

IES Report

BoxRail® | 207 | 85° Asymmetric, down | 90 CRI | HO

207-BX-XX-4-48-XX-XX-XX-X-X-Z-HO-359-A1-X-AL / WH-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	58	60	61	62
Total Lumens, 4' rail length (1219mm)	2973	3067	3129	3161
Lumens per foot (305mm)	743	767	782	790
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_A1.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L022010904 (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-A1

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

[MORE] 85° asymmetric 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	3129
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	61
Total Luminaire Watts	51.57
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.92
Spacing Criterion (90-270)	1.16
Spacing Criterion (Diagonal)	1.36
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	35227	36141	28878
55	23147	24545	23512
65	12175	14446	18737
75	2942	6247	14338
85	423	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>
0	1252.1	1252.1	1252.1	1252.1	1252.1	1252.1	1252.1	1252.1	1252.1	1252.1
5	1571.3	1569.4	1569.4	1556.1	1546.6	1535.2	1521.9	1504.8	1487.7	1466.8
10	1856.3	1854.4	1843.0	1829.7	1812.6	1791.7	1765.1	1732.8	1698.6	1660.6
15	2082.4	2078.6	2063.4	2046.3	2021.6	1989.3	1953.2	1913.3	1869.6	1820.2
20	2205.9	2200.2	2186.9	2167.9	2139.4	2107.1	2071.0	2027.3	1983.6	1919.0
25	2232.5	2224.9	2215.4	2194.5	2169.8	2139.4	2103.3	2069.1	2002.6	1934.2
30	2162.2	2154.6	2145.1	2128.0	2107.1	2082.4	2055.8	2006.4	1949.4	1888.6
35	2019.7	2012.1	2002.6	1991.2	1970.3	1947.5	1920.9	1873.4	1831.6	1772.7
40	1816.4	1810.7	1803.1	1791.7	1776.5	1755.6	1723.3	1689.1	1649.2	1594.1
45	1575.1	1571.3	1563.7	1554.2	1539.0	1521.9	1493.4	1468.7	1421.2	1377.5
50	1303.4	1301.5	1295.8	1290.1	1280.6	1265.4	1244.5	1214.1	1178.0	1134.3
55	1029.8	1026.0	1027.9	1024.1	1016.5	1007.0	991.8	963.3	936.7	904.4
60	763.8	763.8	765.7	767.6	765.7	758.1	748.6	733.4	710.6	687.8
65	522.5	526.3	530.1	532.0	533.9	533.9	530.1	524.4	513.0	497.8
70	304.0	307.8	315.4	321.1	328.7	334.4	338.2	342.0	338.2	332.5
75	117.8	125.4	136.8	142.5	152.0	167.2	176.7	184.3	190.0	193.8
80	19.0	30.4	26.6	30.4	34.2	39.9	45.6	55.1	62.7	74.1
85	15.2	15.2	15.2	15.2	15.2	13.3	13.3	11.4	11.4	13.3
90	17.1	17.1	17.1	17.1	15.2	15.2	15.2	13.3	13.3	11.4

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>	<u>95</u>
0	1252.1	1252.1	1252.1	1252.1	1252.1	1252.1	1252.1	1252.1	1252.1	1252.1
5	1445.9	1423.1	1400.3	1373.7	1349.0	1322.4	1293.9	1267.3	1238.8	1214.1
10	1618.8	1577.0	1533.3	1482.0	1428.8	1375.6	1322.4	1267.3	1212.2	1160.9
15	1763.2	1696.7	1628.3	1558.0	1487.7	1409.8	1330.0	1252.1	1172.3	1100.1
20	1846.8	1768.9	1689.1	1594.1	1497.2	1404.1	1303.4	1204.6	1107.7	1014.6
25	1867.7	1784.1	1687.2	1594.1	1483.9	1375.6	1265.4	1151.4	1039.3	932.9
30	1816.4	1736.6	1649.2	1539.0	1434.5	1312.9	1197.0	1071.6	950.0	839.8
35	1702.4	1630.2	1535.2	1436.4	1324.3	1210.3	1094.4	970.9	851.2	739.1
40	1533.3	1455.4	1373.7	1282.5	1176.1	1071.6	957.6	847.4	739.1	636.5
45	1314.8	1250.2	1181.8	1096.3	1008.9	915.8	815.1	718.2	621.3	533.9
50	1090.6	1033.6	970.9	906.3	834.1	752.4	659.3	571.9	513.0	438.9
55	864.5	817.0	763.8	708.7	647.9	594.7	537.7	476.9	414.2	357.2
60	655.5	604.2	566.2	535.8	503.5	465.5	419.9	370.5	326.8	281.2
65	478.8	457.9	435.1	408.5	380.0	347.7	317.3	279.3	247.0	216.6
70	323.0	311.6	300.2	285.0	266.0	247.0	226.1	201.4	180.5	165.3
75	193.8	191.9	193.8	188.1	176.7	167.2	152.0	131.1	119.7	108.3
80	81.7	87.4	95.0	91.2	87.4	83.6	77.9	70.3	64.6	60.8
85	17.1	17.1	17.1	20.9	22.8	24.7	24.7	24.7	22.8	22.8
90	9.5	9.5	7.6	5.7	5.7	5.7	3.8	3.8	3.8	3.8

