

## IES Report

# BoxRail® | 207 | Black Baffle, down | 80 CRI | LO

207-BX-XX-4-48-XX-XX-XX-XX-X-X-Z-LO-35-BB-X-AL / WH-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	35	36	37	37
Total Lumens, 4' rail length (1219mm)	498	514	525	525
Lumens per foot (305mm)	125	129	131	131
Input Power (W), 4' rail length (1219mm)	14.4	14.4	14.4	14.4
Watts per foot (305mm)	3.6	3.6	3.6	3.6
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\_LO\_35\_BB.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-LO-35-BB

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

[MORE] black baffle w/clear lens down, low 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	525
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	36
Total Luminaire Watts	14.38
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	0.60
Spacing Criterion (Diagonal)	0.82
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	311	776	674
55	261	252	362
65	203	135	176
75	130	112	139
85	129	109	178

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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>	632.78	632.78	632.78	632.78	632.78	632.78	632.78	632.78	632.78	632.78
<b>5</b>	629.88	624.66	620.02	615.38	610.74	606.68	602.04	598.56	594.50	591.60
<b>10</b>	622.34	612.48	603.20	593.92	585.22	576.52	568.98	555.64	544.04	533.02
<b>15</b>	609.58	596.24	583.48	570.72	556.22	535.34	515.62	497.06	479.66	463.42
<b>20</b>	592.18	573.62	556.22	537.08	509.82	483.14	458.20	434.42	412.38	391.50
<b>25</b>	570.14	548.10	526.64	494.16	460.52	428.04	397.88	369.46	340.46	313.20
<b>30</b>	542.30	517.36	488.36	447.76	408.32	371.20	333.50	296.96	263.90	234.90
<b>35</b>	509.24	483.14	444.28	397.30	353.22	308.56	264.48	225.62	190.24	154.28
<b>40</b>	309.72	288.26	257.52	233.74	222.72	218.66	191.98	151.96	110.20	75.40
<b>45</b>	13.92	25.52	47.56	61.48	59.74	51.62	71.34	63.80	46.40	29.58
<b>50</b>	12.76	12.76	12.18	11.60	11.60	13.92	13.34	15.66	16.24	16.82
<b>55</b>	11.60	11.60	11.02	9.86	9.28	8.70	8.12	8.12	8.70	9.28
<b>60</b>	11.02	10.44	9.86	8.70	7.54	6.96	6.38	5.80	5.80	5.80
<b>65</b>	8.70	8.70	8.12	7.54	6.38	6.38	5.80	5.22	4.64	4.64
<b>70</b>	6.96	6.96	6.38	6.38	5.80	5.22	5.22	4.64	4.06	4.06
<b>75</b>	5.22	5.22	5.80	5.22	4.64	4.64	4.06	4.06	3.48	3.48
<b>80</b>	5.80	5.80	5.22	5.22	4.64	4.64	4.06	3.48	3.48	2.90
<b>85</b>	4.64	5.22	5.22	5.22	4.64	4.64	4.06	4.06	3.48	2.90
<b>90</b>	3.48	3.48	3.48	2.90	2.90	2.90	2.90	2.90	2.32	2.32

**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>	632.78	632.78	632.78	632.78	632.78	632.78	632.78	632.78	632.78
<b>5</b>	588.70	585.80	583.48	581.74	580.58	579.42	578.84	578.84	578.84
<b>10</b>	523.74	515.04	507.50	500.54	495.32	491.26	488.36	486.62	486.62
<b>15</b>	448.92	435.58	423.98	414.70	407.16	400.78	396.14	393.24	393.82
<b>20</b>	371.20	352.06	335.24	321.90	311.46	303.34	296.96	292.32	291.74
<b>25</b>	288.84	266.80	247.08	230.84	218.08	207.64	200.10	194.88	193.72
<b>30</b>	207.06	180.96	157.18	135.72	118.32	103.82	93.38	87.00	87.00
<b>35</b>	120.06	88.74	72.50	59.74	49.88	41.76	34.80	30.74	29.00
<b>40</b>	57.42	38.28	29.58	27.26	24.94	23.20	22.04	20.88	20.30
<b>45</b>	27.84	23.78	20.88	19.14	17.40	16.24	15.08	14.50	14.50
<b>50</b>	16.82	15.66	14.50	13.34	12.18	11.02	10.44	9.86	9.86
<b>55</b>	9.86	9.86	9.28	8.70	8.12	7.54	6.96	6.38	6.38
<b>60</b>	6.38	6.38	6.38	5.80	5.22	4.64	4.64	4.06	4.06
<b>65</b>	4.64	4.06	4.06	4.06	3.48	3.48	2.90	2.90	2.32
<b>70</b>	3.48	3.48	2.90	2.90	2.90	2.32	2.32	1.74	1.74
<b>75</b>	2.90	2.90	2.32	2.32	2.32	1.74	1.74	1.16	1.16
<b>80</b>	2.90	2.32	2.32	1.74	1.74	1.74	1.16	1.16	0.58
<b>85</b>	2.90	2.32	2.32	1.74	1.16	1.16	1.16	0.58	0.58
<b>90</b>	1.74	1.74	1.74	1.16	1.16	1.16	1.16	0.58	0.58

