

IES Report

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

207-BX-XX-4-48-XX-XX-XX-XX-X-X-Z-SO-35-G1WB-X-AL / WH-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	99	102	104	104
Total Lumens, 4' rail length (1219mm)	4965	5122	5226	5226
Lumens per foot (305mm)	1241	1280	1307	1307
Lumens per foot UP (305mm)	750	774	790	790
Lumens per foot DOWN (305mm)	491	507	517	517
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_G1WB.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L022010909 (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-G1WB
[LUMINAIRE] BoxRail LED, 48", 3500K, 80 CRI, zipper board, wide batwing lens up,
[MORE] white baffle w/clear lens down, standard output
[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5226
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	103
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	4566	9587	13695
55	3572	5509	11128
65	2595	3097	8799
75	782	1197	5836
85	323	348	2135

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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	1574.12	1574.12	1574.12	1574.12	1574.12	1574.12	1574.12	1574.12	1574.12	1574.12
5	1563.68	1557.88	1552.08	1546.28	1541.64	1535.84	1531.20	1526.56	1523.08	1519.60
10	1545.12	1533.52	1521.92	1511.48	1501.04	1491.76	1482.48	1462.76	1444.20	1427.96
15	1516.12	1499.88	1483.64	1468.56	1451.16	1418.68	1388.52	1360.68	1334.00	1309.64
20	1469.72	1447.68	1427.96	1403.60	1361.84	1322.40	1284.12	1247.00	1214.52	1180.88
25	1410.56	1385.04	1360.68	1313.12	1263.24	1214.52	1165.80	1121.72	1073.00	1027.76
30	1344.44	1314.28	1277.16	1215.68	1156.52	1098.52	1038.20	976.72	918.72	860.72
35	1245.84	1211.04	1158.84	1092.72	1026.60	962.80	897.84	822.44	754.00	686.72
40	737.76	718.04	696.00	692.52	713.40	749.36	712.24	640.32	576.52	509.24
45	204.16	229.68	278.40	320.16	330.60	332.92	406.00	400.20	389.76	365.40
50	176.32	180.96	190.24	200.68	213.44	234.32	250.56	266.80	272.60	270.28
55	158.92	161.24	165.88	172.84	178.64	187.92	196.04	198.36	200.68	203.00
60	142.68	142.68	141.52	139.20	139.20	142.68	143.84	146.16	148.48	150.80
65	111.36	109.04	102.08	99.76	98.60	98.60	99.76	100.92	103.24	106.72
70	64.96	62.64	60.32	60.32	61.48	61.48	61.48	62.64	64.96	68.44
75	31.32	30.16	33.64	32.48	32.48	32.48	32.48	32.48	34.80	37.12
80	19.72	20.88	19.72	19.72	18.56	18.56	17.40	17.40	17.40	17.40
85	11.60	12.76	12.76	12.76	12.76	11.60	11.60	10.44	10.44	9.28
90	4.64	4.64	4.64	4.64	4.64	4.64	4.64	4.64	4.64	4.64
95	25.52	32.48	31.32	32.48	33.64	35.96	39.44	48.72	48.72	53.36
100	104.40	109.04	111.36	117.16	124.12	131.08	138.04	147.32	155.44	155.44
105	243.60	227.36	243.60	250.56	256.36	270.28	278.40	285.36	294.64	291.16
110	448.92	437.32	432.68	437.32	460.52	465.16	466.32	469.80	462.84	437.32
115	720.36	716.88	690.20	679.76	677.44	676.28	662.36	639.16	607.84	567.24
120	930.32	924.52	911.76	888.56	870.00	839.84	808.52	773.72	716.88	657.72
125	1070.68	1063.72	1049.80	1030.08	1005.72	959.32	918.72	857.24	795.76	726.16
130	1135.64	1128.68	1112.44	1085.76	1054.44	1012.68	959.32	900.16	832.88	762.12
135	1139.12	1133.32	1117.08	1090.40	1056.76	1016.16	963.96	909.44	845.64	781.84
140	1103.16	1097.36	1082.28	1059.08	1027.76	990.64	944.24	894.36	841.00	785.32
145	1042.84	1037.04	1025.44	1005.72	979.04	946.56	910.60	867.68	822.44	777.20
150	969.76	965.12	955.84	940.76	919.88	894.36	864.20	831.72	798.08	759.80
155	894.36	890.88	883.92	872.32	858.40	838.68	816.64	793.44	767.92	742.40
160	822.44	821.28	816.64	809.68	799.24	787.64	773.72	757.48	740.08	723.84
165	763.28	762.12	759.80	756.32	750.52	743.56	735.44	727.32	718.04	706.44
170	719.20	719.20	718.04	715.72	713.40	711.08	708.76	705.28	700.64	696.00
175	693.68	693.68	692.52	692.52	691.36	691.36	690.20	690.20	689.04	687.88
180	684.40	684.40	684.40	684.40	684.40	684.40	684.40	684.40	684.40	684.40

