

## IES Report

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

207-BX-XX-4-48-XX-XX-XX-X-X-Z-HO-359-G2-X-AL / WH-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	101	104	106	107
Total Lumens, 4' rail length (1219mm)	5178	5341	5450	5505
Lumens per foot (305mm)	1294	1335	1363	1376
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.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L022012001 (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

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

[MORE] 120° flywing 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	5450
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	106
Total Luminaire Watts	51.57
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.64
Spacing Criterion (90-270)	1.18
Spacing Criterion (Diagonal)	1.54
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	37187	38750	47170
55	27446	30703	44833
65	15795	19842	40619
75	5068	8087	30982
85	571	946	11433

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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>	1728.354	1728.354	1728.354	1728.354	1728.354	1728.354	1728.354	1728.354	1728.354	1728.354
<b>5</b>	1751.610	1750.413	1749.178	1747.335	1745.606	1743.744	1741.787	1739.735	1737.607	1735.403
<b>10</b>	1816.913	1814.234	1810.016	1805.152	1799.376	1792.764	1785.297	1773.232	1760.901	1748.247
<b>15</b>	1904.332	1900.532	1893.616	1885.218	1873.571	1854.628	1834.317	1812.828	1790.332	1763.732
<b>20</b>	1983.334	1978.052	1969.084	1956.392	1934.371	1910.412	1883.280	1849.441	1814.633	1778.039
<b>25</b>	2026.331	2019.320	2010.637	1991.523	1969.293	1940.698	1907.372	1873.590	1824.437	1773.327
<b>30</b>	2014.399	2008.205	1999.123	1980.921	1958.767	1931.350	1899.810	1856.319	1804.962	1747.848
<b>35</b>	1945.752	1939.672	1929.944	1917.271	1897.473	1875.167	1847.845	1798.901	1750.109	1690.392
<b>40</b>	1826.622	1822.461	1813.588	1801.694	1787.767	1770.876	1739.583	1702.780	1659.403	1598.660
<b>45</b>	1662.728	1660.904	1654.387	1645.894	1634.950	1623.094	1596.152	1570.274	1523.021	1476.927
<b>50</b>	1459.352	1456.141	1451.733	1447.952	1444.323	1434.633	1418.141	1394.980	1359.659	1311.399
<b>55</b>	1221.092	1217.938	1218.318	1218.755	1214.366	1200.477	1194.777	1178.323	1159.817	1131.298
<b>60</b>	967.708	965.998	962.350	946.580	942.742	938.429	937.213	935.997	926.326	908.979
<b>65</b>	677.844	679.649	668.002	661.656	663.005	675.032	676.894	673.949	680.675	683.715
<b>70</b>	411.065	401.413	401.622	405.327	424.308	429.590	438.824	446.462	455.715	458.527
<b>75</b>	202.901	191.368	206.701	210.691	215.802	223.098	228.874	234.783	247.076	250.895
<b>80</b>	56.696	67.127	63.878	67.526	71.383	74.271	79.401	89.338	93.670	107.103
<b>85</b>	20.539	22.192	22.325	22.116	21.945	21.869	21.090	21.356	22.743	25.213
<b>90</b>	12.350	12.426	12.350	12.350	12.255	12.027	11.875	11.476	10.906	10.355

**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>	1728.354	1728.354	1728.354	1728.354	1728.354	1728.354	1728.354	1728.354	1728.354
<b>5</b>	1733.161	1730.900	1728.620	1726.340	1724.098	1721.875	1719.595	1717.600	1715.605
<b>10</b>	1735.384	1722.369	1709.563	1703.027	1696.966	1691.361	1686.231	1681.462	1677.548
<b>15</b>	1737.949	1715.339	1693.337	1672.095	1651.290	1641.543	1633.202	1625.754	1620.206
<b>20</b>	1738.462	1697.004	1657.275	1626.647	1597.862	1570.597	1558.456	1548.158	1541.223
<b>25</b>	1722.711	1668.865	1615.646	1565.201	1526.631	1492.393	1467.161	1454.146	1445.976
<b>30</b>	1685.528	1620.624	1556.366	1496.155	1440.960	1401.763	1367.126	1352.534	1343.889
<b>35</b>	1621.498	1552.756	1478.048	1409.515	1348.677	1300.968	1264.792	1245.393	1234.468
<b>40</b>	1533.015	1456.255	1380.350	1305.813	1243.227	1191.490	1156.511	1134.623	1123.470
<b>45</b>	1405.924	1337.372	1262.778	1190.312	1128.125	1079.713	1046.425	1024.974	1014.847
<b>50</b>	1256.052	1192.041	1124.420	1059.953	1001.775	960.963	931.190	911.487	902.880
<b>55</b>	1077.262	1022.200	968.335	913.026	866.438	833.093	809.191	793.782	789.792
<b>60</b>	879.510	840.864	792.832	747.004	710.448	684.247	667.337	655.196	652.840
<b>65</b>	669.408	639.350	609.482	585.029	566.333	551.912	543.609	538.555	535.458
<b>70</b>	457.045	453.340	442.909	428.146	415.739	406.429	402.268	399.855	397.537
<b>75</b>	259.236	267.615	272.137	267.406	262.295	260.737	255.436	254.752	258.647
<b>80</b>	107.331	114.304	123.101	137.237	143.222	142.804	139.650	138.947	139.365
<b>85</b>	27.113	28.120	29.564	32.110	32.927	34.656	34.485	35.207	37.278
<b>90</b>	9.481	8.759	7.961	7.163	6.536	5.814	5.092	5.263	5.092

