

IES Report

BoxRail® | 207 | 85° Asymmetric, down | 80 CRI | HO

207-BX-XX-4-48-XX-XX-XX-X-X-Z-HO-35-A1-X-AL / WH-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	67	69	71	71
Total Lumens, 4' rail length (1219mm)	3448	3557	3630	3630
Lumens per foot (305mm)	862	889	907	907
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_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-35-A1

[LUMINAIRE] BoxRail LED, 48", 3500K, 80 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	3623
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	70
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	40789	41848	33438
55	26801	28421	27225
65	14097	16727	21695
75	3407	7233	16602
85	490	578	8097

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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	1449.8	1449.8	1449.8	1449.8	1449.8	1449.8	1449.8	1449.8	1449.8	1449.8
5	1819.4	1817.2	1817.2	1801.8	1790.8	1777.6	1762.2	1742.4	1722.6	1698.4
10	2149.4	2147.2	2134.0	2118.6	2098.8	2074.6	2043.8	2006.4	1966.8	1922.8
15	2411.2	2406.8	2389.2	2369.4	2340.8	2303.4	2261.6	2215.4	2164.8	2107.6
20	2554.2	2547.6	2532.2	2510.2	2477.2	2439.8	2398.0	2347.4	2296.8	2222.0
25	2585.0	2576.2	2565.2	2541.0	2512.4	2477.2	2435.4	2395.8	2318.8	2239.6
30	2503.6	2494.8	2483.8	2464.0	2439.8	2411.2	2380.4	2323.2	2257.2	2186.8
35	2338.6	2329.8	2318.8	2305.6	2281.4	2255.0	2224.2	2169.2	2120.8	2052.6
40	2103.2	2096.6	2087.8	2074.6	2057.0	2032.8	1995.4	1955.8	1909.6	1845.8
45	1823.8	1819.4	1810.6	1799.6	1782.0	1762.2	1729.2	1700.6	1645.6	1595.0
50	1509.2	1507.0	1500.4	1493.8	1482.8	1465.2	1441.0	1405.8	1364.0	1313.4
55	1192.4	1188.0	1190.2	1185.8	1177.0	1166.0	1148.4	1115.4	1084.6	1047.2
60	884.4	884.4	886.6	888.8	886.6	877.8	866.8	849.2	822.8	796.4
65	605.0	609.4	613.8	616.0	618.2	618.2	613.8	607.2	594.0	576.4
70	352.0	356.4	365.2	371.8	380.6	387.2	391.6	396.0	391.6	385.0
75	136.4	145.2	158.4	165.0	176.0	193.6	204.6	213.4	220.0	224.4
80	22.0	35.2	30.8	35.2	39.6	46.2	52.8	63.8	72.6	85.8
85	17.6	17.6	17.6	17.6	17.6	15.4	15.4	13.2	13.2	15.4
90	19.8	19.8	19.8	19.8	17.6	17.6	17.6	15.4	15.4	13.2

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	1449.8	1449.8	1449.8	1449.8	1449.8	1449.8	1449.8	1449.8	1449.8	1449.8
5	1674.2	1647.8	1621.4	1590.6	1562.0	1531.2	1498.2	1467.4	1434.4	1405.8
10	1874.4	1826.0	1775.4	1716.0	1654.4	1592.8	1531.2	1467.4	1403.6	1344.2
15	2041.6	1964.6	1885.4	1804.0	1722.6	1632.4	1540.0	1449.8	1357.4	1273.8
20	2138.4	2048.2	1955.8	1845.8	1733.6	1625.8	1509.2	1394.8	1282.6	1174.8
25	2162.6	2065.8	1953.6	1845.8	1718.2	1592.8	1465.2	1333.2	1203.4	1080.2
30	2103.2	2010.8	1909.6	1782.0	1661.0	1520.2	1386.0	1240.8	1100.0	972.4
35	1971.2	1887.6	1777.6	1663.2	1533.4	1401.4	1267.2	1124.2	985.6	855.8
40	1775.4	1685.2	1590.6	1485.0	1361.8	1240.8	1108.8	981.2	855.8	737.0
45	1522.4	1447.6	1368.4	1269.4	1168.2	1060.4	943.8	831.6	719.4	618.2
50	1262.8	1196.8	1124.2	1049.4	965.8	871.2	763.4	662.2	594.0	508.2
55	1001.0	946.0	884.4	820.6	750.2	688.6	622.6	552.2	479.6	413.6
60	759.0	699.6	655.6	620.4	583.0	539.0	486.2	429.0	378.4	325.6
65	554.4	530.2	503.8	473.0	440.0	402.6	367.4	323.4	286.0	250.8
70	374.0	360.8	347.6	330.0	308.0	286.0	261.8	233.2	209.0	191.4
75	224.4	222.2	224.4	217.8	204.6	193.6	176.0	151.8	138.6	125.4
80	94.6	101.2	110.0	105.6	101.2	96.8	90.2	81.4	74.8	70.4
85	19.8	19.8	19.8	24.2	26.4	28.6	28.6	28.6	26.4	26.4
90	11.0	11.0	8.8	6.6	6.6	6.6	4.4	4.4	4.4	4.4

