

## IES Report

**BoxRail® | 207 | Black Baffle, down | 90 CRI | SO**

**207-BX-XX-4-48-XX-XX-XX-X-X-Z-SO-359-BB-X-BL-X**

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	34	36	36	37
Total Lumens, 4' rail length (1219mm)	858	885	903	912
Lumens per foot (305mm)	215	221	226	228
Input Power (W), 4' rail length (1219mm)	25.3	25.3	25.3	25.3
Watts per foot (305mm)	6.4	6.4	6.4	6.4
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\_207\_BX\_SO\_359\_BB\_BL.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L022010915 (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-SO-359-BB-BL

[LUMINAIRE] BoxRail LED, 48", 3500K, 90 CRI, zipper board,

[MORE] black baffle w/clear lens down, standard output, black anodized finish

[TEST PROCEDURE] IESNA:LM-79-08

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	903
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	36
Total Luminaire Watts	25.26
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	0.62
Spacing Criterion (Diagonal)	0.84
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	425	1443	1116
55	292	326	511
65	210	116	228
75	100	97	240
85	139	113	307

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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>	1070	1070	1070	1070	1070	1070	1070	1070	1070	1070
<b>5</b>	1065	1058	1051	1045	1038	1031	1025	1019	1014	1009
<b>10</b>	1053	1039	1025	1012	999	986	975	955	936	919
<b>15</b>	1032	1010	990	971	949	917	886	858	832	807
<b>20</b>	1003	975	949	919	876	834	793	753	716	682
<b>25</b>	965	933	902	851	799	746	694	644	598	556
<b>30</b>	917	878	835	772	710	649	590	533	477	420
<b>35</b>	860	818	759	687	613	542	477	407	339	276
<b>40</b>	551	517	470	426	400	390	343	270	203	143
<b>45</b>	19	39	83	114	121	104	128	121	87	55
<b>50</b>	15	15	14	14	13	19	19	23	26	27
<b>55</b>	13	13	12	11	9	9	8	9	10	12
<b>60</b>	12	11	10	9	8	7	6	5	5	6
<b>65</b>	9	9	8	7	6	6	5	4	4	4
<b>70</b>	6	6	6	6	5	5	4	4	3	3
<b>75</b>	4	4	5	4	4	4	4	3	3	3
<b>80</b>	5	5	5	5	4	4	4	3	3	2
<b>85</b>	5	5	5	5	5	5	4	4	4	3
<b>90</b>	4	4	4	4	4	4	4	4	4	4

Vert. 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>	1070	1070	1070	1070	1070	1070	1070	1070	1070
<b>5</b>	1004	1000	996	993	991	989	987	987	987
<b>10</b>	903	889	877	866	856	849	843	839	839
<b>15</b>	783	760	741	724	710	699	690	685	684
<b>20</b>	651	624	600	577	559	546	533	524	522
<b>25</b>	517	479	444	414	389	369	355	344	343
<b>30</b>	367	321	280	246	219	196	180	168	167
<b>35</b>	218	165	138	117	95	79	70	67	69
<b>40</b>	107	77	63	55	47	41	39	37	36
<b>45</b>	49	41	36	32	29	27	25	24	24
<b>50</b>	28	25	23	21	19	17	16	15	15
<b>55</b>	14	14	13	12	11	10	9	9	9
<b>60</b>	6	7	7	7	6	6	5	5	5
<b>65</b>	3	4	4	4	4	3	3	3	3
<b>70</b>	3	3	2	2	2	2	2	2	2
<b>75</b>	2	2	2	2	2	2	1	1	2
<b>80</b>	2	2	2	1	1	1	1	1	1
<b>85</b>	3	3	2	2	1	1	1	1	1
<b>90</b>	3	3	3	2	2	2	1	1	2

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	325.54	N.A.	36.00
0-30	596.91	N.A.	66.10
0-40	812.33	N.A.	89.90
0-60	891.73	N.A.	98.70
0-80	899.87	N.A.	99.60
0-90	903.19	N.A.	100.00
10-90	808.75	N.A.	89.50
20-40	486.78	N.A.	53.90
20-50	555.49	N.A.	61.50
40-70	84.39	N.A.	9.30
60-80	8.14	N.A.	0.90
70-80	3.16	N.A.	0.30
80-90	3.32	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	903.19	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	94.43
10-20	231.11
20-30	271.37
30-40	215.41
40-50	68.71
50-60	10.70
60-70	4.98
70-80	3.16
80-90	3.32
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

