

## IES Report

# BoxRail® | 207 | 120° Flying, down | 90 CRI | HO

207-BX-XX-4-48-XX-XX-XX-X-X-Z-HO-359-G2-X-BL-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	98	101	103	104
Total Lumens, 4' rail length (1219mm)	5042	5201	5308	5361
Lumens per foot (305mm)	1261	1300	1327	1340
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\_G2\_BL.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L022010914 (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-G2-BL

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

[MORE] 120° flywing 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	5308
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	103
Total Luminaire Watts	51.57
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.66
Spacing Criterion (90-270)	1.18
Spacing Criterion (Diagonal)	1.56
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	36724	38016	45459
55	26763	30158	43315
65	15965	19074	39326
75	4893	7920	30010
85	390	742	10600

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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>	1672.608	1672.608	1672.608	1672.608	1672.608	1672.608	1672.608	1672.608	1672.608	1672.608
<b>5</b>	1695.541	1694.249	1692.938	1690.981	1689.176	1687.257	1685.262	1683.172	1681.025	1678.840
<b>10</b>	1759.723	1756.987	1752.693	1747.772	1741.939	1735.270	1727.765	1715.947	1703.863	1691.456
<b>15</b>	1847.161	1843.019	1835.818	1827.154	1815.393	1796.830	1776.899	1755.771	1733.617	1707.530
<b>20</b>	1927.436	1922.078	1913.053	1900.266	1878.530	1854.704	1827.629	1793.885	1759.248	1723.338
<b>25</b>	1975.525	1968.837	1960.230	1941.287	1919.000	1890.025	1855.901	1820.846	1771.826	1720.849
<b>30</b>	1971.383	1965.854	1956.962	1938.475	1915.656	1887.460	1854.742	1809.066	1756.607	1698.790
<b>35</b>	1914.383	1908.246	1898.233	1884.838	1863.235	1839.200	1810.719	1759.799	1709.677	1648.573
<b>40</b>	1800.972	1797.210	1788.280	1775.854	1761.509	1745.017	1711.558	1671.924	1626.590	1564.099
<b>45</b>	1642.037	1639.263	1632.651	1623.778	1612.739	1600.389	1573.010	1546.828	1497.048	1448.959
<b>50</b>	1432.277	1428.344	1424.373	1422.074	1421.903	1414.493	1398.134	1375.790	1337.828	1288.352
<b>55</b>	1190.673	1189.343	1190.445	1190.160	1181.572	1170.248	1165.118	1151.552	1135.440	1111.215
<b>60</b>	942.381	940.196	935.769	919.714	912.361	907.554	908.580	905.141	898.985	883.785
<b>65</b>	685.159	681.663	651.149	645.601	651.966	659.148	666.083	664.430	660.972	657.248
<b>70</b>	411.065	395.200	386.688	396.378	412.319	422.864	429.172	436.867	444.543	446.557
<b>75</b>	195.890	180.481	196.859	203.167	208.259	215.194	219.716	222.984	236.816	245.708
<b>80</b>	46.664	57.665	55.765	59.432	62.301	67.545	72.732	81.206	87.951	101.764
<b>85</b>	14.022	16.644	15.694	15.352	15.105	15.504	14.516	15.238	16.834	19.779
<b>90</b>	13.224	13.452	13.452	13.376	13.376	13.224	13.053	12.578	11.875	11.077

**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>	1672.608	1672.608	1672.608	1672.608	1672.608	1672.608	1672.608	1672.608	1672.608
<b>5</b>	1676.636	1674.413	1672.190	1670.005	1667.858	1665.749	1663.621	1661.721	1659.878
<b>10</b>	1678.859	1666.129	1653.608	1647.262	1641.334	1635.824	1630.751	1626.039	1622.125
<b>15</b>	1682.298	1660.144	1638.465	1617.413	1596.722	1586.652	1577.912	1570.027	1563.985
<b>20</b>	1684.331	1643.196	1603.638	1573.105	1544.434	1517.340	1505.009	1494.559	1487.377
<b>25</b>	1670.024	1616.216	1563.168	1512.742	1474.533	1440.789	1415.899	1402.998	1394.847
<b>30</b>	1635.653	1570.654	1506.529	1446.394	1391.161	1352.553	1318.353	1304.331	1296.104
<b>35</b>	1577.779	1507.631	1432.467	1363.478	1302.374	1254.589	1218.527	1199.413	1188.754
<b>40</b>	1495.642	1416.697	1339.652	1264.564	1201.655	1149.538	1114.312	1092.386	1081.423
<b>45</b>	1374.650	1303.476	1227.210	1154.079	1091.075	1040.839	1008.178	987.734	978.044
<b>50</b>	1231.466	1163.465	1094.001	1028.223	970.007	928.093	898.871	879.909	870.390
<b>55</b>	1056.932	1001.243	945.516	887.281	841.434	805.847	780.368	766.422	763.040
<b>60</b>	859.465	824.277	776.397	730.930	696.046	670.282	653.258	642.694	638.666
<b>65</b>	648.641	625.518	597.512	574.028	554.496	538.384	528.694	521.094	518.415
<b>70</b>	444.942	439.774	430.160	418.551	408.804	397.423	390.868	387.695	385.263
<b>75</b>	254.809	265.259	266.057	260.148	257.298	255.949	248.957	246.449	250.534
<b>80</b>	103.189	112.157	119.092	130.226	142.462	142.519	139.878	137.465	137.769
<b>85</b>	22.344	22.990	24.301	27.987	29.925	31.901	32.851	33.687	34.561
<b>90</b>	10.203	9.234	8.284	7.334	6.365	5.415	4.617	4.389	4.617

