

## IES Report

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

207-BX-XX-4-48-XX-XX-XX-X-X-Z-HO-359-S2-X-AL / WH-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	55	57	58	59
Total Lumens, 4' rail length (1219mm)	2819	2908	2968	2997
Lumens per foot (305mm)	705	727	742	749
Input Power (W), 4' rail length (1219mm)	51.6	51.6	51.6	51.6
Watts per foot (305mm)	12.9	12.9	12.9	12.9
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\_HO\_359\_S2.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L022010908 (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-HO-359-S2

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

[MORE] 60° symmetric lens down, high 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	2968
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	58
Total Luminaire Watts	51.57
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.80
Spacing Criterion (90-270)	1.08
Spacing Criterion (Diagonal)	0.96
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	7691	13709	37709
55	4612	8044	27611
65	2878	4687	19746
75	1424	2266	15704
85	264	499	6993

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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>	2169.8	2169.8	2169.8	2169.8	2169.8	2169.8	2169.8	2169.8	2169.8	2169.8
<b>5</b>	2120.4	2118.5	2118.5	2118.5	2118.5	2118.5	2120.4	2120.4	2122.3	2124.2
<b>10</b>	1972.2	1970.3	1972.2	1976.0	1981.7	1989.3	1998.8	2006.4	2014.0	2025.4
<b>15</b>	1736.6	1736.6	1744.2	1753.7	1768.9	1782.2	1799.3	1822.1	1850.6	1877.2
<b>20</b>	1444.0	1444.0	1459.2	1476.3	1493.4	1520.0	1552.3	1586.5	1626.4	1662.5
<b>25</b>	1132.4	1138.1	1153.3	1172.3	1200.8	1233.1	1273.0	1320.5	1362.3	1411.7
<b>30</b>	851.2	858.8	875.9	894.9	923.4	955.7	995.6	1043.1	1098.2	1151.4
<b>35</b>	627.0	632.7	646.0	668.8	691.6	720.1	754.3	801.8	849.3	902.5
<b>40</b>	461.7	469.3	478.8	494.0	513.0	535.8	566.2	604.2	642.2	693.5
<b>45</b>	343.9	349.6	357.2	368.6	381.9	397.1	423.7	448.4	484.5	522.5
<b>50</b>	262.2	266.0	271.7	279.3	286.9	300.2	317.3	338.2	362.9	393.3
<b>55</b>	205.2	207.1	210.9	216.6	218.5	228.0	237.5	256.5	275.5	296.4
<b>60</b>	161.5	163.4	163.4	163.4	165.3	171.0	180.5	190.0	205.2	222.3
<b>65</b>	123.5	123.5	121.6	121.6	123.5	127.3	134.9	142.5	150.1	161.5
<b>70</b>	85.5	81.7	83.6	85.5	89.3	91.2	95.0	98.8	104.5	114.0
<b>75</b>	57.0	55.1	57.0	58.9	58.9	58.9	58.9	60.8	66.5	70.3
<b>80</b>	28.5	28.5	32.3	32.3	32.3	34.2	36.1	36.1	38.0	38.0
<b>85</b>	9.5	11.4	11.4	9.5	9.5	9.5	9.5	9.5	11.4	13.3
<b>90</b>	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	7.6	7.6

**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>	2169.8	2169.8	2169.8	2169.8	2169.8	2169.8	2169.8	2169.8	2169.8
<b>5</b>	2128.0	2129.9	2133.7	2137.5	2141.3	2145.1	2148.9	2152.7	2158.4
<b>10</b>	2038.7	2053.9	2071.0	2074.8	2078.6	2084.3	2091.9	2099.5	2107.1
<b>15</b>	1900.0	1915.2	1936.1	1958.9	1985.5	1991.2	1996.9	2006.4	2017.8
<b>20</b>	1698.6	1734.7	1776.5	1799.3	1827.8	1860.1	1865.8	1873.4	1886.7
<b>25</b>	1464.9	1512.4	1556.1	1605.5	1635.9	1666.3	1691.0	1698.6	1717.6
<b>30</b>	1208.4	1267.3	1324.3	1369.9	1421.2	1449.7	1485.8	1491.5	1510.5
<b>35</b>	963.3	1022.2	1081.1	1136.2	1181.8	1219.8	1252.1	1265.4	1278.7
<b>40</b>	741.0	792.3	845.5	900.6	948.1	993.7	1018.4	1033.6	1041.2
<b>45</b>	566.2	609.9	653.6	699.2	742.9	775.2	790.4	801.8	811.3
<b>50</b>	425.6	465.5	503.5	539.6	575.7	600.4	619.4	634.6	644.1
<b>55</b>	323.0	347.7	376.2	404.7	433.2	454.1	469.3	480.7	486.4
<b>60</b>	241.3	258.4	281.2	300.2	319.2	336.3	349.6	355.3	359.1
<b>65</b>	174.8	190.0	205.2	218.5	231.8	243.2	252.7	258.4	260.3
<b>70</b>	123.5	134.9	144.4	155.8	163.4	171.0	176.7	180.5	182.4
<b>75</b>	77.9	83.6	93.1	100.7	106.4	110.2	117.8	123.5	131.1
<b>80</b>	39.9	43.7	47.5	51.3	55.1	58.9	60.8	60.8	62.7
<b>85</b>	13.3	13.3	15.2	17.1	19.0	19.0	20.9	22.8	22.8
<b>90</b>	7.6	5.7	5.7	5.7	3.8	3.8	3.8	3.8	1.9