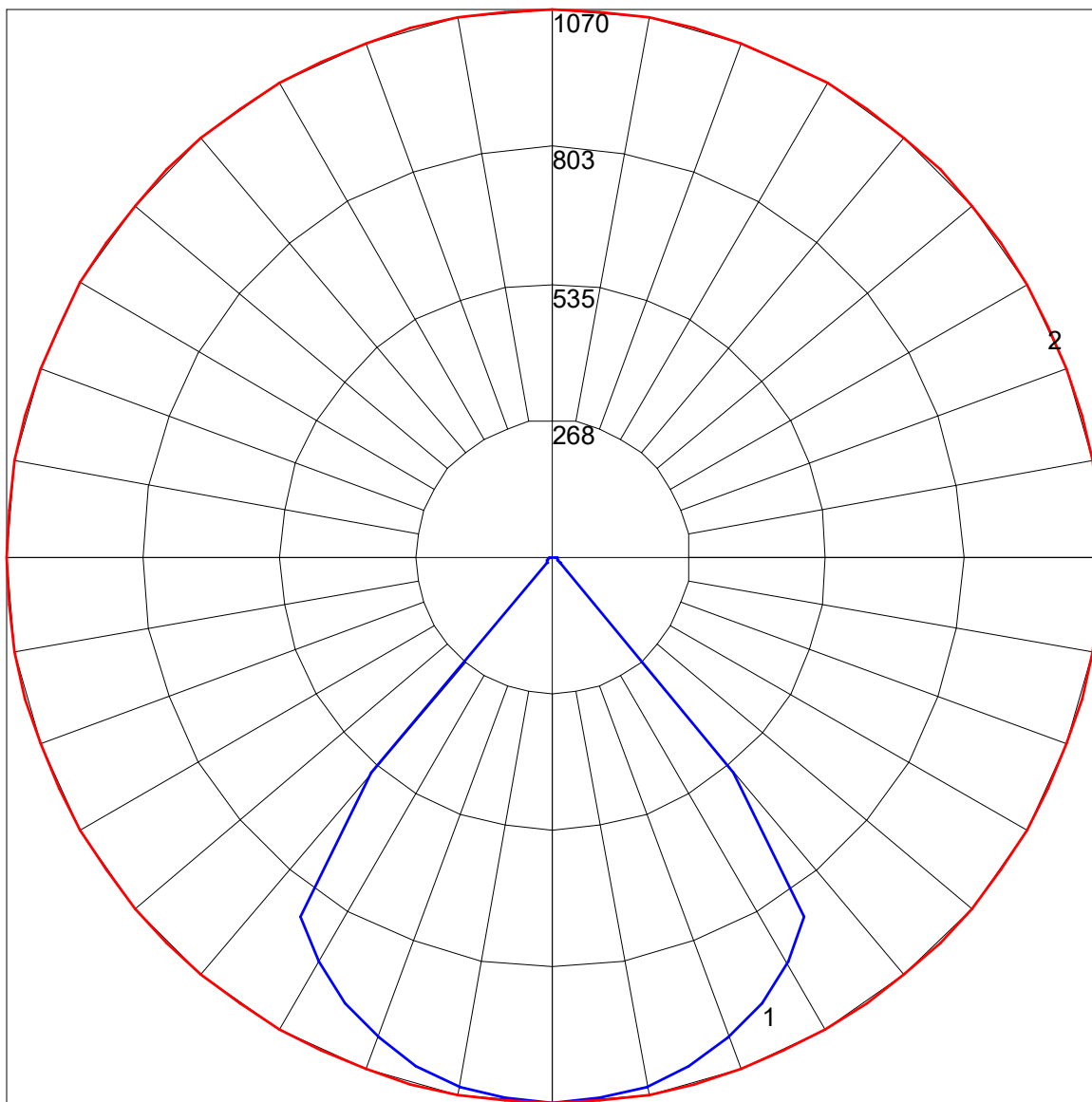
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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

POLAR GRAPH



Maximum Candela = 1070 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.)