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	1574.12	1574.12	1574.12	1574.12	1574.12	1574.12	1574.12	1574.12	1574.12
5	1516.12	1512.64	1510.32	1509.16	1506.84	1506.84	1505.68	1505.68	1506.84
10	1412.88	1400.12	1388.52	1378.08	1369.96	1363.00	1358.36	1356.04	1357.20
15	1285.28	1264.40	1244.68	1229.60	1218.00	1207.56	1201.76	1198.28	1199.44
20	1147.24	1113.60	1085.76	1060.24	1040.52	1025.44	1015.00	1008.04	1009.20
25	987.16	946.56	908.28	876.96	850.28	830.56	816.64	805.04	805.04
30	808.52	762.12	719.20	680.92	649.60	622.92	603.20	591.60	590.44
35	624.08	569.56	528.96	496.48	470.96	453.56	440.80	431.52	428.04
40	460.52	411.80	387.44	377.00	370.04	365.40	360.76	356.12	354.96
45	348.00	335.24	324.80	315.52	308.56	303.92	299.28	295.80	294.64
50	271.44	266.80	261.00	256.36	251.72	247.08	244.76	242.44	241.28
55	205.32	204.16	205.32	204.16	201.84	199.52	197.20	196.04	196.04
60	153.12	154.28	155.44	156.60	156.60	155.44	154.28	153.12	153.12

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CANDELA TABULATION - (Cont.)

65	109.04	111.36	113.68	114.84	114.84	116.00	114.84	114.84	116.00
70	70.76	75.40	78.88	77.72	78.88	81.20	81.20	83.52	88.16
75	39.44	41.76	45.24	46.40	46.40	48.72	48.72	48.72	48.72
80	17.40	18.56	19.72	20.88	22.04	22.04	23.20	23.20	23.20
85	9.28	9.28	8.12	8.12	6.96	6.96	6.96	6.96	6.96
90	3.48	3.48	3.48	2.32	2.32	2.32	2.32	2.32	1.16
95	53.36	58.00	58.00	49.88	44.08	44.08	45.24	42.92	42.92
100	154.28	151.96	141.52	126.44	117.16	107.88	98.60	96.28	95.12
105	283.04	264.48	240.12	209.96	185.60	168.20	155.44	149.64	148.48
110	400.20	364.24	323.64	281.88	250.56	229.68	214.60	206.48	206.48
115	513.88	453.56	396.72	350.32	314.36	288.84	271.44	262.16	261.00
120	592.76	524.32	462.84	410.64	371.20	344.52	328.28	316.68	312.04
125	650.76	581.16	518.52	462.84	421.08	394.40	378.16	366.56	360.76
130	692.52	625.24	566.08	513.88	470.96	443.12	421.08	406.00	396.72
135	716.88	656.56	602.04	554.48	515.04	486.04	467.48	455.88	450.08
140	729.64	676.28	628.72	585.80	552.16	525.48	506.92	496.48	490.68
145	730.80	687.88	648.44	612.48	583.48	560.28	544.04	534.76	530.12
150	725.00	692.52	660.04	633.36	607.84	591.60	577.68	570.72	567.24
155	716.88	692.52	669.32	647.28	632.20	618.28	607.84	603.20	598.56
160	707.60	690.20	673.96	662.36	650.76	639.16	635.68	631.04	628.72
165	696.00	687.88	679.76	671.64	663.52	660.04	657.72	654.24	651.92
170	691.36	685.56	680.92	678.60	677.44	675.12	672.80	671.64	670.48
175	687.88	686.72	685.56	685.56	684.40	683.24	683.24	682.08	680.92
180	684.40	684.40	684.40	684.40	684.40	684.40	684.40	684.40	684.40

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	515.55	N.A.	9.90
0-30	1000.88	N.A.	19.20
0-40	1458.28	N.A.	27.90
0-60	1904.43	N.A.	36.40
0-80	2056.4	N.A.	39.30
0-90	2068.12	N.A.	39.60
10-90	1925.15	N.A.	36.80
20-40	942.72	N.A.	18.00
20-50	1216.02	N.A.	23.30
40-70	553.75	N.A.	10.60
60-80	151.96	N.A.	2.90
70-80	44.37	N.A.	0.80
80-90	11.73	N.A.	0.20
90-110	314.96	N.A.	6.00
90-120	817.54	N.A.	15.60
90-130	1450.98	N.A.	27.80
90-150	2546.06	N.A.	48.70
90-180	3158.24	N.A.	60.40
110-180	2843.28	N.A.	54.40
0-180	5226.36	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	142.97
10-20	372.58
20-30	485.32
30-40	457.40
40-50	273.30
50-60	172.86
60-70	107.59
70-80	44.37
80-90	11.73
90-100	59.29
100-110	255.67
110-120	502.58
120-130	633.44
130-140	605.37
140-150	489.71
150-160	345.01
160-170	201.28
170-180	65.90

