

## IES Report

# BoxRail® | 107 | White Baffle | 80 CRI | LO

107-BX-XX-4-48-XX-XX-XX-XX-X-X-Z-LO-35-WB-X-XX-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	65	67	69	69
Total Lumens, 4' rail length (1219mm)	893	921	940	940
Lumens per foot (305mm)	223	230	235	235
Input Power (W), 4' rail length (1219mm)	13.8	13.8	13.8	13.8
Watts per foot (305mm)	3.5	3.5	3.5	3.5
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\_107\_BX\_LO\_35\_WB.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L121911507 (SOURCE REPORT FOR REFERENCE)

[TESTLAB] REPORT BASED ON DATA FROM NVLAP ACCREDITED LAB

[ISSUE DATE] 12/23/2019

[MANUFAC] Vode Lighting

[LUMCAT] 107-BX-48-Z-LO-35-WB-AL

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

[MORE] 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	940
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	68
Total Luminaire Watts	13.82
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	0.80
Spacing Criterion (Diagonal)	1.00
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.07 ft
Luminous Width (90-270)	3.84 ft
Luminous Height	0.00 ft

### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	5021	9090	6891
55	4571	5866	5461
65	4832	4338	4447
75	2510	2690	3138
85	1597	1331	1331

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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>	710.50	710.50	710.50	710.50	710.50	710.50	710.50	710.50	710.50	710.50
<b>5</b>	708.76	708.18	707.60	706.44	705.86	704.12	702.38	700.64	699.48	698.32
<b>10</b>	701.80	701.22	697.74	694.26	690.78	688.46	684.40	679.18	673.96	667.00
<b>15</b>	689.62	687.30	682.08	676.86	670.48	660.62	647.86	635.10	621.76	609.00
<b>20</b>	670.48	666.42	660.04	651.34	636.26	617.12	597.98	579.42	562.60	549.26
<b>25</b>	643.22	637.42	629.30	612.48	589.28	564.92	542.30	524.90	506.92	484.30
<b>30</b>	612.48	606.10	592.76	567.24	537.66	509.82	489.52	459.36	428.04	399.04
<b>35</b>	572.46	564.92	545.20	514.46	483.14	458.20	421.66	383.38	350.32	322.48
<b>40</b>	378.16	379.32	382.80	388.02	393.24	372.94	341.62	309.14	267.38	226.20
<b>45</b>	88.74	92.80	102.08	114.26	134.56	168.78	196.04	197.20	176.32	160.66
<b>50</b>	68.44	70.76	74.82	79.46	85.26	92.80	102.08	110.78	115.42	117.74
<b>55</b>	65.54	66.70	69.02	71.34	74.82	78.88	82.94	83.52	83.52	84.10
<b>60</b>	60.90	61.48	60.90	60.90	60.90	62.06	62.64	62.64	62.64	62.64
<b>65</b>	51.04	50.46	48.72	46.98	45.82	45.24	45.24	45.24	45.24	45.82
<b>70</b>	31.90	31.32	31.32	30.16	29.58	29.00	29.00	29.58	29.58	30.16
<b>75</b>	16.24	16.24	16.24	15.66	15.66	15.66	16.24	16.24	16.82	17.40
<b>80</b>	8.12	8.12	7.54	7.54	7.54	7.54	7.54	7.54	7.54	8.12
<b>85</b>	3.48	3.48	3.48	3.48	3.48	3.48	3.48	3.48	2.90	2.90
<b>90</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**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>	710.50	710.50	710.50	710.50	710.50	710.50	710.50	710.50	710.50
<b>5</b>	697.16	696.58	696.00	695.42	694.26	694.26	693.68	693.10	693.10
<b>10</b>	660.62	654.82	649.02	643.80	639.74	636.26	633.94	632.20	631.62
<b>15</b>	597.98	587.54	578.84	571.30	566.08	561.44	558.54	557.38	556.80
<b>20</b>	537.66	526.06	513.30	499.96	489.52	480.24	473.86	469.80	468.64
<b>25</b>	460.52	439.06	420.50	404.26	392.66	383.38	377.00	373.52	372.36
<b>30</b>	374.68	356.12	336.40	314.94	296.38	281.88	272.02	265.64	263.90
<b>35</b>	288.26	256.94	230.84	211.70	199.52	191.98	187.34	184.44	183.28
<b>40</b>	196.62	179.80	169.94	163.56	158.34	154.28	151.96	150.22	149.64
<b>45</b>	150.80	143.26	137.46	132.24	128.76	125.86	123.54	122.38	121.80
<b>50</b>	116.58	112.52	109.04	105.56	103.24	100.92	99.76	98.60	98.02
<b>55</b>	85.26	85.26	84.10	82.94	81.78	80.04	79.46	78.88	78.30
<b>60</b>	63.22	63.22	63.22	63.22	63.22	62.64	62.06	62.06	61.48
<b>65</b>	45.82	46.40	46.98	46.98	46.98	47.56	46.98	46.98	46.98
<b>70</b>	30.74	31.32	31.90	32.48	32.48	33.06	33.06	33.06	33.06
<b>75</b>	17.98	18.56	19.14	19.72	20.30	20.30	20.88	20.88	20.30
<b>80</b>	8.12	8.70	9.28	9.28	9.86	9.86	10.44	10.44	9.86
<b>85</b>	2.90	2.90	2.90	2.90	2.90	2.90	2.90	2.90	2.90
<b>90</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	238.76	N.A.	25.40
0-30	464.20	N.A.	49.40
0-40	676.57	N.A.	72.00
0-60	869.79	N.A.	92.50
0-80	935.93	N.A.	99.60
0-90	939.96	N.A.	100.00
10-90	874.24	N.A.	93.00
20-40	437.82	N.A.	46.60
20-50	559.65	N.A.	59.50
40-70	239.46	N.A.	25.50
60-80	66.14	N.A.	7.00
70-80	19.89	N.A.	2.10
80-90	4.04	N.A.	0.40
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	939.96	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	65.73
10-20	173.03
20-30	225.44
30-40	212.37
40-50	121.84
50-60	71.38
60-70	46.25
70-80	19.89
80-90	4.04
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