Vert. Angles **Horizontal Angles**

	<u>100</u>	<u>105</u>	<u>110</u>	<u>115</u>	<u>120</u>	<u>125</u>	<u>130</u>	<u>135</u>	<u>140</u>	<u>145</u>
0	1252.1	1252.1	1252.1	1252.1	1252.1	1252.1	1252.1	1252.1	1252.1	1252.1
5	1187.5	1160.9	1136.2	1111.5	1088.7	1067.8	1046.9	1027.9	1010.8	995.6
10	1111.5	1062.1	1012.7	967.1	923.4	887.3	855.0	824.6	796.1	771.4
15	1027.9	955.7	893.0	834.1	780.9	729.6	682.1	646.0	617.5	592.8
20	925.3	843.6	769.5	703.0	636.5	592.8	552.9	513.0	478.8	456.0
25	830.3	741.0	661.2	587.1	532.0	480.7	440.8	410.4	381.9	359.1
30	731.5	644.1	560.5	497.8	438.9	397.1	361.0	330.6	311.6	294.5
35	636.5	551.0	476.9	414.2	366.7	328.7	300.2	277.4	260.3	248.9

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CANDELA TABULATION - (Cont.)

40	543.4	461.7	400.9	347.7	307.8	277.4	254.6	239.4	226.1	216.6
45	456.0	385.7	334.4	292.6	258.4	235.6	220.4	207.1	199.5	191.9
50	376.2	323.0	277.4	245.1	222.3	203.3	190.0	182.4	174.8	171.0
55	305.9	264.1	231.8	205.2	186.2	174.8	165.3	159.6	153.9	150.1
60	245.1	214.7	190.0	171.0	155.8	146.3	140.6	134.9	129.2	127.3
65	190.0	169.1	152.0	136.8	127.3	119.7	114.0	110.2	108.3	106.4
70	142.5	127.3	114.0	104.5	98.8	95.0	91.2	87.4	85.5	83.6
75	96.9	85.5	77.9	74.1	72.2	66.5	62.7	58.9	55.1	51.3
80	53.2	47.5	47.5	43.7	39.9	36.1	32.3	30.4	30.4	32.3
85	20.9	17.1	17.1	17.1	15.2	13.3	13.3	13.3	13.3	15.2
90	1.9	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8

Vert. Angles **Horizontal Angles**

	<u>150</u>	<u>155</u>	<u>160</u>	<u>165</u>	<u>170</u>	<u>175</u>	<u>180</u>
0	1252.1	1252.1	1252.1	1252.1	1252.1	1252.1	1252.1
5	980.4	969.0	959.5	951.9	948.1	944.3	944.3
10	750.5	731.5	714.4	703.0	693.5	689.7	687.8
15	570.0	549.1	533.9	520.6	511.1	505.4	505.4
20	437.0	419.9	406.6	395.2	385.7	381.9	380.0
25	343.9	332.5	321.1	313.5	305.9	302.1	302.1
30	281.2	273.6	266.0	260.3	256.5	254.6	252.7
35	239.4	233.7	229.9	226.1	222.3	222.3	222.3
40	210.9	205.2	203.3	201.4	201.4	199.5	199.5
45	188.1	184.3	184.3	184.3	184.3	184.3	184.3
50	169.1	167.2	167.2	167.2	169.1	169.1	169.1
55	148.2	148.2	150.1	152.0	153.9	153.9	153.9
60	125.4	125.4	127.3	129.2	134.9	138.7	138.7
65	104.5	104.5	104.5	106.4	108.3	117.8	119.7
70	83.6	83.6	83.6	81.7	77.9	83.6	91.2
75	51.3	51.3	51.3	55.1	55.1	49.4	58.9
80	32.3	34.2	36.1	38.0	39.9	38.0	39.9
85	15.2	17.1	17.1	19.0	19.0	19.0	20.9
90	3.8	3.8	3.8	3.8	3.8	3.8	1.9

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	466.90	N.A.	14.90
0-30	1001.03	N.A.	32.00
0-40	1627.03	N.A.	52.00
0-60	2683.26	N.A.	85.70
0-80	3103.97	N.A.	99.20
0-90	3129.22	N.A.	100.00
10-90	3010.23	N.A.	96.20
20-40	1160.13	N.A.	37.10
20-50	1753.54	N.A.	56.00
40-70	1349.46	N.A.	43.10
60-80	420.71	N.A.	13.40
70-80	127.48	N.A.	4.10
80-90	25.26	N.A.	0.80
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	3129.22	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	118.99
10-20	347.91
20-30	534.14
30-40	626.00
40-50	593.40
50-60	462.82
60-70	293.23
70-80	127.48
80-90	25.26
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

