

## IES Report

# BoxRail® | 207 | White Baffle, down | 80 CRI | SO

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

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	78	81	82	82
Total Lumens, 4' rail length (1219mm)	1965	2027	2068	2068
Lumens per foot (305mm)	491	507	517	517
Input Power (W), 4' rail length (1219mm)	25.3	25.3	25.3	25.3
Watts per foot (305mm)	6.4	6.4	6.4	6.4
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\_WB.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-WB  
[LUMINAIRE] BoxRail LED, 48", 3500K, 80 CRI, zipper board,  
[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	2068
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	82
Total Luminaire Watts	25.26
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	0.78
Spacing Criterion (Diagonal)	0.98
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>
<b>0</b>	1574.12	1574.12	1574.12	1574.12	1574.12	1574.12	1574.12	1574.12	1574.12	1574.12
<b>5</b>	1563.68	1557.88	1552.08	1546.28	1541.64	1535.84	1531.20	1526.56	1523.08	1519.60
<b>10</b>	1545.12	1533.52	1521.92	1511.48	1501.04	1491.76	1482.48	1462.76	1444.20	1427.96
<b>15</b>	1516.12	1499.88	1483.64	1468.56	1451.16	1418.68	1388.52	1360.68	1334.00	1309.64
<b>20</b>	1469.72	1447.68	1427.96	1403.60	1361.84	1322.40	1284.12	1247.00	1214.52	1180.88
<b>25</b>	1410.56	1385.04	1360.68	1313.12	1263.24	1214.52	1165.80	1121.72	1073.00	1027.76
<b>30</b>	1344.44	1314.28	1277.16	1215.68	1156.52	1098.52	1038.20	976.72	918.72	860.72
<b>35</b>	1245.84	1211.04	1158.84	1092.72	1026.60	962.80	897.84	822.44	754.00	686.72
<b>40</b>	737.76	718.04	696.00	692.52	713.40	749.36	712.24	640.32	576.52	509.24
<b>45</b>	204.16	229.68	278.40	320.16	330.60	332.92	406.00	400.20	389.76	365.40
<b>50</b>	176.32	180.96	190.24	200.68	213.44	234.32	250.56	266.80	272.60	270.28
<b>55</b>	158.92	161.24	165.88	172.84	178.64	187.92	196.04	198.36	200.68	203.00
<b>60</b>	142.68	142.68	141.52	139.20	139.20	142.68	143.84	146.16	148.48	150.80
<b>65</b>	111.36	109.04	102.08	99.76	98.60	98.60	99.76	100.92	103.24	106.72
<b>70</b>	64.96	62.64	60.32	60.32	61.48	61.48	61.48	62.64	64.96	68.44
<b>75</b>	31.32	30.16	33.64	32.48	32.48	32.48	32.48	32.48	34.80	37.12
<b>80</b>	19.72	20.88	19.72	19.72	18.56	18.56	17.40	17.40	17.40	17.40
<b>85</b>	11.60	12.76	12.76	12.76	12.76	11.60	11.60	10.44	10.44	9.28
<b>90</b>	4.64	4.64	4.64	4.64	4.64	4.64	4.64	4.64	4.64	4.64

**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>
<b>0</b>	1574.12	1574.12	1574.12	1574.12	1574.12	1574.12	1574.12	1574.12	1574.12
<b>5</b>	1516.12	1512.64	1510.32	1509.16	1506.84	1506.84	1505.68	1505.68	1506.84
<b>10</b>	1412.88	1400.12	1388.52	1378.08	1369.96	1363.00	1358.36	1356.04	1357.20
<b>15</b>	1285.28	1264.40	1244.68	1229.60	1218.00	1207.56	1201.76	1198.28	1199.44
<b>20</b>	1147.24	1113.60	1085.76	1060.24	1040.52	1025.44	1015.00	1008.04	1009.20
<b>25</b>	987.16	946.56	908.28	876.96	850.28	830.56	816.64	805.04	805.04
<b>30</b>	808.52	762.12	719.20	680.92	649.60	622.92	603.20	591.60	590.44
<b>35</b>	624.08	569.56	528.96	496.48	470.96	453.56	440.80	431.52	428.04
<b>40</b>	460.52	411.80	387.44	377.00	370.04	365.40	360.76	356.12	354.96
<b>45</b>	348.00	335.24	324.80	315.52	308.56	303.92	299.28	295.80	294.64
<b>50</b>	271.44	266.80	261.00	256.36	251.72	247.08	244.76	242.44	241.28
<b>55</b>	205.32	204.16	205.32	204.16	201.84	199.52	197.20	196.04	196.04
<b>60</b>	153.12	154.28	155.44	156.60	156.60	155.44	154.28	153.12	153.12
<b>65</b>	109.04	111.36	113.68	114.84	114.84	116.00	114.84	114.84	116.00
<b>70</b>	70.76	75.40	78.88	77.72	78.88	81.20	81.20	83.52	88.16
<b>75</b>	39.44	41.76	45.24	46.40	46.40	48.72	48.72	48.72	48.72
<b>80</b>	17.40	18.56	19.72	20.88	22.04	22.04	23.20	23.20	23.20
<b>85</b>	9.28	9.28	8.12	8.12	6.96	6.96	6.96	6.96	6.96
<b>90</b>	3.48	3.48	3.48	2.32	2.32	2.32	2.32	2.32	1.16