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	189.12	N.A.	36.00
0-30	344.22	N.A.	65.60
0-40	465.79	N.A.	88.80
0-60	512.57	N.A.	97.70
0-80	521.52	N.A.	99.40
0-90	524.65	N.A.	100.00
10-90	469.30	N.A.	89.40
20-40	276.68	N.A.	52.70
20-50	315.04	N.A.	60.00
40-70	51.98	N.A.	9.90
60-80	8.95	N.A.	1.70
70-80	3.75	N.A.	0.70
80-90	3.14	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	524.65	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	55.35
10-20	133.76
20-30	155.10
30-40	121.57
40-50	38.36
50-60	8.41
60-70	5.21
70-80	3.75
80-90	3.14
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

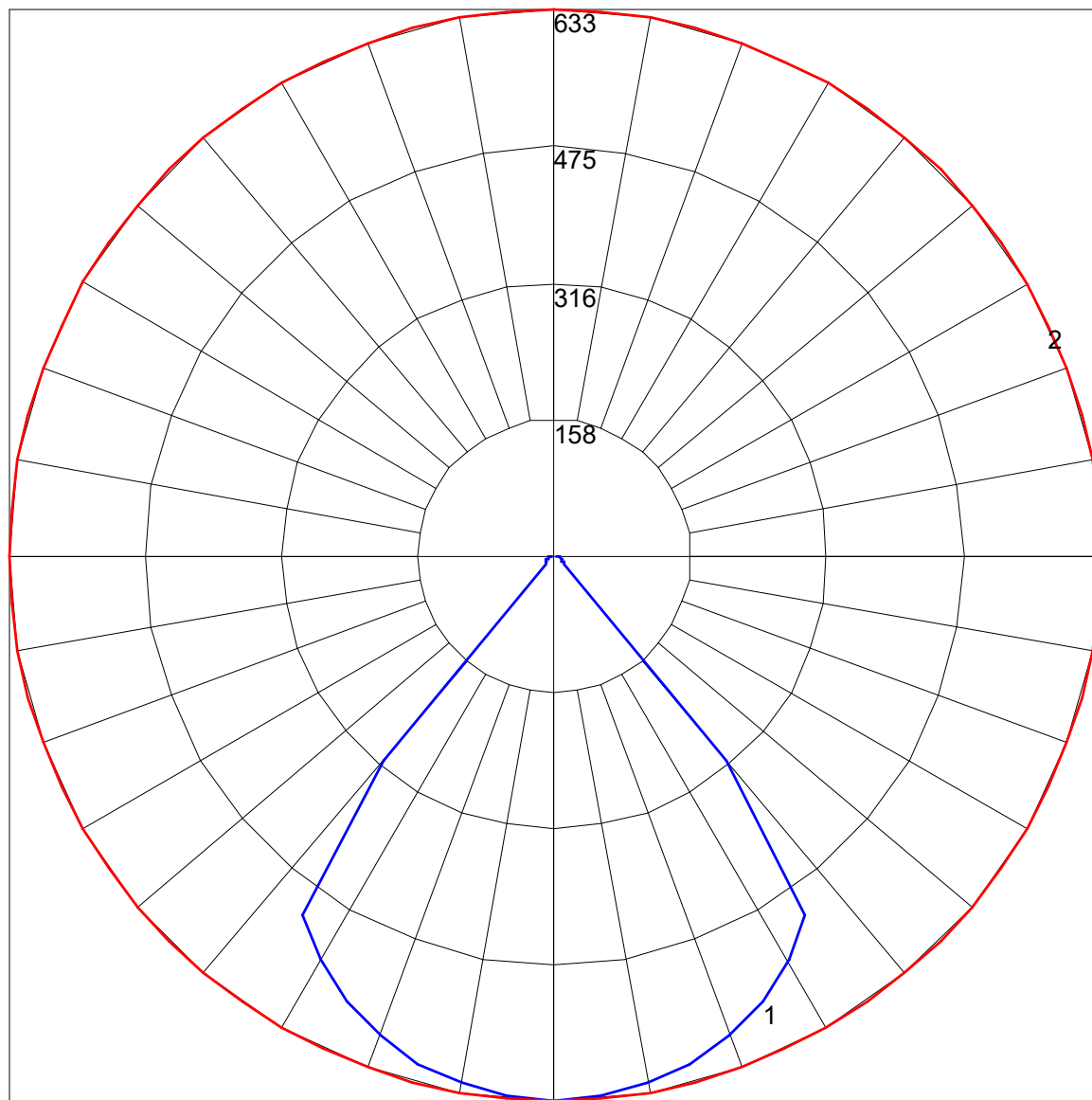
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	113	110	107	105	110	108	105	103	104	102	100	100	98	97	97	95	94	92
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85
3	101	95	89	85	99	93	88	84	90	86	83	88	85	82	86	83	80	79
4	96	88	82	78	94	87	81	77	85	80	76	83	79	75	81	77	75	73
5	91	82	76	72	89	81	75	71	79	74	71	78	73	70	76	72	69	68
6	86	77	71	66	85	76	70	66	75	69	65	73	69	65	72	68	65	63
7	82	72	66	61	80	71	66	61	70	65	61	69	64	61	68	64	60	59
8	78	68	62	57	76	67	61	57	66	61	57	65	60	57	64	60	56	55
9	74	64	58	54	73	63	58	54	62	57	53	61	57	53	61	56	53	52
10	70	60	54	50	69	60	54	50	59	54	50	58	53	50	58	53	50	49

POLAR GRAPH



Maximum Candela = 632.78 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.)