

IES Report

**BoxRail® | 107 | Black Baffle | 80 CRI | LO**

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

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	35	36	37	37
Total Lumens, 4' rail length (1219mm)	481	496	506	506
Lumens per foot (305mm)	120	124	127	127
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](http://vode.com).



**IES INDOOR REPORT**

**PHOTOMETRIC FILENAME : VODE\_107\_BX\_LO\_35\_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-35-BB-AL  
[LUMINAIRE] BoxRail LED, 48", 3500K, 80 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	506
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	37
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	690	1693	743
55	736	502	339
65	736	290	156
75	729	327	83
85	871	580	45

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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>	577.309	577.309	577.309	577.309	577.309	577.309	577.309	577.309	577.309	577.309
<b>5</b>	576.706	576.416	575.296	573.811	571.822	569.218	566.445	563.116	559.909	556.771
<b>10</b>	571.799	570.215	565.622	558.621	549.556	540.218	531.222	522.354	513.892	506.212
<b>15</b>	561.150	557.821	547.485	533.316	518.050	503.440	489.143	474.486	459.586	446.142
<b>20</b>	546.221	540.171	522.644	502.442	481.684	460.706	439.309	418.725	399.469	382.748
<b>25</b>	527.017	517.464	493.302	467.950	439.994	412.305	386.466	362.251	339.573	317.985
<b>30</b>	503.243	489.561	459.296	428.324	393.687	361.647	332.862	303.572	272.090	242.237
<b>35</b>	474.608	456.936	420.958	383.618	344.334	309.697	274.328	235.677	196.173	166.738
<b>40</b>	284.171	280.529	280.186	279.189	270.025	245.375	201.179	165.300	125.315	83.381
<b>45</b>	12.203	12.714	13.781	16.043	26.402	42.636	65.900	72.419	43.778	29.922
<b>50</b>	10.939	10.747	10.208	9.605	9.094	8.851	9.332	11.136	13.856	15.753
<b>55</b>	10.550	10.208	9.361	8.433	7.412	6.566	5.980	5.881	6.270	7.198
<b>60</b>	10.162	9.651	8.630	7.511	6.368	5.394	4.768	4.350	4.135	4.182
<b>65</b>	7.778	7.488	6.832	6.102	5.301	4.594	4.083	3.648	3.306	3.062
<b>70</b>	6.078	5.858	5.394	4.913	4.350	3.892	3.451	3.115	2.772	2.506
<b>75</b>	4.715	4.594	4.280	3.961	3.625	3.283	2.941	2.627	2.332	2.117
<b>80</b>	3.793	3.671	3.405	3.161	2.941	2.651	2.407	2.163	1.897	1.699
<b>85</b>	1.897	1.897	1.821	1.775	1.728	1.676	1.607	1.531	1.409	1.264
<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>	577.309	577.309	577.309	577.309	577.309	577.309	577.309	577.309	577.309
<b>5</b>	553.616	550.867	548.384	546.076	544.278	542.822	541.703	541.140	540.925
<b>10</b>	498.725	491.892	485.669	480.199	475.507	471.836	469.116	467.509	467.022
<b>15</b>	433.817	422.443	412.769	404.405	397.648	392.370	388.699	386.489	385.636
<b>20</b>	367.552	353.429	340.738	329.365	319.539	311.425	305.295	301.652	300.365
<b>25</b>	296.084	274.937	256.024	239.639	226.316	216.056	208.788	204.415	202.930
<b>30</b>	214.310	190.315	169.969	150.812	134.113	120.211	109.875	103.681	101.419
<b>35</b>	134.699	102.706	74.217	52.896	41.157	34.957	31.848	30.288	29.800
<b>40</b>	48.813	34.203	29.000	26.135	23.995	22.289	21.077	20.323	20.080
<b>45</b>	25.891	22.898	20.225	18.038	16.310	14.999	14.024	13.369	13.125
<b>50</b>	15.875	14.732	13.224	11.768	10.573	9.605	8.851	8.387	8.166
<b>55</b>	8.074	8.364	7.952	7.244	6.566	5.910	5.371	5.005	4.860
<b>60</b>	4.350	4.547	4.570	4.350	3.985	3.625	3.283	2.993	2.819
<b>65</b>	2.941	2.871	2.819	2.674	2.506	2.262	1.995	1.775	1.653
<b>70</b>	2.308	2.117	1.972	1.798	1.630	1.433	1.264	1.067	0.974
<b>75</b>	1.850	1.653	1.485	1.311	1.143	0.974	0.800	0.679	0.534
<b>80</b>	1.485	1.288	1.143	0.974	0.853	0.679	0.557	0.389	0.290
<b>85</b>	1.166	0.998	0.829	0.731	0.586	0.487	0.365	0.220	0.099
<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	180.08	N.A.	35.60
0-30	333.09	N.A.	65.80
0-40	455.42	N.A.	90.00
0-60	498.65	N.A.	98.50
0-80	505.07	N.A.	99.80
0-90	506.21	N.A.	100.00
10-90	454.37	N.A.	89.80
20-40	275.34	N.A.	54.40
20-50	311.71	N.A.	61.60
40-70	47.14	N.A.	9.30
60-80	6.42	N.A.	1.30
70-80	2.51	N.A.	0.50
80-90	1.14	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	506.21	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	51.84
10-20	128.24
20-30	153.01
30-40	122.33
40-50	36.37
50-60	6.85
60-70	3.91
70-80	2.51
80-90	1.14
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

