

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	25	26	26	26
Total Lumens, 4' rail length (1219mm)	361	380	380	387
Lumens per foot (305mm)	90	95	95	97
Input Power (W), 4' rail length (1219mm)	15.0	15.0	15.0	15.0
Watts per foot (305mm)	3.8	3.8	3.8	3.8
CRI	96	96	96	96

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] L071704207 (SOURCE REPORT FOR REFERENCE)  
[TESTLAB] REPORT BASED ON DATA PRODUCED BY NVLAP ACCREDITED LAB  
[ISSUEDATE] 11/1/2017  
[MANUFAC] Vode Lighting  
[LUMCAT] 107-BX-48-Z-LO-359-BB  
[LUMINAIRE] BoxRail LED, 48", 3500K, 90 CRI, zipper board,  
[MORE] black baffle, low output  
[TEST PROCEDURE] IESNA:LM-79-08

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	380
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	25
Total Luminaire Watts	14.95
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.30
Spacing Criterion (90-270)	0.64
Spacing Criterion (Diagonal)	0.84
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.08 ft
Luminous Width (90-270)	3.85 ft
Luminous Height	0.00 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	427	1218	512
55	469	329	237
65	476	199	108
75	491	228	57
85	509	398	67

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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>	440.079	440.079	440.079	440.079	440.079	440.079	440.079	440.079	440.079	440.079
<b>5</b>	440.512	440.023	439.222	437.886	436.193	434.178	432.062	429.797	427.574	425.391
<b>10</b>	436.234	434.877	431.343	426.238	420.123	413.916	407.607	400.748	393.587	386.962
<b>15</b>	427.089	424.208	416.879	407.480	396.851	384.887	372.988	360.769	348.299	337.013
<b>20</b>	414.339	409.535	398.142	383.806	366.930	349.442	331.316	314.777	300.293	288.033
<b>25</b>	399.942	392.511	376.436	355.771	332.352	308.575	288.838	271.223	253.414	234.906
<b>30</b>	382.026	372.290	351.324	325.048	295.657	271.646	249.711	224.196	197.599	175.282
<b>35</b>	358.397	345.397	319.413	286.890	257.586	231.479	201.557	169.034	148.303	124.379
<b>40</b>	185.783	187.374	194.147	198.681	197.640	178.627	149.068	123.022	92.065	60.603
<b>45</b>	8.639	8.894	9.277	9.930	15.183	27.484	42.687	49.909	34.195	24.669
<b>50</b>	7.961	7.854	7.497	7.094	6.691	6.523	6.859	8.109	10.251	12.005
<b>55</b>	7.706	7.497	6.926	6.268	5.590	4.978	4.554	4.447	4.723	5.401
<b>60</b>	7.497	7.135	6.457	5.656	4.850	4.192	3.708	3.386	3.198	3.177
<b>65</b>	5.758	5.569	5.080	4.615	4.044	3.601	3.198	2.881	2.606	2.412
<b>70</b>	4.615	4.488	4.172	3.789	3.432	3.070	2.774	2.479	2.244	1.989
<b>75</b>	3.641	3.534	3.305	3.070	2.836	2.606	2.351	2.116	1.907	1.693
<b>80</b>	2.922	2.861	2.647	2.458	2.264	2.076	1.907	1.739	1.566	1.397
<b>85</b>	1.270	1.290	1.290	1.249	1.249	1.229	1.209	1.142	1.081	0.994
<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>	440.079	440.079	440.079	440.079	440.079	440.079	440.079	440.079	440.079
<b>5</b>	423.274	421.347	419.613	418.149	416.899	415.844	415.186	414.742	414.594
<b>10</b>	380.756	375.085	369.832	365.109	361.253	358.015	355.689	354.373	353.863
<b>15</b>	326.930	318.418	311.176	304.786	299.788	295.764	292.929	291.337	290.807
<b>20</b>	276.813	265.399	254.388	244.372	236.135	229.168	224.068	220.912	219.876
<b>25</b>	216.633	199.696	186.313	176.215	168.229	161.838	156.901	153.790	152.837
<b>30</b>	158.447	142.989	126.709	111.272	97.721	86.940	79.152	74.429	72.797
<b>35</b>	98.481	73.731	54.483	41.631	34.619	28.647	25.622	24.179	23.715
<b>40</b>	38.877	28.290	22.848	20.288	18.656	17.406	16.473	15.881	15.667
<b>45</b>	20.181	17.850	15.861	14.142	12.832	11.796	11.031	10.526	10.373
<b>50</b>	12.367	11.602	10.440	9.338	8.364	7.624	7.053	6.650	6.523
<b>55</b>	6.207	6.543	6.309	5.783	5.233	4.723	4.299	4.003	3.896
<b>60</b>	3.346	3.560	3.601	3.453	3.198	2.902	2.626	2.392	2.285
<b>65</b>	2.264	2.203	2.183	2.137	1.969	1.780	1.586	1.438	1.311
<b>70</b>	1.800	1.632	1.525	1.418	1.290	1.188	1.015	0.867	0.765
<b>75</b>	1.484	1.311	1.188	1.035	0.913	0.806	0.678	0.530	0.423
<b>80</b>	1.209	1.081	0.933	0.785	0.658	0.571	0.464	0.337	0.255
<b>85</b>	0.913	0.785	0.678	0.571	0.490	0.403	0.316	0.235	0.168
<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	136.73	N.A.	36.00
0-30	251.33	N.A.	66.20
0-40	342.27	N.A.	90.20
0-60	373.77	N.A.	98.50
0-80	378.77	N.A.	99.80
0-90	379.65	N.A.	100.00
10-90	340.07	N.A.	89.60
20-40	205.53	N.A.	54.10
20-50	231.78	N.A.	61.10
40-70	34.52	N.A.	9.10
60-80	5.01	N.A.	1.30
70-80	1.98	N.A.	0.50
80-90	0.88	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	379.65	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	39.58
10-20	97.15
20-30	114.60
30-40	90.94
40-50	26.25
50-60	5.25
60-70	3.02
70-80	1.98
80-90	0.88
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

