

## 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-BL-X**

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	64	66	68	68
Total Lumens, 4' rail length (1219mm)	1608	1659	1693	1693
Lumens per foot (305mm)	402	415	423	423
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\_BL.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L022010916 (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-BL

[LUMINAIRE] BoxRail LED, 48", 3500K, 80 CRI, zipper board,

[MORE] white baffle w/clear lens down, standard output, black anodized finish

[TEST PROCEDURE] IESNA:LM-79-08

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1693
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	67
Total Luminaire Watts	25.26
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	0.72
Spacing Criterion (Diagonal)	0.94
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	2828	6970	9921
55	1773	3904	7902
65	1541	1986	5984
75	348	673	3891
85	129	174	1423

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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>	1441.88	1441.88	1441.88	1441.88	1441.88	1441.88	1441.88	1441.88	1441.88	1441.88
<b>5</b>	1438.40	1430.28	1423.32	1416.36	1409.40	1402.44	1396.64	1389.68	1385.04	1379.24
<b>10</b>	1423.32	1409.40	1395.48	1381.56	1368.80	1356.04	1344.44	1322.40	1301.52	1282.96
<b>15</b>	1396.64	1375.76	1354.88	1335.16	1313.12	1279.48	1247.00	1216.84	1187.84	1162.32
<b>20</b>	1357.20	1329.36	1303.84	1273.68	1227.28	1184.36	1142.60	1103.16	1066.04	1032.40
<b>25</b>	1308.48	1276.00	1245.84	1191.32	1134.48	1081.12	1031.24	984.84	930.32	879.28
<b>30</b>	1243.52	1206.40	1162.32	1093.88	1028.92	967.44	905.96	841.00	779.52	723.84
<b>35</b>	1154.20	1111.28	1049.80	974.40	902.48	830.56	758.64	687.88	622.92	556.80
<b>40</b>	679.76	661.20	636.84	626.40	627.56	631.04	577.68	512.72	452.40	387.44
<b>45</b>	126.44	151.96	204.16	255.20	276.08	279.56	316.68	315.52	293.48	265.64
<b>50</b>	87.00	95.12	109.04	122.96	138.04	164.72	183.28	196.04	198.36	196.04
<b>55</b>	78.88	84.68	93.96	104.40	114.84	127.60	136.88	140.36	142.68	143.84
<b>60</b>	74.24	76.56	80.04	83.52	88.16	92.80	96.28	97.44	99.76	103.24
<b>65</b>	66.12	63.80	60.32	59.16	60.32	61.48	62.64	64.96	66.12	68.44
<b>70</b>	35.96	34.80	34.80	34.80	34.80	35.96	35.96	37.12	39.44	41.76
<b>75</b>	13.92	13.92	15.08	15.08	15.08	16.24	16.24	17.40	19.72	20.88
<b>80</b>	5.80	6.96	5.80	6.96	6.96	6.96	6.96	6.96	6.96	8.12
<b>85</b>	4.64	4.64	4.64	4.64	4.64	4.64	4.64	4.64	4.64	4.64
<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>	1441.88	1441.88	1441.88	1441.88	1441.88	1441.88	1441.88	1441.88	1441.88
<b>5</b>	1374.60	1369.96	1366.48	1363.00	1360.68	1359.52	1357.20	1357.20	1357.20
<b>10</b>	1266.72	1251.64	1238.88	1227.28	1216.84	1208.72	1204.08	1199.44	1199.44
<b>15</b>	1137.96	1115.92	1096.20	1079.96	1067.20	1055.60	1046.32	1040.52	1039.36
<b>20</b>	997.60	965.12	937.28	911.76	890.88	875.80	860.72	849.12	846.80
<b>25</b>	832.88	794.60	760.96	731.96	706.44	686.72	672.80	662.36	661.20
<b>30</b>	672.80	625.24	577.68	535.92	502.28	473.28	451.24	436.16	435.00
<b>35</b>	489.52	428.04	396.72	373.52	354.96	338.72	328.28	322.48	321.32
<b>40</b>	346.84	309.72	293.48	284.20	276.08	270.28	265.64	263.32	261.00
<b>45</b>	254.04	243.60	236.64	229.68	223.88	220.40	216.92	214.60	213.44
<b>50</b>	194.88	190.24	185.60	183.28	180.96	177.48	175.16	174.00	174.00
<b>55</b>	145.00	143.84	142.68	142.68	141.52	140.36	139.20	138.04	139.20
<b>60</b>	106.72	105.56	107.88	107.88	107.88	107.88	107.88	106.72	106.72
<b>65</b>	71.92	73.08	77.72	78.88	78.88	78.88	80.04	80.04	78.88
<b>70</b>	44.08	46.40	48.72	51.04	53.36	53.36	54.52	54.52	54.52
<b>75</b>	22.04	24.36	26.68	29.00	31.32	31.32	32.48	33.64	32.48
<b>80</b>	9.28	9.28	10.44	11.60	12.76	13.92	15.08	15.08	15.08
<b>85</b>	4.64	3.48	3.48	3.48	3.48	3.48	3.48	4.64	4.64
<b>90</b>	3.48	3.48	3.48	2.32	2.32	2.32	1.16	1.16	2.32