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	1449.8	1449.8	1449.8	1449.8	1449.8	1449.8	1449.8	1449.8	1449.8	1449.8
5	1375.0	1344.2	1315.6	1287.0	1260.6	1236.4	1212.2	1190.2	1170.4	1152.8
10	1287.0	1229.8	1172.6	1119.8	1069.2	1027.4	990.0	954.8	921.8	893.2
15	1190.2	1106.6	1034.0	965.8	904.2	844.8	789.8	748.0	715.0	686.4
20	1071.4	976.8	891.0	814.0	737.0	686.4	640.2	594.0	554.4	528.0
25	961.4	858.0	765.6	679.8	616.0	556.6	510.4	475.2	442.2	415.8
30	847.0	745.8	649.0	576.4	508.2	459.8	418.0	382.8	360.8	341.0
35	737.0	638.0	552.2	479.6	424.6	380.6	347.6	321.2	301.4	288.2

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CANDELA TABULATION - (Cont.)

40	629.2	534.6	464.2	402.6	356.4	321.2	294.8	277.2	261.8	250.8
45	528.0	446.6	387.2	338.8	299.2	272.8	255.2	239.8	231.0	222.2
50	435.6	374.0	321.2	283.8	257.4	235.4	220.0	211.2	202.4	198.0
55	354.2	305.8	268.4	237.6	215.6	202.4	191.4	184.8	178.2	173.8
60	283.8	248.6	220.0	198.0	180.4	169.4	162.8	156.2	149.6	147.4
65	220.0	195.8	176.0	158.4	147.4	138.6	132.0	127.6	125.4	123.2
70	165.0	147.4	132.0	121.0	114.4	110.0	105.6	101.2	99.0	96.8
75	112.2	99.0	90.2	85.8	83.6	77.0	72.6	68.2	63.8	59.4
80	61.6	55.0	55.0	50.6	46.2	41.8	37.4	35.2	35.2	37.4
85	24.2	19.8	19.8	19.8	17.6	15.4	15.4	15.4	15.4	17.6
90	2.2	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4

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	1449.8	1449.8	1449.8	1449.8	1449.8	1449.8	1449.8
5	1135.2	1122.0	1111.0	1102.2	1097.8	1093.4	1093.4
10	869.0	847.0	827.2	814.0	803.0	798.6	796.4
15	660.0	635.8	618.2	602.8	591.8	585.2	585.2
20	506.0	486.2	470.8	457.6	446.6	442.2	440.0
25	398.2	385.0	371.8	363.0	354.2	349.8	349.8
30	325.6	316.8	308.0	301.4	297.0	294.8	292.6
35	277.2	270.6	266.2	261.8	257.4	257.4	257.4
40	244.2	237.6	235.4	233.2	233.2	231.0	231.0
45	217.8	213.4	213.4	213.4	213.4	213.4	213.4
50	195.8	193.6	193.6	193.6	195.8	195.8	195.8
55	171.6	171.6	173.8	176.0	178.2	178.2	178.2
60	145.2	145.2	147.4	149.6	156.2	160.6	160.6
65	121.0	121.0	121.0	123.2	125.4	136.4	138.6
70	96.8	96.8	96.8	94.6	90.2	96.8	105.6
75	59.4	59.4	59.4	63.8	63.8	57.2	68.2
80	37.4	39.6	41.8	44.0	46.2	44.0	46.2
85	17.6	19.8	19.8	22.0	22.0	22.0	24.2
90	4.4	4.4	4.4	4.4	4.4	4.4	2.2