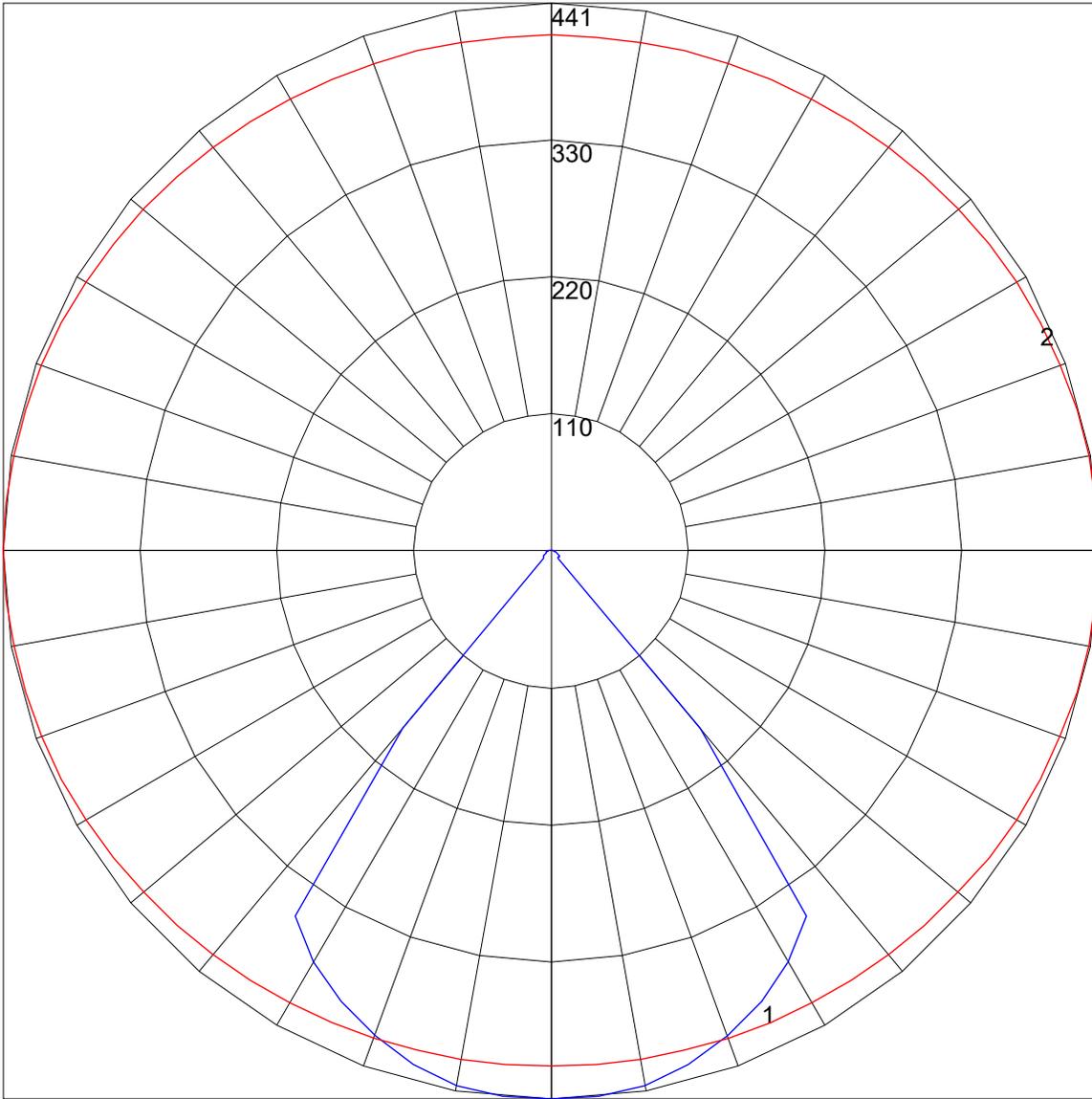
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	100
1	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93	93
2	107	102	98	94	105	100	97	93	97	94	91	94	92	89	91	89	87	86	86
3	102	95	90	86	100	94	89	85	91	87	84	88	85	82	86	83	81	79	79
4	96	88	83	78	94	87	82	78	85	81	77	83	79	76	81	78	75	74	74
5	91	83	77	72	90	82	76	72	80	75	71	78	74	70	77	73	70	68	68
6	86	77	71	67	85	76	71	66	75	70	66	74	69	66	72	68	65	64	64
7	82	72	66	62	81	72	66	62	71	65	61	69	65	61	68	64	61	59	59
8	78	68	62	58	77	68	62	58	66	61	57	65	61	57	64	60	57	55	55
9	74	64	58	54	73	64	58	54	63	57	54	62	57	54	61	57	53	52	52
10	71	61	55	51	70	60	54	51	59	54	50	59	54	50	58	53	50	49	49

POLAR GRAPH



Maximum Candela = 440.512 Located At Horizontal Angle = 0, Vertical Angle = 5  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)