

## IES Report

**BoxRail® | 207 | Black Baffle, down | 80 CRI | HO**

**207-BX-XX-4-48-XX-XX-XX-X-X-Z-HO-35-BB-X-BL-X**

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	37	38	39	39
Total Lumens, 4' rail length (1219mm)	1891	1951	1991	1991
Lumens per foot (305mm)	473	488	498	498
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	82	82	82	82

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\_35\_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

[ISSUEDATE] 12/23/2019

[MANUFAC] Vode Lighting

[LUMCAT] 207-BX-48-Z-HO-35-BB-BL

[LUMINAIRE] BoxRail LED, 48", 3500K, 80 CRI, zipper board,

[MORE] black baffle w/clear lens down, high 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	1987
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	39
Total Luminaire Watts	51.57
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	935	3175	2454
55	643	716	1124
65	461	255	501
75	220	213	527
85	306	248	675

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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>	2354.0	2354.0	2354.0	2354.0	2354.0	2354.0	2354.0	2354.0	2354.0	2354.0
<b>5</b>	2343.0	2327.6	2312.2	2299.0	2283.6	2268.2	2255.0	2241.8	2230.8	2219.8
<b>10</b>	2316.6	2285.8	2255.0	2226.4	2197.8	2169.2	2145.0	2101.0	2059.2	2021.8
<b>15</b>	2270.4	2222.0	2178.0	2136.2	2087.8	2017.4	1949.2	1887.6	1830.4	1775.4
<b>20</b>	2206.6	2145.0	2087.8	2021.8	1927.2	1834.8	1744.6	1656.6	1575.2	1500.4
<b>25</b>	2123.0	2052.6	1984.4	1872.2	1757.8	1641.2	1526.8	1416.8	1315.6	1223.2
<b>30</b>	2017.4	1931.6	1837.0	1698.4	1562.0	1427.8	1298.0	1172.6	1049.4	924.0
<b>35</b>	1892.0	1799.6	1669.8	1511.4	1348.6	1192.4	1049.4	895.4	745.8	607.2
<b>40</b>	1212.2	1137.4	1034.0	937.2	880.0	858.0	754.6	594.0	446.6	314.6
<b>45</b>	41.8	85.8	182.6	250.8	266.2	228.8	281.6	266.2	191.4	121.0
<b>50</b>	33.0	33.0	30.8	30.8	28.6	41.8	41.8	50.6	57.2	59.4
<b>55</b>	28.6	28.6	26.4	24.2	19.8	19.8	17.6	19.8	22.0	26.4
<b>60</b>	26.4	24.2	22.0	19.8	17.6	15.4	13.2	11.0	11.0	13.2
<b>65</b>	19.8	19.8	17.6	15.4	13.2	13.2	11.0	8.8	8.8	8.8
<b>70</b>	13.2	13.2	13.2	13.2	11.0	11.0	8.8	8.8	6.6	6.6
<b>75</b>	8.8	8.8	11.0	8.8	8.8	8.8	8.8	6.6	6.6	6.6
<b>80</b>	11.0	11.0	11.0	11.0	8.8	8.8	8.8	6.6	6.6	4.4
<b>85</b>	11.0	11.0	11.0	11.0	11.0	11.0	8.8	8.8	8.8	6.6
<b>90</b>	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8

**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>	2354.0	2354.0	2354.0	2354.0	2354.0	2354.0	2354.0	2354.0	2354.0
<b>5</b>	2208.8	2200.0	2191.2	2184.6	2180.2	2175.8	2171.4	2171.4	2171.4
<b>10</b>	1986.6	1955.8	1929.4	1905.2	1883.2	1867.8	1854.6	1845.8	1845.8
<b>15</b>	1722.6	1672.0	1630.2	1592.8	1562.0	1537.8	1518.0	1507.0	1504.8
<b>20</b>	1432.2	1372.8	1320.0	1269.4	1229.8	1201.2	1172.6	1152.8	1148.4
<b>25</b>	1137.4	1053.8	976.8	910.8	855.8	811.8	781.0	756.8	754.6
<b>30</b>	807.4	706.2	616.0	541.2	481.8	431.2	396.0	369.6	367.4
<b>35</b>	479.6	363.0	303.6	257.4	209.0	173.8	154.0	147.4	151.8
<b>40</b>	235.4	169.4	138.6	121.0	103.4	90.2	85.8	81.4	79.2
<b>45</b>	107.8	90.2	79.2	70.4	63.8	59.4	55.0	52.8	52.8
<b>50</b>	61.6	55.0	50.6	46.2	41.8	37.4	35.2	33.0	33.0
<b>55</b>	30.8	30.8	28.6	26.4	24.2	22.0	19.8	19.8	19.8
<b>60</b>	13.2	15.4	15.4	15.4	13.2	13.2	11.0	11.0	11.0
<b>65</b>	6.6	8.8	8.8	8.8	8.8	6.6	6.6	6.6	6.6
<b>70</b>	6.6	6.6	4.4	4.4	4.4	4.4	4.4	4.4	4.4
<b>75</b>	4.4	4.4	4.4	4.4	4.4	4.4	2.2	2.2	4.4
<b>80</b>	4.4	4.4	4.4	2.2	2.2	2.2	2.2	2.2	2.2
<b>85</b>	6.6	6.6	4.4	4.4	2.2	2.2	2.2	2.2	2.2
<b>90</b>	6.6	6.6	6.6	4.4	4.4	4.4	2.2	2.2	4.4