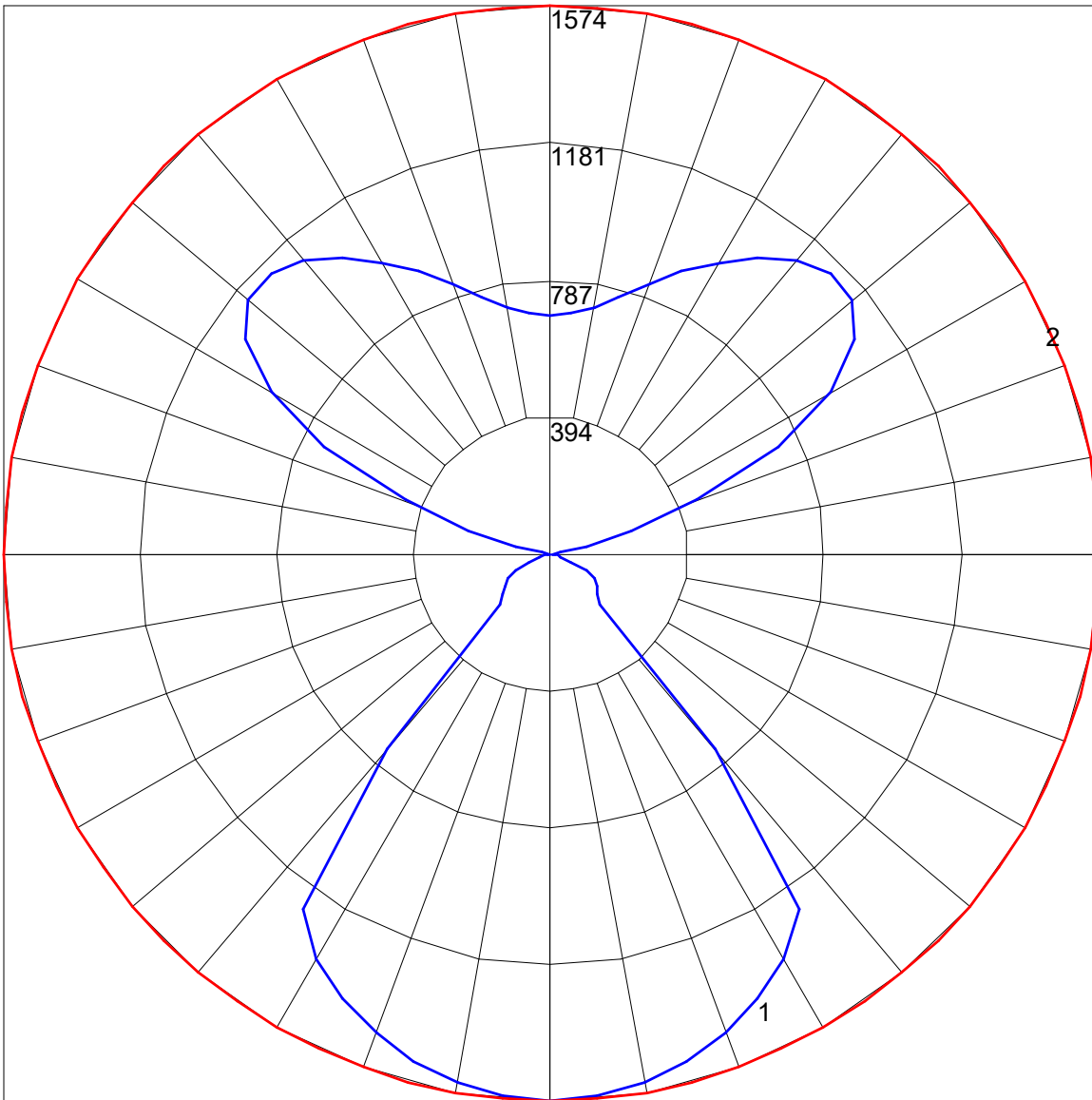
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	105	105	105	105	95	95	95	95	78	78	78	61	61	61	47	47	47	40
1	96	93	89	86	88	85	82	79	69	67	66	56	54	53	43	42	41	35
2	89	82	77	72	81	75	71	67	62	59	56	50	48	46	39	38	37	32
3	82	73	67	62	74	67	62	57	56	52	49	45	43	40	36	34	33	28
4	75	66	59	53	69	60	54	50	51	46	43	41	38	36	33	31	29	25
5	70	59	52	46	64	55	48	43	46	41	38	38	34	32	30	28	26	23
6	65	54	46	41	59	50	43	38	42	37	33	35	31	29	28	26	24	21
7	60	49	41	36	55	45	39	34	38	33	30	32	28	26	26	23	22	19
8	56	45	37	33	51	41	35	31	35	30	27	29	26	23	24	22	20	17
9	52	41	34	29	48	38	32	28	33	28	25	27	24	21	22	20	18	16
10	49	38	31	27	45	35	29	25	30	26	22	26	22	20	21	19	17	15

POLAR GRAPH



Maximum Candela = 1574.12 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.)