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	515.55	N.A.	24.90
0-30	1000.88	N.A.	48.40
0-40	1458.28	N.A.	70.50
0-60	1904.43	N.A.	92.10
0-80	2056.4	N.A.	99.40
0-90	2068.12	N.A.	100.00
10-90	1925.15	N.A.	93.10
20-40	942.72	N.A.	45.60
20-50	1216.02	N.A.	58.80
40-70	553.75	N.A.	26.80
60-80	151.96	N.A.	7.30
70-80	44.37	N.A.	2.10
80-90	11.73	N.A.	0.60
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	2068.12	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	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

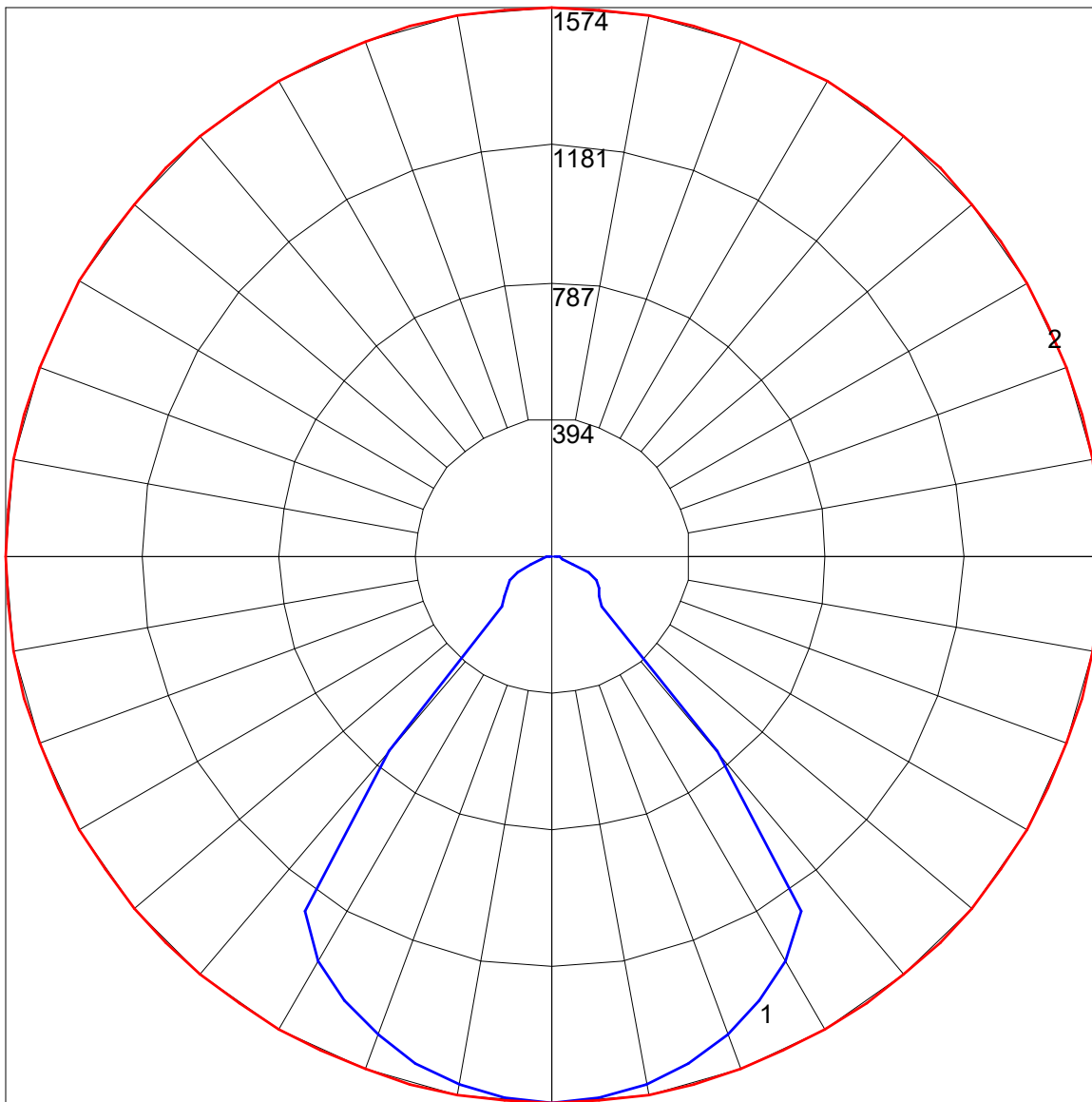
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	90
2	104	98	93	88	102	96	91	87	93	89	85	89	86	83	87	84	82	80
3	97	89	82	77	95	87	81	77	85	80	75	82	78	74	80	76	73	71
4	91	81	74	69	89	80	73	68	78	72	67	75	71	67	73	69	66	64
5	85	74	67	62	83	73	66	61	71	65	61	70	64	60	68	63	60	58
6	79	68	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	42	41
10	63	51	44	40	62	51	44	40	50	44	40	49	43	40	48	43	39	38

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.)