.76	11.60	10.44	9.28	9.28
70	13.92	13.92	12.76	12.76	11.60	10.44	10.44	9.28	8.12	8.12
75	10.44	10.44	11.60	10.44	9.28	9.28	8.12	8.12	6.96	6.96
80	11.60	11.60	10.44	10.44	9.28	9.28	8.12	6.96	6.96	5.80
85	9.28	10.44	10.44	10.44	9.28	9.28	8.12	8.12	6.96	5.80
90	6.96	6.96	6.96	5.80	5.80	5.80	5.80	5.80	4.64	4.64
95	27.84	33.64	32.48	32.48	33.64	34.80	35.96	40.60	47.56	47.56
100	100.92	104.40	107.88	112.52	118.32	125.28	133.40	140.36	146.16	148.48
105	233.16	214.60	233.16	240.12	245.92	256.36	266.80	272.60	279.56	279.56
110	432.68	418.76	407.16	422.24	436.16	439.64	447.76	453.56	450.08	426.88
115	696.00	690.20	660.04	661.20	656.56	657.72	644.96	625.24	597.40	557.96
120	916.40	910.60	897.84	872.32	853.76	823.60	794.60	759.80	707.60	650.76
125	1054.44	1048.64	1034.72	1016.16	991.80	944.24	905.96	849.12	791.12	723.84
130	1124.04	1117.08	1100.84	1076.48	1046.32	1003.40	951.20	895.52	829.40	762.12
135	1134.48	1129.84	1112.44	1088.08	1055.60	1015.00	961.64	905.96	843.32	780.68
140	1105.48	1099.68	1084.60	1061.40	1030.08	994.12	947.72	896.68	841.00	784.16
145	1046.32	1041.68	1028.92	1010.36	983.68	951.20	914.08	871.16	825.92	779.52
150	973.24	969.76	960.48	944.24	923.36	897.84	867.68	834.04	800.40	763.28
155	896.68	893.20	887.40	875.80	860.72	842.16	820.12	796.92	771.40	745.88
160	824.76	823.60	818.96	812.00	801.56	789.96	776.04	759.80	742.40	726.16
165	765.60	764.44	760.96	757.48	752.84	745.88	737.76	728.48	719.20	707.60
170	720.36	719.20	718.04	716.88	714.56	712.24	708.76	705.28	700.64	696.00
175	692.52	692.52	691.36	691.36	690.20	690.20	689.04	689.04	687.88	686.72
180	682.08	682.08	682.08	682.08	682.08	682.08	682.08	682.08	682.08	682.08

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	1265.56	1265.56	1265.56	1265.56	1265.56	1265.56	1265.56	1265.56	1265.56
5	1177.40	1171.60	1166.96	1163.48	1161.16	1158.84	1157.68	1157.68	1157.68
10	1047.48	1030.08	1015.00	1001.08	990.64	982.52	976.72	973.24	973.24
15	897.84	871.16	847.96	829.40	814.32	801.56	792.28	786.48	787.64
20	742.40	704.12	670.48	643.80	622.92	606.68	593.92	584.64	583.48
25	577.68	533.60	494.16	461.68	436.16	415.28	400.20	389.76	387.44
30	414.12	361.92	314.36	271.44	236.64	207.64	186.76	174.00	174.00
35	240.12	177.48	145.00	119.48	99.76	83.52	69.60	61.48	58.00
40	114.84	76.56	59.16	54.52	49.88	46.40	44.08	41.76	40.60
45	55.68	47.56	41.76	38.28	34.80	32.48	30.16	29.00	29.00
50	33.64	31.32	29.00	26.68	24.36	22.04	20.88	19.72	19.72
55	19.72	19.72	18.56	17.40	16.24	15.08	13.92	12.76	12.76
60	12.76	12.76	12.76	11.60	10.44	9.28	9.28	8.12	8.12

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CANDELA TABULATION - (Cont.)