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	540.62	N.A.	14.90
0-30	1159.09	N.A.	32.00
0-40	1883.93	N.A.	52.00
0-60	3106.93	N.A.	85.70
0-80	3594.07	N.A.	99.20
0-90	3623.31	N.A.	100.00
10-90	3485.53	N.A.	96.20
20-40	1343.31	N.A.	37.10
20-50	2030.41	N.A.	56.00
40-70	1562.53	N.A.	43.10
60-80	487.14	N.A.	13.40
70-80	147.61	N.A.	4.10
80-90	29.24	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	3623.31	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	137.78
10-20	402.84
20-30	618.47
30-40	724.84
40-50	687.10
50-60	535.90
60-70	339.53
70-80	147.61
80-90	29.24
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

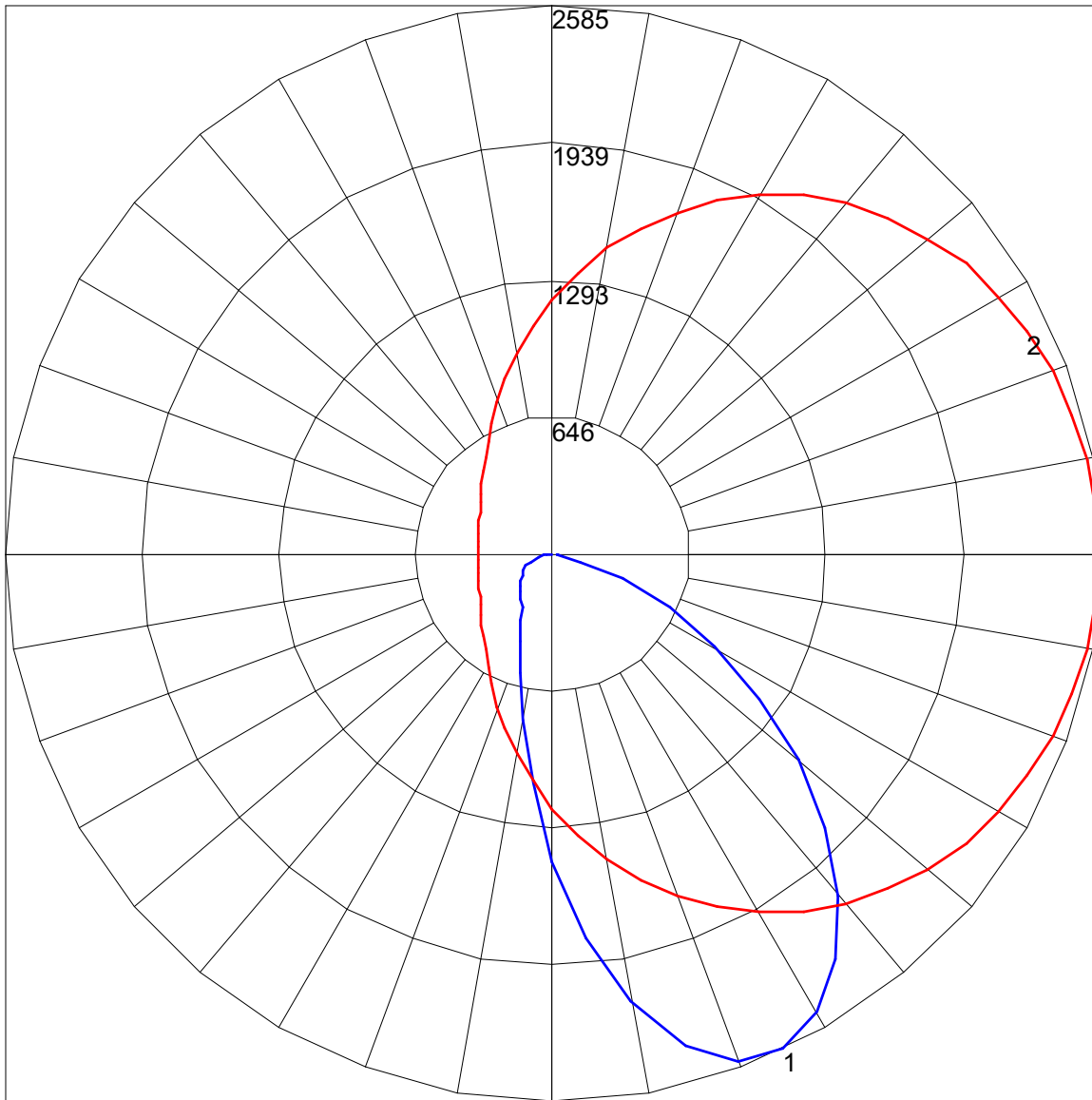
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 2585 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.)