

## IES Report

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

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

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	34	35	36	36
Total Lumens, 4' rail length (1219mm)	485	500	510	516
Lumens per foot (305mm)	121	125	128	129
Input Power (W), 4' rail length (1219mm)	14.4	14.4	14.4	14.4
Watts per foot (305mm)	3.6	3.6	3.6	3.6
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\_LO\_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-LO-359-S1-BL

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

[MORE] 40° symmetric lens down, low 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	435
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	30
Total Luminaire Watts	14.38
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	531	1314	7034
55	250	621	4118
65	132	301	2350
75	66	136	1406
85	57	63	643

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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>	456.760	456.760	456.760	456.760	456.760	456.760	456.760	456.760	456.760	456.760
<b>5</b>	434.210	433.965	433.895	434.000	434.275	434.725	435.340	436.115	437.045	438.125
<b>10</b>	374.445	374.135	375.075	376.755	379.330	382.770	387.035	390.915	395.650	401.155
<b>15</b>	292.755	292.500	295.020	298.970	304.400	310.160	317.650	326.785	337.485	348.715
<b>20</b>	210.610	210.415	214.170	219.355	225.470	233.810	243.955	254.930	267.710	282.440
<b>25</b>	141.120	141.810	145.280	150.035	156.960	165.360	175.050	186.375	200.940	217.670
<b>30</b>	90.655	91.360	94.170	98.220	103.920	110.845	118.820	130.020	144.400	158.675
<b>35</b>	57.250	57.825	59.750	62.900	66.860	71.680	77.700	88.000	98.360	111.510
<b>40</b>	36.130	36.595	37.880	39.995	42.800	46.035	51.425	58.010	65.380	76.400
<b>45</b>	23.725	24.085	24.810	26.120	27.760	29.695	33.845	37.630	44.015	50.070
<b>50</b>	15.970	16.160	16.700	17.575	18.635	20.320	22.475	25.380	29.165	34.260
<b>55</b>	11.105	11.220	11.575	12.150	12.760	13.995	15.150	17.265	19.760	22.895
<b>60</b>	8.005	8.045	8.240	8.520	8.960	9.670	10.595	11.665	13.420	15.590
<b>65</b>	5.660	5.695	5.820	6.050	6.420	6.735	7.395	8.150	9.155	10.380
<b>70</b>	3.815	3.780	4.105	4.210	4.495	4.730	5.000	5.450	6.055	6.885
<b>75</b>	2.640	2.720	3.055	3.035	3.070	3.190	3.300	3.480	3.805	4.210
<b>80</b>	2.305	2.385	2.505	2.420	2.420	2.435	2.455	2.470	2.485	2.520
<b>85</b>	2.055	2.080	2.040	1.985	1.945	1.890	1.815	1.720	1.705	1.675
<b>90</b>	2.040	2.075	2.095	2.055	2.010	1.990	1.930	1.825	1.675	1.550

**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>	456.760	456.760	456.760	456.760	456.760	456.760	456.760	456.760	456.760
<b>5</b>	439.345	440.700	442.170	443.750	445.430	447.195	449.005	450.915	452.860
<b>10</b>	407.390	414.305	421.710	424.150	426.880	429.885	433.140	436.585	440.330
<b>15</b>	359.225	368.400	378.520	389.505	401.865	405.680	410.035	414.780	420.210
<b>20</b>	298.080	314.390	331.345	344.255	358.270	373.885	379.000	384.835	391.880
<b>25</b>	235.795	254.210	273.615	294.225	310.425	326.865	339.690	345.510	353.195
<b>30</b>	176.500	196.370	216.290	237.860	259.835	276.310	293.975	298.850	306.170
<b>35</b>	127.480	144.745	163.600	182.620	204.370	223.030	239.145	247.375	254.450
<b>40</b>	87.760	102.990	118.250	135.095	153.000	168.915	180.860	190.990	200.970
<b>45</b>	59.970	70.235	82.590	97.640	112.180	125.745	136.965	145.615	151.345
<b>50</b>	39.925	47.650	56.855	67.140	78.235	88.520	96.990	103.270	106.835
<b>55</b>	27.175	32.090	37.995	45.235	53.015	60.025	65.965	70.535	72.550
<b>60</b>	18.265	21.325	25.315	30.225	35.505	40.540	44.560	46.645	47.905
<b>65</b>	12.135	14.270	16.945	19.935	23.055	26.130	28.835	30.300	30.975
<b>70</b>	7.970	9.355	11.055	12.890	14.725	16.600	18.275	19.200	19.700
<b>75</b>	4.845	5.655	6.700	7.795	8.865	9.920	10.815	11.390	11.735
<b>80</b>	2.720	2.980	3.425	3.945	4.525	5.060	5.590	5.845	5.825
<b>85</b>	1.565	1.430	1.530	1.675	1.750	1.745	1.995	2.165	2.095
<b>90</b>	1.405	1.260	1.155	1.005	0.920	0.795	0.670	0.755	0.795

