

## IES Report

# BoxRail® | 207 | 60° Symmetric, down | 90 CRI | SO

207-BX-XX-4-48-XX-XX-XX-X-X-Z-SO-359-S2-X-BL-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	39	40	41	41
Total Lumens, 4' rail length (1219mm)	970	1001	1021	1031
Lumens per foot (305mm)	242	250	255	258
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\_S1\_BL.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L022010911 (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-S1-BL

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

[MORE] 40° symmetric 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	869
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	34
Total Luminaire Watts	25.26
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.62
Spacing Criterion (90-270)	1.06
Spacing Criterion (Diagonal)	0.80
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	1061	2627	14069
55	499	1243	8237
65	264	602	4699
75	132	271	2811
85	114	126	1285

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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>	913.52	913.52	913.52	913.52	913.52	913.52	913.52	913.52	913.52	913.52
<b>5</b>	868.42	867.93	867.79	868.00	868.55	869.45	870.68	872.23	874.09	876.25
<b>10</b>	748.89	748.27	750.15	753.51	758.66	765.54	774.07	781.83	791.30	802.31
<b>15</b>	585.51	585.00	590.04	597.94	608.80	620.32	635.30	653.57	674.97	697.43
<b>20</b>	421.22	420.83	428.34	438.71	450.94	467.62	487.91	509.86	535.42	564.88
<b>25</b>	282.24	283.62	290.56	300.07	313.92	330.72	350.10	372.75	401.88	435.34
<b>30</b>	181.31	182.72	188.34	196.44	207.84	221.69	237.64	260.04	288.80	317.35
<b>35</b>	114.50	115.65	119.50	125.80	133.72	143.36	155.40	176.00	196.72	223.02
<b>40</b>	72.26	73.19	75.76	79.99	85.60	92.07	102.85	116.02	130.76	152.80
<b>45</b>	47.45	48.17	49.62	52.24	55.52	59.39	67.69	75.26	88.03	100.14
<b>50</b>	31.94	32.32	33.40	35.15	37.27	40.64	44.95	50.76	58.33	68.52
<b>55</b>	22.21	22.44	23.15	24.30	25.52	27.99	30.30	34.53	39.52	45.79
<b>60</b>	16.01	16.09	16.48	17.04	17.92	19.34	21.19	23.33	26.84	31.18
<b>65</b>	11.32	11.39	11.64	12.10	12.84	13.47	14.79	16.30	18.31	20.76
<b>70</b>	7.63	7.56	8.21	8.42	8.99	9.46	10.00	10.90	12.11	13.77
<b>75</b>	5.28	5.44	6.11	6.07	6.14	6.38	6.60	6.96	7.61	8.42
<b>80</b>	4.61	4.77	5.01	4.84	4.84	4.87	4.91	4.94	4.97	5.04
<b>85</b>	4.11	4.16	4.08	3.97	3.89	3.78	3.63	3.44	3.41	3.35
<b>90</b>	4.08	4.15	4.19	4.11	4.02	3.98	3.86	3.65	3.35	3.10

**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>	913.52	913.52	913.52	913.52	913.52	913.52	913.52	913.52	913.52
<b>5</b>	878.69	881.40	884.34	887.50	890.86	894.39	898.01	901.83	905.72
<b>10</b>	814.78	828.61	843.42	848.30	853.76	859.77	866.28	873.17	880.66
<b>15</b>	718.45	736.80	757.04	779.01	803.73	811.36	820.07	829.56	840.42
<b>20</b>	596.16	628.78	662.69	688.51	716.54	747.77	758.00	769.67	783.76
<b>25</b>	471.59	508.42	547.23	588.45	620.85	653.73	679.38	691.02	706.39
<b>30</b>	353.00	392.74	432.58	475.72	519.67	552.62	587.95	597.70	612.34
<b>35</b>	254.96	289.49	327.20	365.24	408.74	446.06	478.29	494.75	508.90
<b>40</b>	175.52	205.98	236.50	270.19	306.00	337.83	361.72	381.98	401.94
<b>45</b>	119.94	140.47	165.18	195.28	224.36	251.49	273.93	291.23	302.69
<b>50</b>	79.85	95.30	113.71	134.28	156.47	177.04	193.98	206.54	213.67
<b>55</b>	54.35	64.18	75.99	90.47	106.03	120.05	131.93	141.07	145.10
<b>60</b>	36.53	42.65	50.63	60.45	71.01	81.08	89.12	93.29	95.81
<b>65</b>	24.27	28.54	33.89	39.87	46.11	52.26	57.67	60.60	61.95
<b>70</b>	15.94	18.71	22.11	25.78	29.45	33.20	36.55	38.40	39.40
<b>75</b>	9.69	11.31	13.40	15.59	17.73	19.84	21.63	22.78	23.47
<b>80</b>	5.44	5.96	6.85	7.89	9.05	10.12	11.18	11.69	11.65
<b>85</b>	3.13	2.86	3.06	3.35	3.50	3.49	3.99	4.33	4.19
<b>90</b>	2.81	2.52	2.31	2.01	1.84	1.59	1.34	1.51	1.59