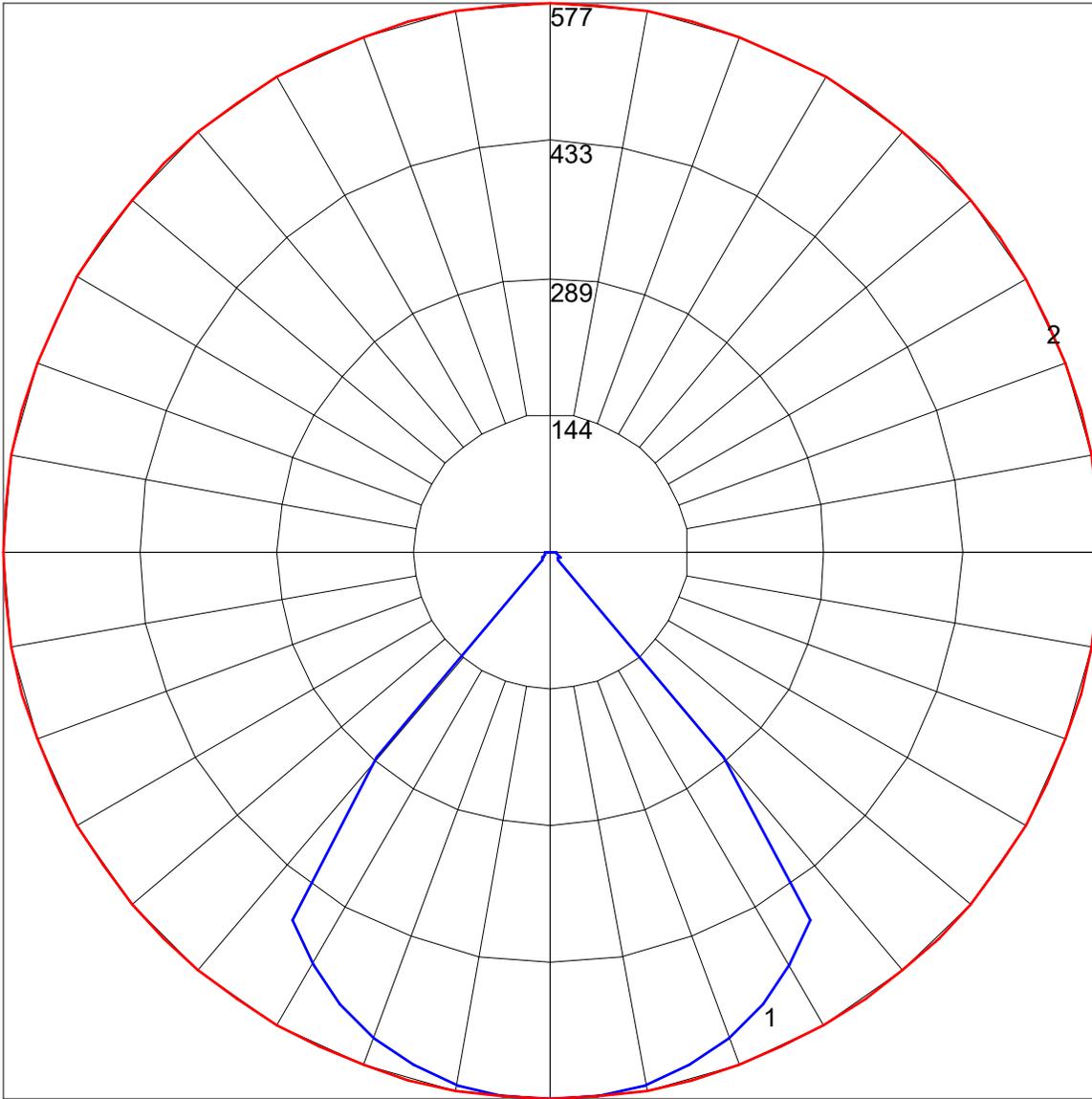
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	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	88	83	78	94	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	86	77	71	67	85	76	71	66	75	70	66	73	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	67	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	60	55	51	69	60	54	50	59	54	50	58	54	50	58	53	50	49	

POLAR GRAPH



Maximum Candela = 577.309 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.)