65	9.28	8.12	8.12	8.12	6.96	6.96	5.80	5.80	4.64
70	6.96	6.96	5.80	5.80	5.80	4.64	4.64	3.48	3.48
75	5.80	5.80	4.64	4.64	4.64	3.48	3.48	2.32	2.32
80	5.80	4.64	4.64	3.48	3.48	3.48	2.32	2.32	1.16
85	5.80	4.64	4.64	3.48	2.32	2.32	2.32	1.16	1.16
90	3.48	3.48	3.48	2.32	2.32	2.32	2.32	1.16	1.16
95	49.88	55.68	55.68	47.56	45.24	44.08	44.08	42.92	42.92
100	149.64	149.64	138.04	124.12	117.16	106.72	98.60	93.96	93.96
105	272.60	258.68	234.32	207.64	185.60	168.20	154.28	149.64	148.48
110	393.24	359.60	321.32	281.88	250.56	229.68	214.60	206.48	204.16
115	506.92	450.08	397.88	351.48	314.36	288.84	271.44	262.16	261.00
120	590.44	524.32	464.00	414.12	373.52	346.84	329.44	317.84	313.20
125	650.76	583.48	520.84	467.48	424.56	396.72	379.32	367.72	361.92
130	693.68	628.72	569.56	517.36	475.60	443.12	422.24	408.32	399.04
135	718.04	660.04	604.36	557.96	518.52	489.52	469.80	457.04	451.24
140	729.64	678.60	631.04	589.28	555.64	527.80	509.24	497.64	491.84
145	733.12	690.20	651.92	615.96	586.96	563.76	545.20	535.92	530.12
150	728.48	696.00	663.52	635.68	610.16	593.92	578.84	571.88	567.24
155	719.20	694.84	671.64	649.60	633.36	619.44	609.00	602.04	597.40
160	709.92	692.52	675.12	662.36	650.76	639.16	634.52	629.88	626.40
165	697.16	689.04	680.92	671.64	663.52	660.04	656.56	653.08	650.76
170	690.20	685.56	680.92	678.60	676.28	673.96	671.64	669.32	668.16
175	685.56	685.56	684.40	683.24	682.08	680.92	679.76	679.76	678.60
180	682.08	682.08	682.08	682.08	682.08	682.08	682.08	682.08	682.08

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	378.23	N.A.	9.00
0-30	688.44	N.A.	16.40
0-40	931.59	N.A.	22.30
0-60	1025.13	N.A.	24.50
0-80	1043.03	N.A.	24.90
0-90	1049.31	N.A.	25.10
10-90	938.60	N.A.	22.40
20-40	553.36	N.A.	13.20
20-50	630.09	N.A.	15.00
40-70	103.95	N.A.	2.50
60-80	17.90	N.A.	0.40
70-80	7.49	N.A.	0.20
80-90	6.27	N.A.	0.10
90-110	305.32	N.A.	7.30
90-120	798.50	N.A.	19.10
90-130	1427.55	N.A.	34.10
90-150	2524.13	N.A.	60.30
90-180	3137.47	N.A.	74.90
110-180	2832.15	N.A.	67.60
0-180	4186.78	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	110.71
10-20	267.52
20-30	310.21
30-40	243.15
40-50	76.73
50-60	16.81
60-70	10.41
70-80	7.49
80-90	6.27
90-100	57.58
100-110	247.74
110-120	493.18
120-130	629.05
130-140	605.11
140-150	491.48
150-160	346.05
160-170	201.51
170-180	65.78