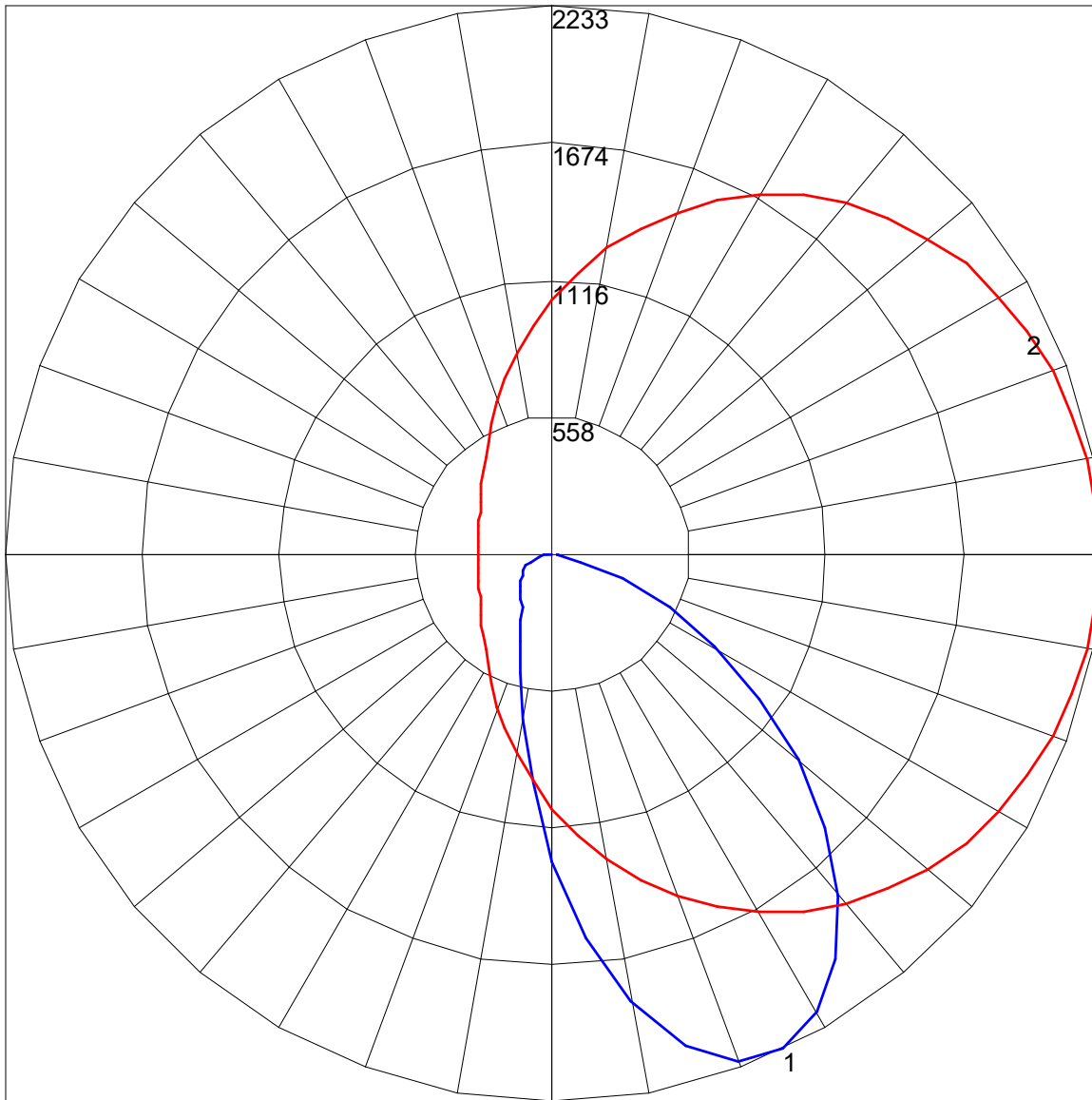
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	110	106	102	99	107	104	100	97	99	97	94	95	93	91	92	90	88	86
2	101	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76	74
3	93	83	75	69	90	81	74	69	78	72	68	76	71	66	73	69	65	63
4	85	74	66	60	83	73	65	59	70	64	58	68	62	58	66	61	57	55
5	79	67	58	52	77	65	57	52	63	56	51	61	55	50	60	54	50	48
6	73	60	52	46	71	59	51	45	57	50	45	56	49	45	54	49	44	42
7	68	55	46	40	66	54	46	40	52	45	40	51	45	40	50	44	39	38
8	63	50	42	36	62	49	42	36	48	41	36	47	40	36	46	40	36	34
9	59	46	38	33	58	45	38	33	44	37	33	43	37	32	42	36	32	30
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	34	29	28

POLAR GRAPH



Maximum Candela = 2232.5 Located At Horizontal Angle = 0, Vertical Angle = 25
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Horizontal Cone Through Vertical Angle (25) (Through Max. Cd.)