

## IES Report

# BoxRail® | 107 | Black Baffle | 90 CRI | LO

107-BX-XX-4-48-XX-XX-XX-XX-X-X-Z-LO-359-BB-X-XX-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	31	31	32	32
Total Lumens, 4' rail length (1219mm)	415	428	437	441
Lumens per foot (305mm)	104	107	109	110
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	94	94	94	94

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\_359\_BB.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L121911508 (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-359-BB-AL

[LUMINAIRE] BoxRail LED, 48", 3500K, 90 CRI, zipper board, black 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	436
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	32
Total Luminaire Watts	13.82
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.30
Spacing Criterion (90-270)	0.66
Spacing Criterion (Diagonal)	0.86
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	595	1459	640
55	634	433	292
65	635	250	135
75	628	282	71
85	751	500	39

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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>	497.680	497.680	497.680	497.680	497.680	497.680	497.680	497.680	497.680	497.680
<b>5</b>	497.160	496.910	495.945	494.665	492.950	490.705	488.315	485.445	482.680	479.975
<b>10</b>	492.930	491.565	487.605	481.570	473.755	465.705	457.950	450.305	443.010	436.390
<b>15</b>	483.750	480.880	471.970	459.755	446.595	434.000	421.675	409.040	396.195	384.605
<b>20</b>	470.880	465.665	450.555	433.140	415.245	397.160	378.715	360.970	344.370	329.955
<b>25</b>	454.325	446.090	425.260	403.405	379.305	355.435	333.160	312.285	292.735	274.125
<b>30</b>	433.830	422.035	395.945	369.245	339.385	311.765	286.950	261.700	234.560	208.825
<b>35</b>	409.145	393.910	362.895	330.705	296.840	266.980	236.490	203.170	169.115	143.740
<b>40</b>	244.975	241.835	241.540	240.680	232.780	211.530	173.430	142.500	108.030	71.880
<b>45</b>	10.520	10.960	11.880	13.830	22.760	36.755	56.810	62.430	37.740	25.795
<b>50</b>	9.430	9.265	8.800	8.280	7.840	7.630	8.045	9.600	11.945	13.580
<b>55</b>	9.095	8.800	8.070	7.270	6.390	5.660	5.155	5.070	5.405	6.205
<b>60</b>	8.760	8.320	7.440	6.475	5.490	4.650	4.110	3.750	3.565	3.605
<b>65</b>	6.705	6.455	5.890	5.260	4.570	3.960	3.520	3.145	2.850	2.640
<b>70</b>	5.240	5.050	4.650	4.235	3.750	3.355	2.975	2.685	2.390	2.160
<b>75</b>	4.065	3.960	3.690	3.415	3.125	2.830	2.535	2.265	2.010	1.825
<b>80</b>	3.270	3.165	2.935	2.725	2.535	2.285	2.075	1.865	1.635	1.465
<b>85</b>	1.635	1.635	1.570	1.530	1.490	1.445	1.385	1.320	1.215	1.090
<b>90</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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>	497.680	497.680	497.680	497.680	497.680	497.680	497.680	497.680	497.680
<b>5</b>	477.255	474.885	472.745	470.755	469.205	467.950	466.985	466.500	466.315
<b>10</b>	429.935	424.045	418.680	413.965	409.920	406.755	404.410	403.025	402.605
<b>15</b>	373.980	364.175	355.835	348.625	342.800	338.250	335.085	333.180	332.445
<b>20</b>	316.855	304.680	293.740	283.935	275.465	268.470	263.185	260.045	258.935
<b>25</b>	255.245	237.015	220.710	206.585	195.100	186.255	179.990	176.220	174.940
<b>30</b>	184.750	164.065	146.525	130.010	115.615	103.630	94.720	89.380	87.430
<b>35</b>	116.120	88.540	63.980	45.600	35.480	30.135	27.455	26.110	25.690
<b>40</b>	42.080	29.485	25.000	22.530	20.685	19.215	18.170	17.520	17.310
<b>45</b>	22.320	19.740	17.435	15.550	14.060	12.930	12.090	11.525	11.315
<b>50</b>	13.685	12.700	11.400	10.145	9.115	8.280	7.630	7.230	7.040
<b>55</b>	6.960	7.210	6.855	6.245	5.660	5.095	4.630	4.315	4.190
<b>60</b>	3.750	3.920	3.940	3.750	3.435	3.125	2.830	2.580	2.430
<b>65</b>	2.535	2.475	2.430	2.305	2.160	1.950	1.720	1.530	1.425
<b>70</b>	1.990	1.825	1.700	1.550	1.405	1.235	1.090	0.920	0.840
<b>75</b>	1.595	1.425	1.280	1.130	0.985	0.840	0.690	0.585	0.460
<b>80</b>	1.280	1.110	0.985	0.840	0.735	0.585	0.480	0.335	0.250
<b>85</b>	1.005	0.860	0.715	0.630	0.505	0.420	0.315	0.190	0.085
<b>90</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	155.24	N.A.	35.60
0-30	287.15	N.A.	65.80
0-40	392.60	N.A.	90.00
0-60	429.87	N.A.	98.50
0-80	435.41	N.A.	99.80
0-90	436.39	N.A.	100.00
10-90	391.70	N.A.	89.80
20-40	237.36	N.A.	54.40
20-50	268.72	N.A.	61.60
40-70	40.64	N.A.	9.30
60-80	5.54	N.A.	1.30
70-80	2.17	N.A.	0.50
80-90	0.99	N.A.	0.20
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	436.39	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	44.69
10-20	110.55
20-30	131.91
30-40	105.45
40-50	31.36
50-60	5.91
60-70	3.37
70-80	2.17
80-90	0.99
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

