

## IES Report

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

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

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	69	71	72	72
Total Lumens, 4' rail length (1219mm)	982	1013	1034	1034
Lumens per foot (305mm)	246	253	259	259
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\_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-LO-35-WB

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

[MORE] white baffle w/clear lens down, low output

[TEST PROCEDURE] IESNA:LM-79-08

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1034
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	72
Total Luminaire Watts	14.38
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	2283	4793	6847
55	1786	2755	5564
65	1297	1549	4400
75	391	598	2918
85	161	174	1067

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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>	787.06	787.06	787.06	787.06	787.06	787.06	787.06	787.06	787.06	787.06
<b>5</b>	781.84	778.94	776.04	773.14	770.82	767.92	765.60	763.28	761.54	759.80
<b>10</b>	772.56	766.76	760.96	755.74	750.52	745.88	741.24	731.38	722.10	713.98
<b>15</b>	758.06	749.94	741.82	734.28	725.58	709.34	694.26	680.34	667.00	654.82
<b>20</b>	734.86	723.84	713.98	701.80	680.92	661.20	642.06	623.50	607.26	590.44
<b>25</b>	705.28	692.52	680.34	656.56	631.62	607.26	582.90	560.86	536.50	513.88
<b>30</b>	672.22	657.14	638.58	607.84	578.26	549.26	519.10	488.36	459.36	430.36
<b>35</b>	622.92	605.52	579.42	546.36	513.30	481.40	448.92	411.22	377.00	343.36
<b>40</b>	368.88	359.02	348.00	346.26	356.70	374.68	356.12	320.16	288.26	254.62
<b>45</b>	102.08	114.84	139.20	160.08	165.30	166.46	203.00	200.10	194.88	182.70
<b>50</b>	88.16	90.48	95.12	100.34	106.72	117.16	125.28	133.40	136.30	135.14
<b>55</b>	79.46	80.62	82.94	86.42	89.32	93.96	98.02	99.18	100.34	101.50
<b>60</b>	71.34	71.34	70.76	69.60	69.60	71.34	71.92	73.08	74.24	75.40
<b>65</b>	55.68	54.52	51.04	49.88	49.30	49.30	49.88	50.46	51.62	53.36
<b>70</b>	32.48	31.32	30.16	30.16	30.74	30.74	30.74	31.32	32.48	34.22
<b>75</b>	15.66	15.08	16.82	16.24	16.24	16.24	16.24	16.24	17.40	18.56
<b>80</b>	9.86	10.44	9.86	9.86	9.28	9.28	8.70	8.70	8.70	8.70
<b>85</b>	5.80	6.38	6.38	6.38	6.38	5.80	5.80	5.22	5.22	4.64
<b>90</b>	2.32	2.32	2.32	2.32	2.32	2.32	2.32	2.32	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>	787.06	787.06	787.06	787.06	787.06	787.06	787.06	787.06	787.06
<b>5</b>	758.06	756.32	755.16	754.58	753.42	753.42	752.84	752.84	753.42
<b>10</b>	706.44	700.06	694.26	689.04	684.98	681.50	679.18	678.02	678.60
<b>15</b>	642.64	632.20	622.34	614.80	609.00	603.78	600.88	599.14	599.72
<b>20</b>	573.62	556.80	542.88	530.12	520.26	512.72	507.50	504.02	504.60
<b>25</b>	493.58	473.28	454.14	438.48	425.14	415.28	408.32	402.52	402.52
<b>30</b>	404.26	381.06	359.60	340.46	324.80	311.46	301.60	295.80	295.22
<b>35</b>	312.04	284.78	264.48	248.24	235.48	226.78	220.40	215.76	214.02
<b>40</b>	230.26	205.90	193.72	188.50	185.02	182.70	180.38	178.06	177.48
<b>45</b>	174.00	167.62	162.40	157.76	154.28	151.96	149.64	147.90	147.32
<b>50</b>	135.72	133.40	130.50	128.18	125.86	123.54	122.38	121.22	120.64
<b>55</b>	102.66	102.08	102.66	102.08	100.92	99.76	98.60	98.02	98.02
<b>60</b>	76.56	77.14	77.72	78.30	78.30	77.72	77.14	76.56	76.56
<b>65</b>	54.52	55.68	56.84	57.42	57.42	58.00	57.42	57.42	58.00
<b>70</b>	35.38	37.70	39.44	38.86	39.44	40.60	40.60	41.76	44.08
<b>75</b>	19.72	20.88	22.62	23.20	23.20	24.36	24.36	24.36	24.36
<b>80</b>	8.70	9.28	9.86	10.44	11.02	11.02	11.60	11.60	11.60
<b>85</b>	4.64	4.64	4.06	4.06	3.48	3.48	3.48	3.48	3.48
<b>90</b>	1.74	1.74	1.74	1.16	1.16	1.16	1.16	1.16	0.58