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fxt
0-20	665.35	N.A.	12.20
0-30	1473.04	N.A.	27.00
0-40	2494.54	N.A.	45.80
0-60	4510.81	N.A.	82.80
0-80	5404.86	N.A.	99.20
0-90	5450.18	N.A.	100.00
10-90	5284.19	N.A.	97.00
20-40	1829.19	N.A.	33.60
20-50	2905.69	N.A.	53.30
40-70	2643.77	N.A.	48.50
60-80	894.05	N.A.	16.40
70-80	266.56	N.A.	4.90
80-90	45.32	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	5450.18	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	165.99
10-20	499.36
20-30	807.69
30-40	1021.5
40-50	1076.51
50-60	939.77
60-70	627.49
70-80	266.56
80-90	45.32
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

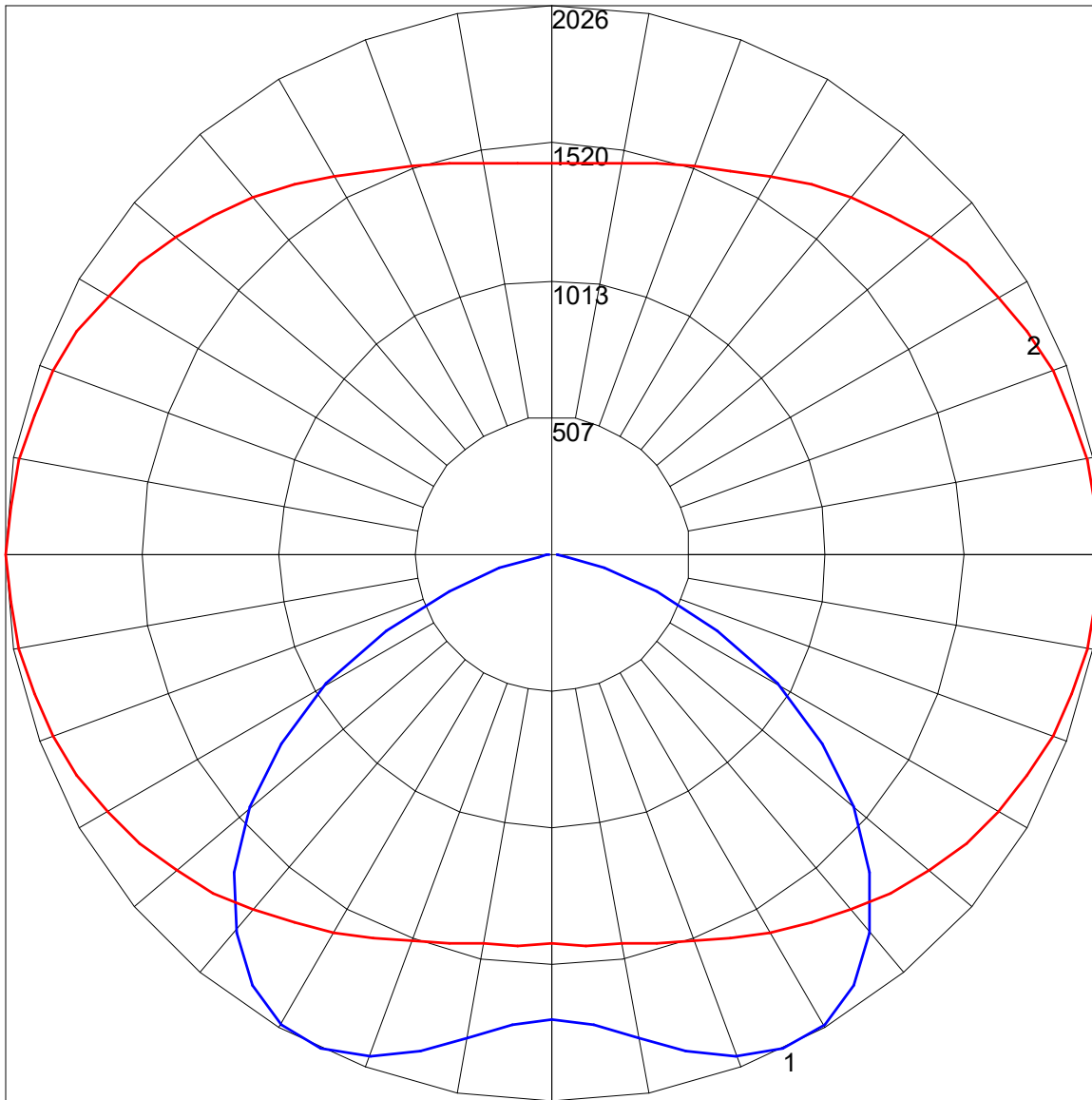
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	98	95	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	63	60
4	83	72	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	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	47	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	27	38	31	26	37	31	26	36	30	26	24

POLAR GRAPH



Maximum Candela = 2026.331 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.)