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	277.10	N.A.	31.90
0-30	490.35	N.A.	56.40
0-40	657.67	N.A.	75.70
0-60	822.72	N.A.	94.70
0-80	864.59	N.A.	99.50
0-90	869.21	N.A.	100.00
10-90	787.41	N.A.	90.60
20-40	380.57	N.A.	43.80
20-50	486.98	N.A.	56.00
40-70	194.24	N.A.	22.30
60-80	41.87	N.A.	4.80
70-80	12.68	N.A.	1.50
80-90	4.62	N.A.	0.50
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	869.21	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	81.79
10-20	195.31
20-30	213.25
30-40	167.31
40-50	106.41
50-60	58.64
60-70	29.19
70-80	12.68
80-90	4.62
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

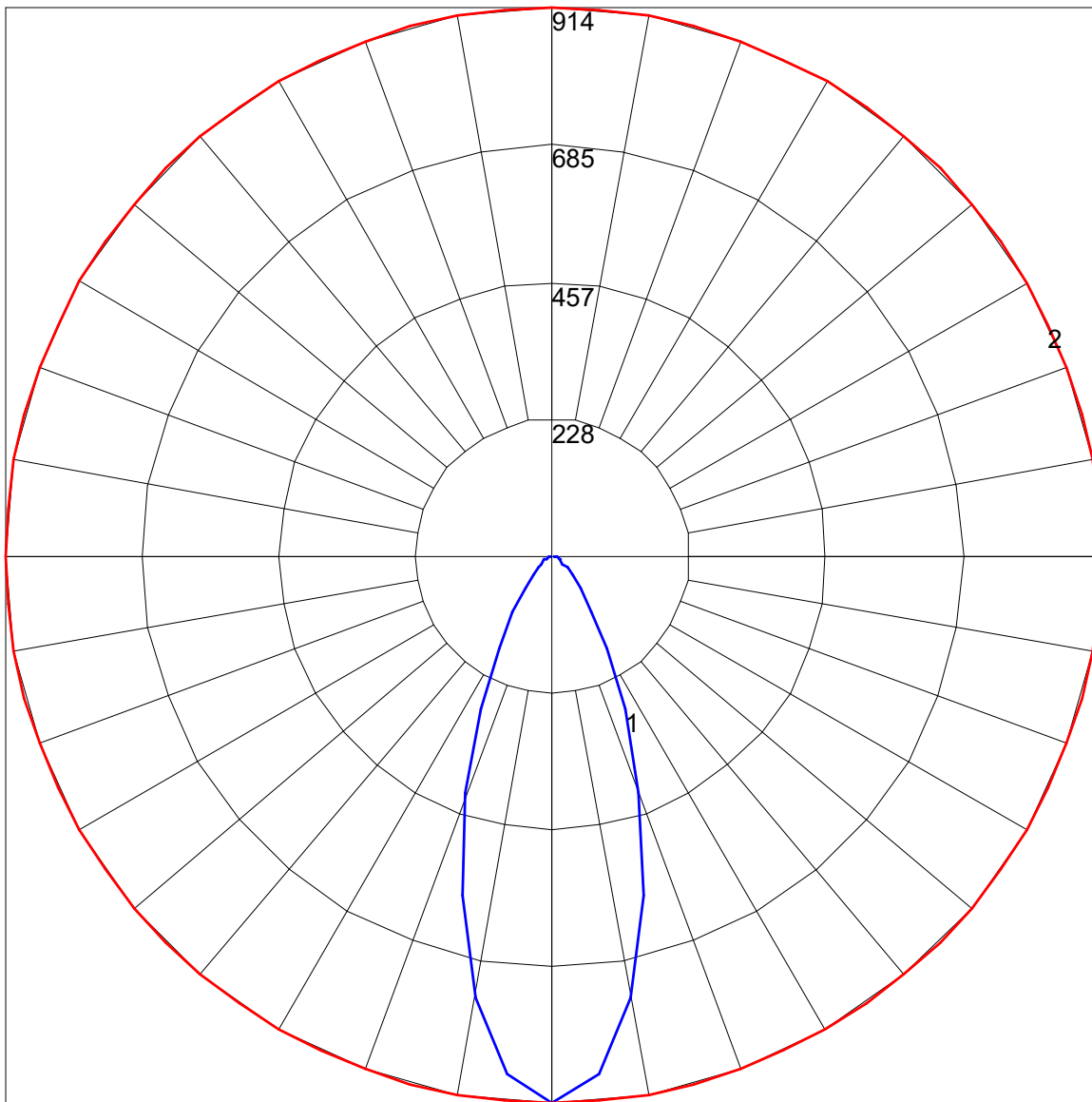
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	109	106	103	110	107	104	102	103	100	98	99	97	95	95	94	93	91
2	105	100	95	91	103	98	93	90	94	91	88	91	88	86	89	86	84	82
3	99	91	85	81	97	90	84	80	87	83	79	85	81	77	82	79	76	74
4	93	84	78	73	91	83	77	72	81	75	71	79	74	70	77	73	70	68
5	87	78	71	66	86	77	70	66	75	69	65	73	68	64	71	67	64	62
6	82	72	65	60	81	71	65	60	70	64	60	68	63	59	67	62	59	57
7	78	67	60	56	76	67	60	55	65	59	55	64	59	55	63	58	55	53
8	74	63	56	52	72	62	56	51	61	55	51	60	55	51	59	54	51	49
9	70	59	52	48	69	58	52	48	57	52	48	57	51	48	56	51	47	46
10	66	56	49	45	65	55	49	45	54	49	45	53	48	44	53	48	44	43

POLAR GRAPH



Maximum Candela = 913.52 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.)