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	716.20	N.A.	36.00
0-30	1313.21	N.A.	66.10
0-40	1787.12	N.A.	89.90
0-60	1961.81	N.A.	98.70
0-80	1979.71	N.A.	99.60
0-90	1987.01	N.A.	100.00
10-90	1779.26	N.A.	89.50
20-40	1070.92	N.A.	53.90
20-50	1222.07	N.A.	61.50
40-70	185.65	N.A.	9.30
60-80	17.90	N.A.	0.90
70-80	6.94	N.A.	0.30
80-90	7.30	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	1987.01	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	207.76
10-20	508.44
20-30	597.01
30-40	473.91
40-50	151.15
50-60	23.54
60-70	10.96
70-80	6.94
80-90	7.30
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

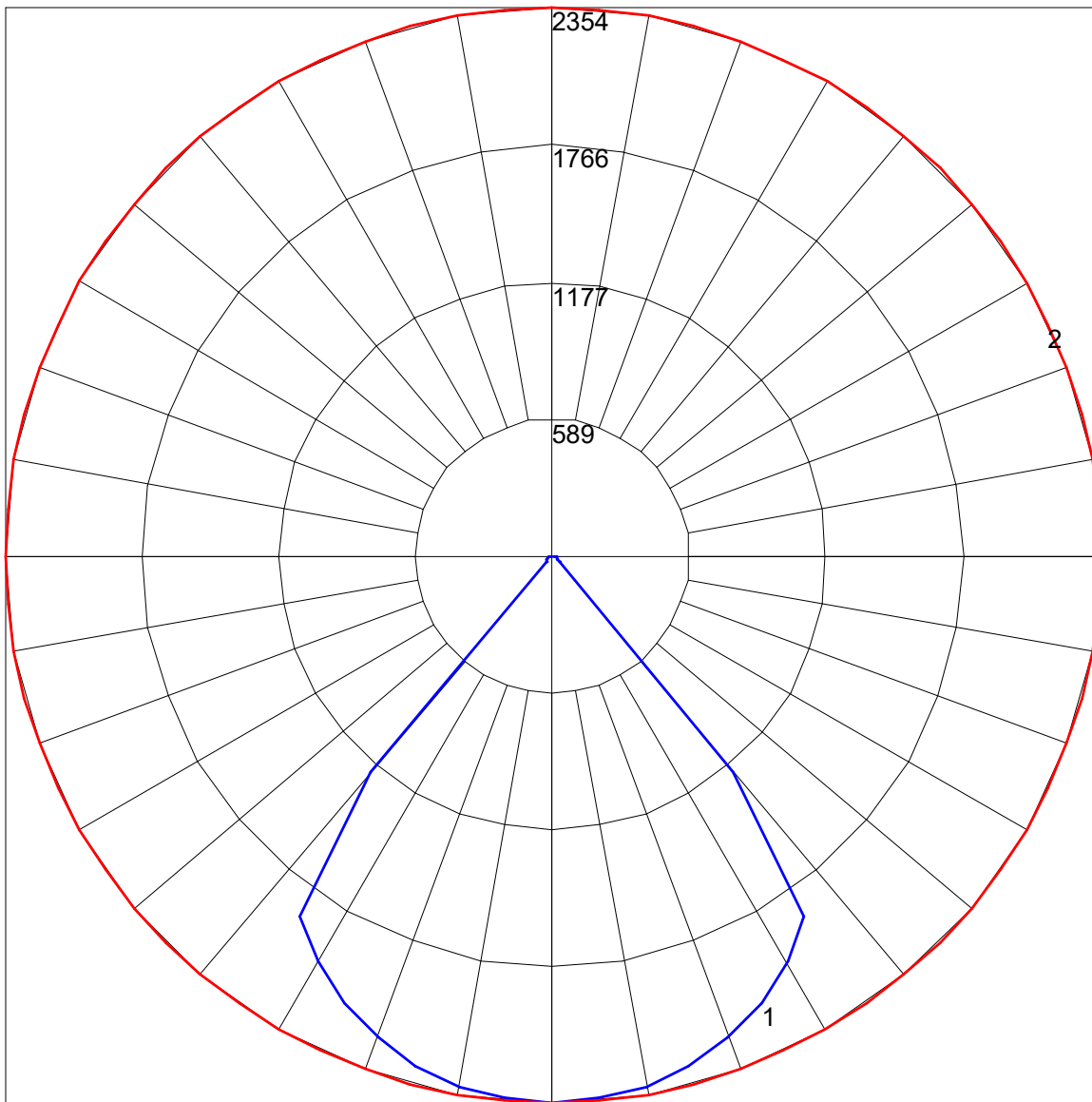
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	100	100	99	97	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	57	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 = 2354 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.)