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	644.12	N.A.	12.10
0-30	1428.19	N.A.	26.90
0-40	2424.37	N.A.	45.70
0-60	4394.79	N.A.	82.80
0-80	5266.19	N.A.	99.20
0-90	5307.55	N.A.	100.00
10-90	5146.94	N.A.	97.00
20-40	1780.25	N.A.	33.50
20-50	2833.66	N.A.	53.40
40-70	2583.22	N.A.	48.70
60-80	871.40	N.A.	16.40
70-80	258.60	N.A.	4.90
80-90	41.36	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	5307.55	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	160.61
10-20	483.51
20-30	784.07
30-40	996.18
40-50	1053.41
50-60	917.01
60-70	612.80
70-80	258.60
80-90	41.36
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

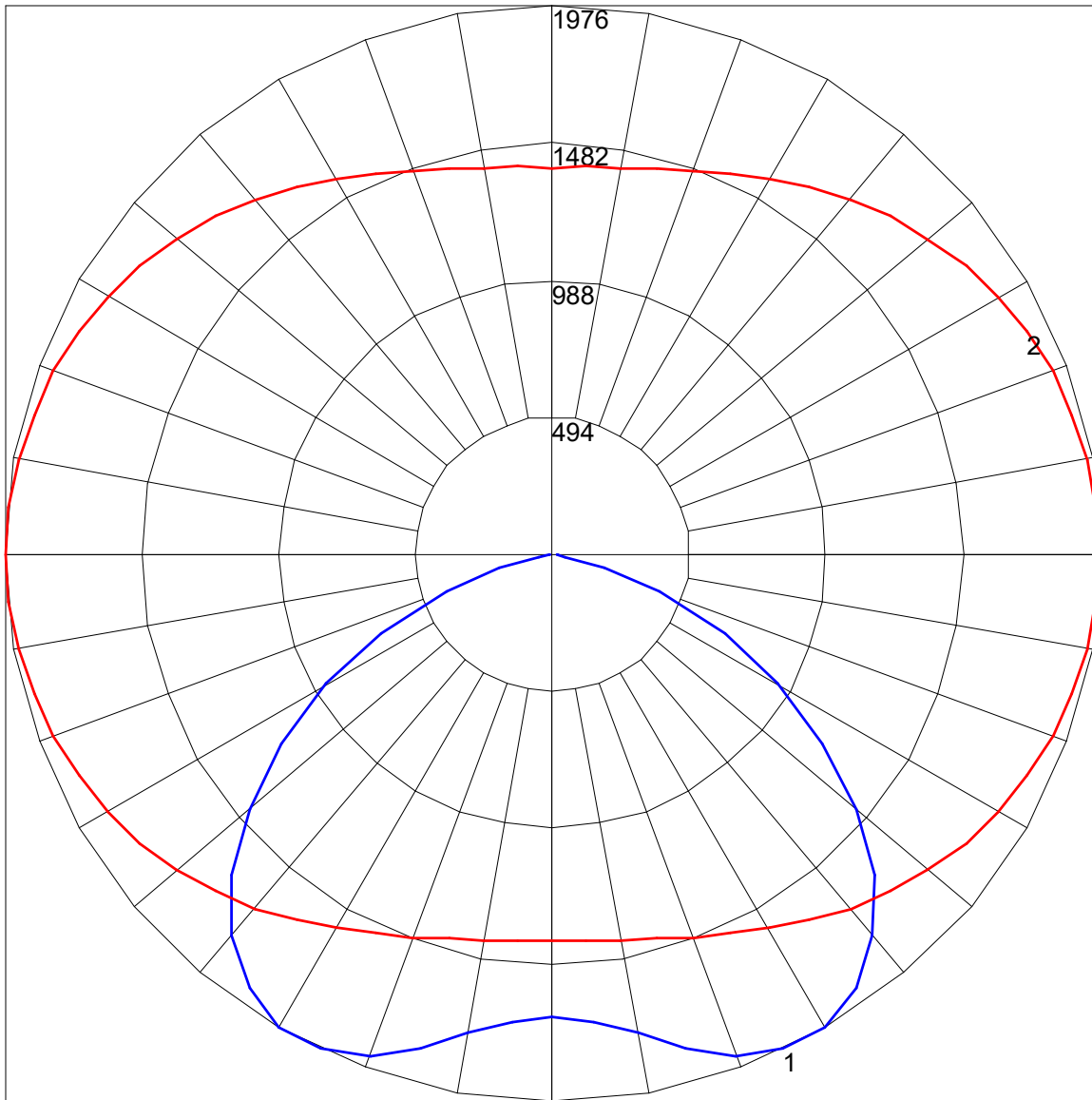
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	109	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51
5	76	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	46	44
6	71	57	48	42	69	56	48	42	55	47	41	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	46	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	26	38	31	26	37	31	26	36	30	26	24

POLAR GRAPH



Maximum Candela = 1975.525 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.)