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	461.58	N.A.	27.30
0-30	883.06	N.A.	52.20
0-40	1265.88	N.A.	74.80
0-60	1591.65	N.A.	94.00
0-80	1686.94	N.A.	99.70
0-90	1692.82	N.A.	100.00
10-90	1563.18	N.A.	92.30
20-40	804.30	N.A.	47.50
20-50	1013.09	N.A.	59.80
40-70	395.33	N.A.	23.40
60-80	95.30	N.A.	5.60
70-80	25.73	N.A.	1.50
80-90	5.88	N.A.	0.30
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	1692.82	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	129.65
10-20	331.93
20-30	421.48
30-40	382.82
40-50	208.79
50-60	116.98
60-70	69.56
70-80	25.73
80-90	5.88
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

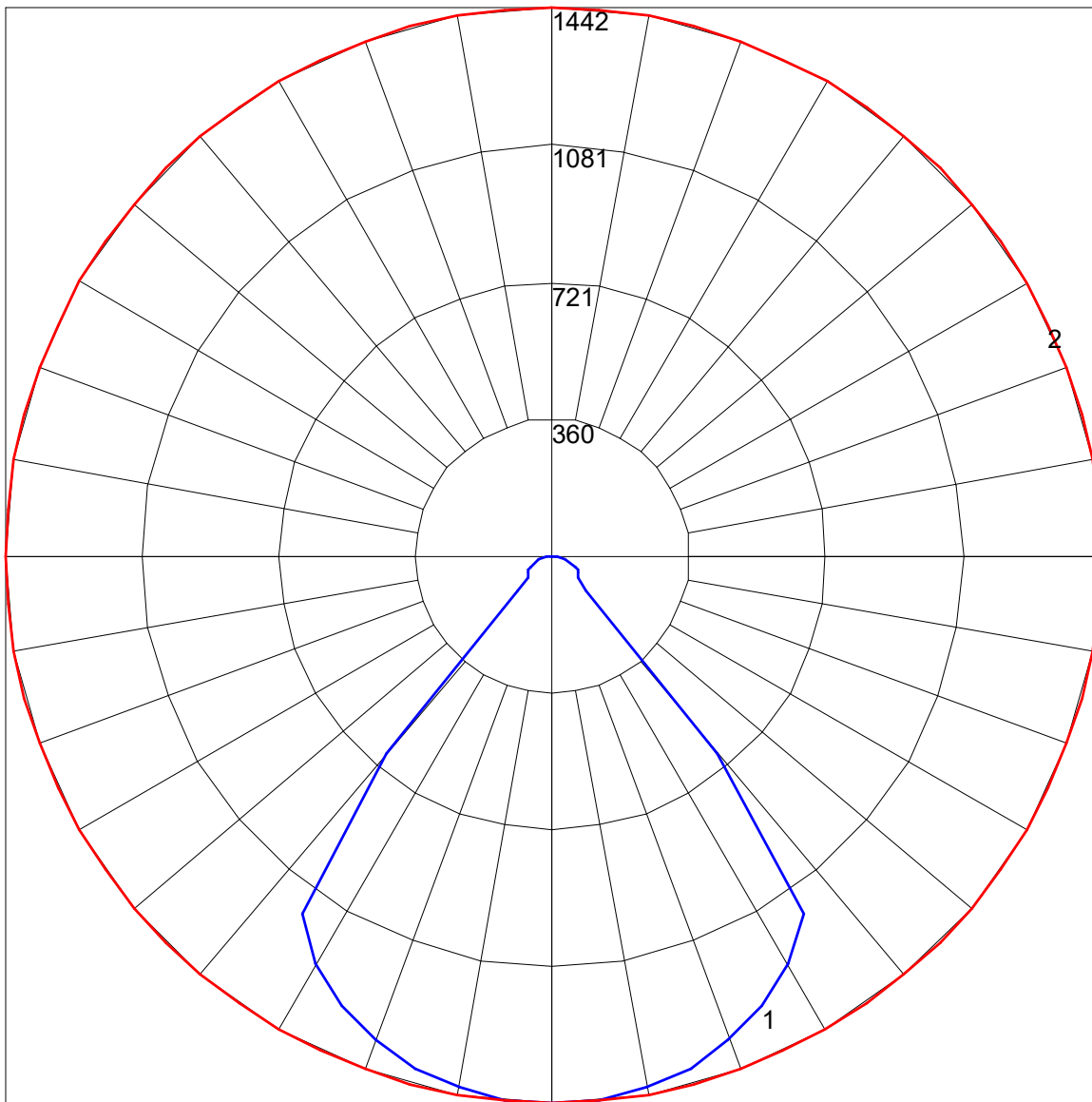
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	109	106	103	109	106	104	101	102	100	98	99	97	95	95	94	92	90
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	73
4	92	83	76	71	90	82	75	71	79	74	70	77	73	69	75	71	68	66
5	86	76	69	64	84	75	69	64	73	68	63	72	67	63	70	66	62	60
6	81	70	63	58	79	70	63	58	68	62	58	67	61	57	65	60	57	55
7	76	65	58	53	75	65	58	53	63	57	53	62	57	53	61	56	52	51
8	72	61	54	49	71	60	54	49	59	53	49	58	53	49	57	52	48	47
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43
10	64	53	47	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40

POLAR GRAPH



Maximum Candela = 1441.88 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.)