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	138.55	N.A.	31.90
0-30	245.18	N.A.	56.40
0-40	328.83	N.A.	75.70
0-60	411.36	N.A.	94.70
0-80	432.30	N.A.	99.50
0-90	434.60	N.A.	100.00
10-90	393.71	N.A.	90.60
20-40	190.28	N.A.	43.80
20-50	243.49	N.A.	56.00
40-70	97.12	N.A.	22.30
60-80	20.94	N.A.	4.80
70-80	6.34	N.A.	1.50
80-90	2.31	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	434.60	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	40.90
10-20	97.65
20-30	106.63
30-40	83.66
40-50	53.21
50-60	29.32
60-70	14.59
70-80	6.34
80-90	2.31
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

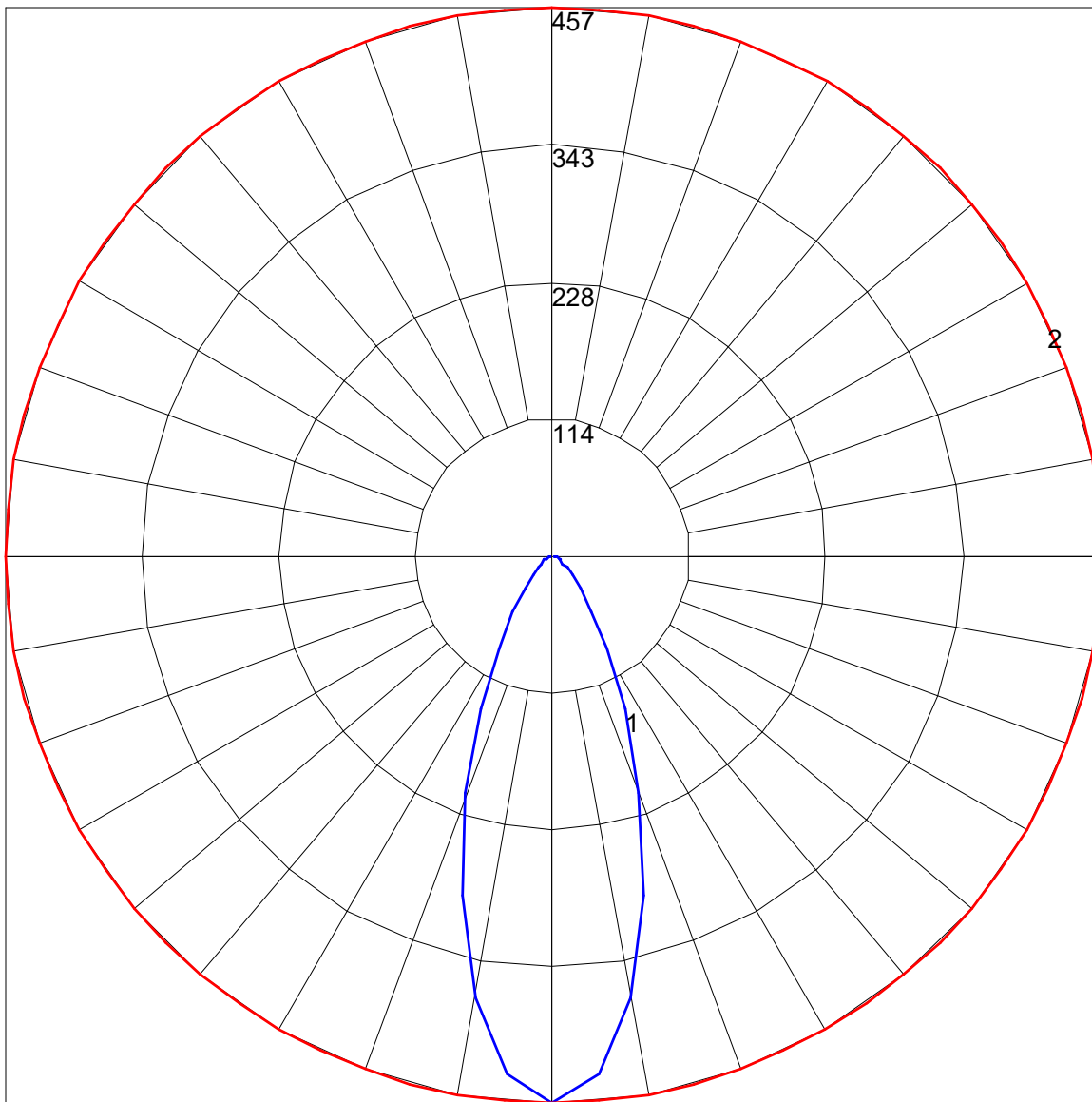
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	101	102	100	98	99	97	95	95	94	93	91
2	105	99	95	91	103	98	93	90	94	91	88	91	88	86	88	86	84	82
3	99	91	85	81	97	90	84	80	87	82	79	85	81	77	82	79	76	74
4	93	84	78	73	91	83	77	72	81	75	71	78	74	70	76	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	66	60	55	65	59	55	64	59	55	63	58	54	53
8	74	63	56	51	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	56	51	47	56	51	47	46
10	66	55	49	45	65	55	49	45	54	48	45	53	48	44	53	48	44	43

POLAR GRAPH



Maximum Candela = 456.76 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.)