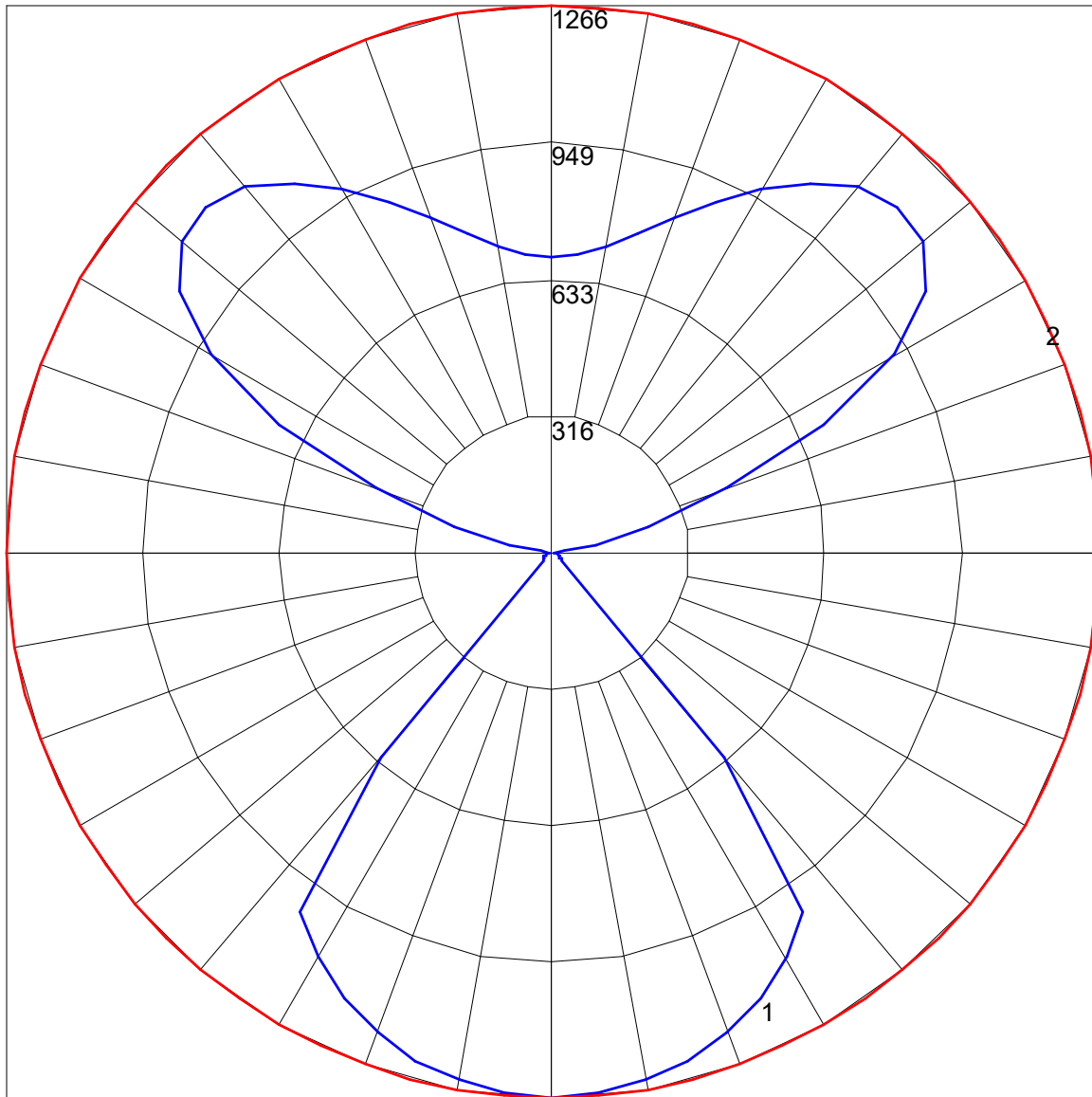
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	101	101	101	101	101	90	90	90	90	69	69	69	51	51	51	33	33	33	25
1	93	89	86	83	83	83	80	77	75	62	60	59	46	45	44	31	30	30	23
2	86	80	74	70	70	77	71	67	63	56	53	51	42	40	39	29	28	27	21
3	79	71	65	60	60	71	64	59	54	51	47	44	38	36	34	27	26	25	20
4	73	64	57	52	52	65	58	52	47	46	42	39	35	33	31	25	24	23	18
5	68	58	50	45	45	60	52	46	42	42	38	34	32	30	27	23	22	21	17
6	63	52	45	40	40	56	47	41	37	38	34	31	30	27	25	22	20	19	16
7	58	47	40	36	36	52	43	37	33	35	31	28	27	25	23	20	19	18	15
8	54	43	37	32	32	49	40	34	30	32	28	25	25	23	21	19	17	16	14
9	51	40	33	29	29	46	36	31	27	30	26	23	24	21	19	18	16	15	13
10	48	37	30	26	26	43	34	28	24	28	24	21	22	19	18	17	15	14	12

POLAR GRAPH



Maximum Candela = 1265.56 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.)