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	723.14	N.A.	24.40
0-30	1373.23	N.A.	46.30
0-40	1957.84	N.A.	66.00
0-60	2683.39	N.A.	90.40
0-80	2947.14	N.A.	99.30
0-90	2968.35	N.A.	100.00
10-90	2768.09	N.A.	93.30
20-40	1234.7	N.A.	41.60
20-50	1668.39	N.A.	56.20
40-70	902.80	N.A.	30.40
60-80	263.76	N.A.	8.90
70-80	86.50	N.A.	2.90
80-90	21.21	N.A.	0.70
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	2968.35	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	200.26
10-20	522.88
20-30	650.09
30-40	584.61
40-50	433.69
50-60	291.85
60-70	177.26
70-80	86.50
80-90	21.21
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

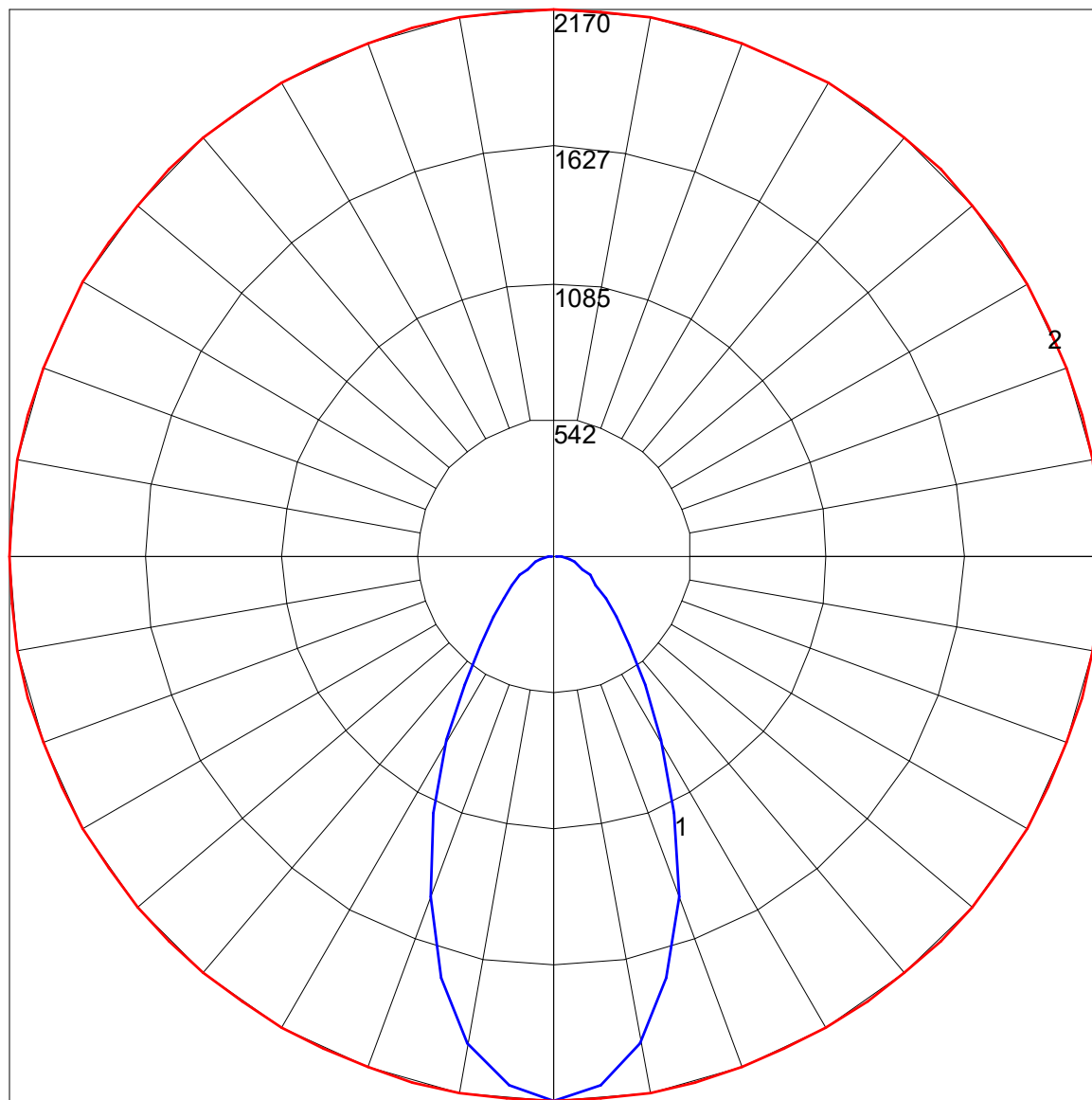
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89
2	103	97	91	87	101	95	90	86	92	87	84	88	85	82	86	83	80	78
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	71	69
4	90	80	72	67	87	78	72	66	76	70	66	74	69	65	72	68	64	62
5	84	73	65	60	82	72	65	60	70	64	59	68	63	58	66	62	58	56
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	53	51
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46
8	69	57	50	45	68	57	50	45	56	49	45	54	49	44	53	48	44	42
9	65	53	46	41	64	53	46	41	52	46	41	51	45	41	50	45	41	39
10	62	50	43	38	60	49	43	38	49	42	38	48	42	38	47	42	38	36

POLAR GRAPH



Maximum Candela = 2169.8 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.)