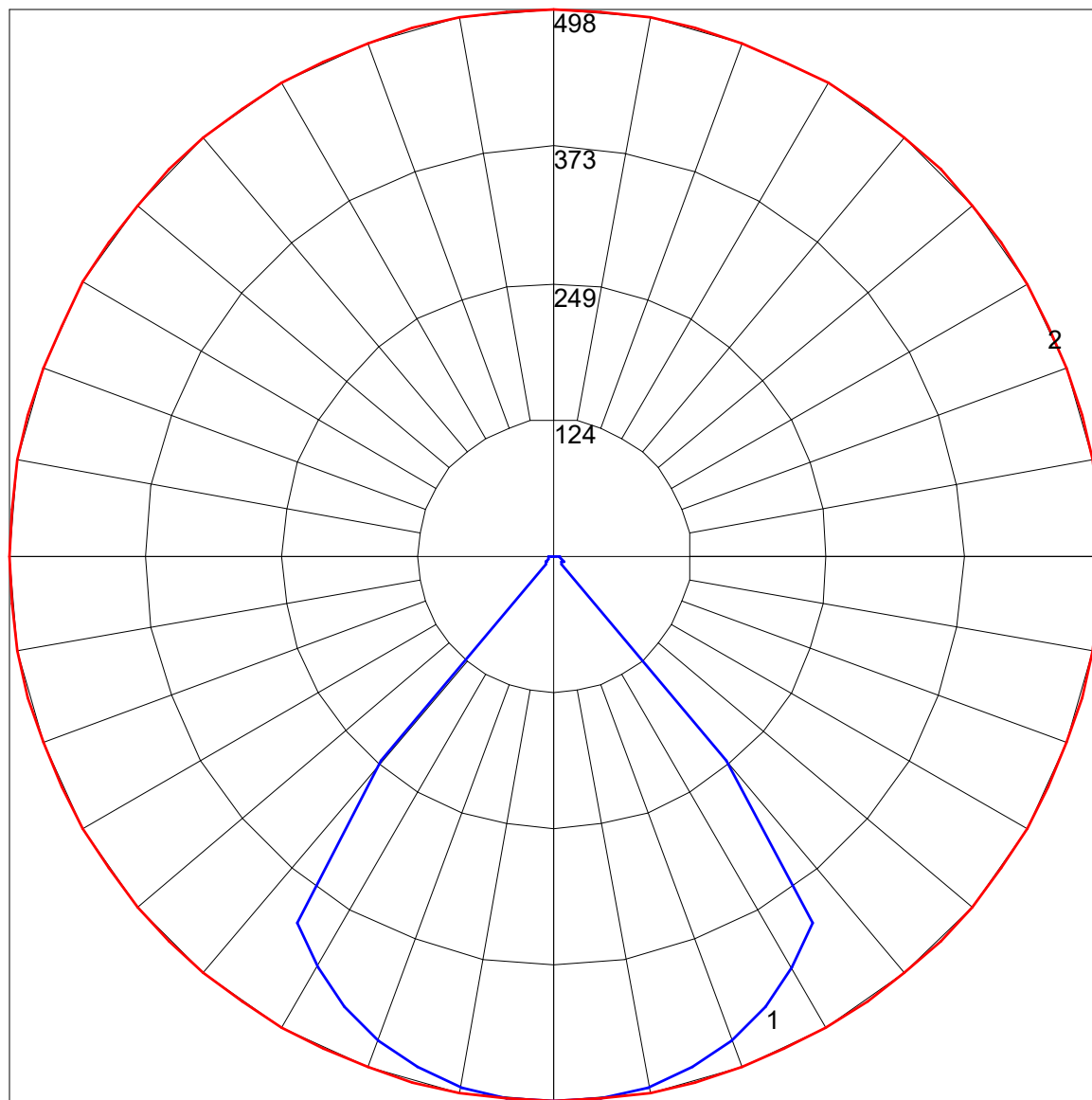
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	108	105	111	108	106	104	104	102	101	100	99	98	97	96	95	93
2	107	102	98	95	105	101	97	93	97	94	91	94	92	89	92	89	88	86
3	102	95	90	86	100	94	89	85	91	87	84	89	85	82	86	83	81	79
4	96	89	83	78	95	87	82	78	85	81	77	83	79	76	81	78	75	74
5	91	83	77	72	90	82	76	72	80	75	71	78	74	70	77	73	70	68
6	87	77	71	67	85	76	71	66	75	70	66	74	69	65	72	68	65	64
7	82	72	66	62	81	72	66	62	70	65	61	69	65	61	68	64	61	59
8	78	68	62	58	77	68	62	58	66	61	57	65	61	57	64	60	57	55
9	74	64	58	54	73	64	58	54	63	57	54	62	57	53	61	56	53	52
10	70	61	55	51	69	60	54	50	59	54	50	58	54	50	58	53	50	49

POLAR GRAPH



Maximum Candela = 497.68 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.)