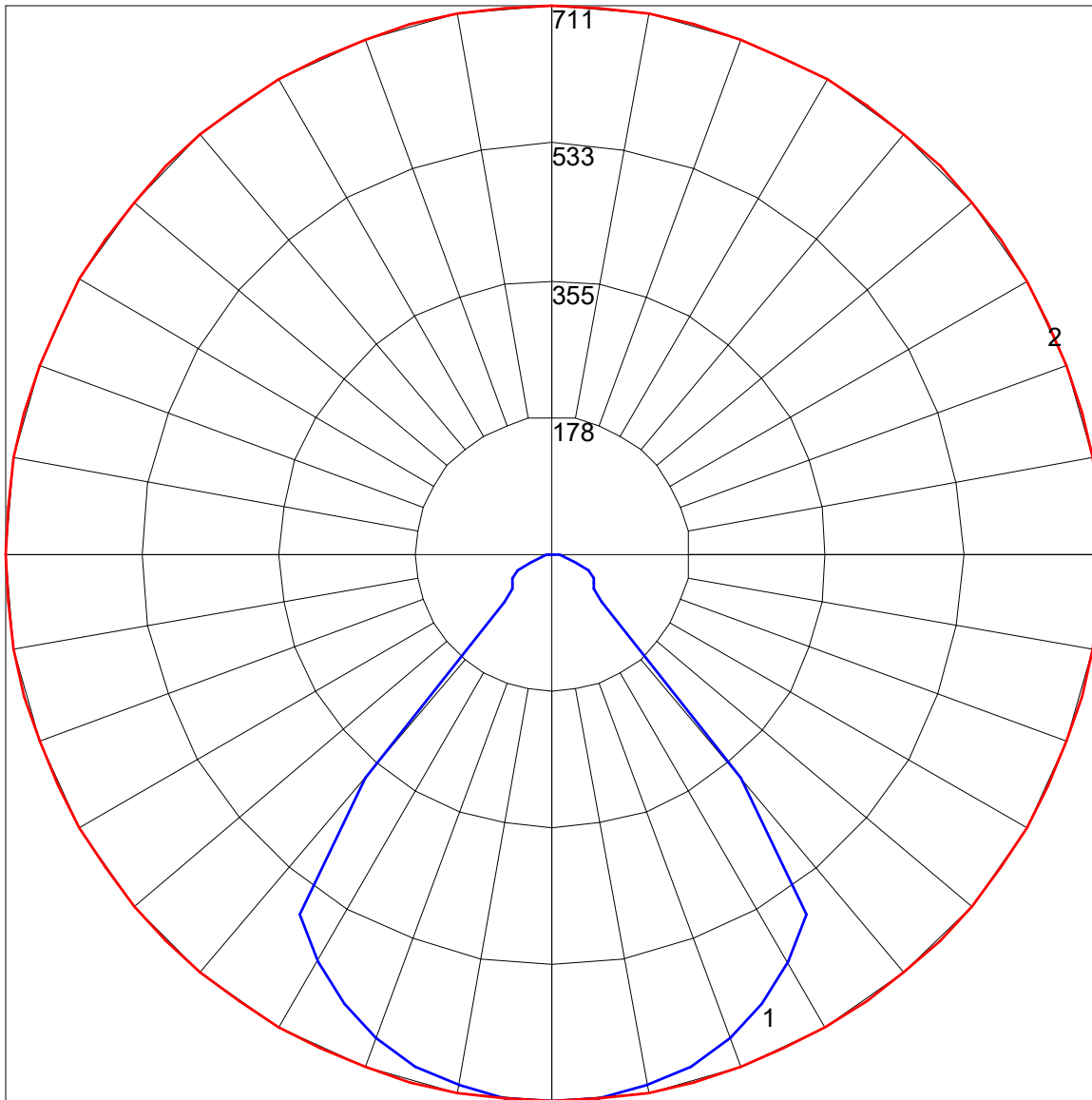
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	101	102	100	97	98	96	94	95	93	92	90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74	72
4	91	82	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	65
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	59
6	80	69	62	57	78	68	61	56	67	60	56	65	60	55	64	59	55	53
7	75	64	57	52	74	63	56	51	62	56	51	60	55	51	59	54	50	49
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	47	45
9	67	55	48	44	66	55	48	44	54	48	43	53	47	43	52	47	43	42
10	63	52	45	40	62	51	45	40	50	44	40	50	44	40	49	44	40	39

POLAR GRAPH



Maximum Candela = 710.5 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.)