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	257.78	N.A.	24.90
0-30	500.44	N.A.	48.40
0-40	729.14	N.A.	70.50
0-60	952.22	N.A.	92.10
0-80	1028.2	N.A.	99.40
0-90	1034.06	N.A.	100.00
10-90	962.58	N.A.	93.10
20-40	471.36	N.A.	45.60
20-50	608.01	N.A.	58.80
40-70	276.87	N.A.	26.80
60-80	75.98	N.A.	7.30
70-80	22.19	N.A.	2.10
80-90	5.86	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	1034.06	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	71.48
10-20	186.29
20-30	242.66
30-40	228.70
40-50	136.65
50-60	86.43
60-70	53.80
70-80	22.19
80-90	5.86
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

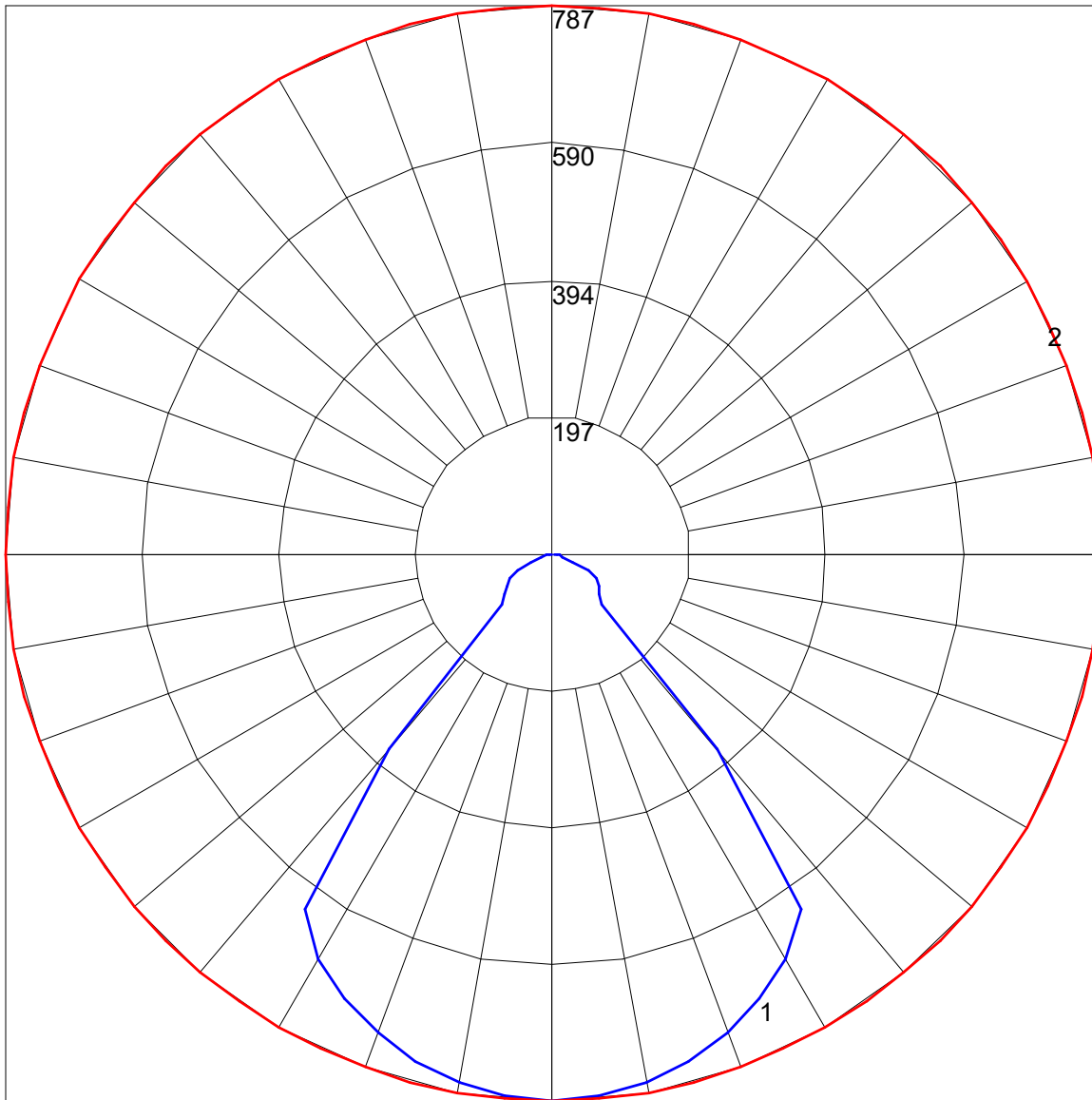
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 787.06 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.)