

IES Report

BoxRail® | 107 | 85° Asymmetric | 90 CRI | HO

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

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	59	60	62	62
Total Lumens, 4' rail length (1219mm)	2848	2938	2998	3028
Lumens per foot (305mm)	712	735	750	757
Input Power (W), 4' rail length (1219mm)	49.1	49.1	49.1	49.1
Watts per foot (305mm)	12.3	12.3	12.3	12.3
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_107_BX_HO_359_A1.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L121911511 (SOURCE REPORT FOR REFERENCE)

[TESTLAB] REPORT BASED ON DATA FROM NVLAP ACCREDITED LAB

[ISSUE DATE] 12/23/2019

[MANUFAC] Vode Lighting

[LUMCAT] 107-BX-48-Z-HO-359-A1-AL

[LUMINAIRE] BoxRail LED, 48", 3500K, 90 CRI, zipper board, 85° white asymmetric lens,

[MORE] 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	2999
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	61
Total Luminaire Watts	49.06
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.78
Spacing Criterion (90-270)	1.10
Spacing Criterion (Diagonal)	1.24
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.04 ft
Luminous Width (90-270)	3.84 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	148893	121849	56597
55	123174	97649	44830
65	86278	73295	36172
75	37483	47176	28350
85	519	763	17918

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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	1369.691	1369.691	1369.691	1369.691	1369.691	1369.691	1369.691	1369.691	1369.691	1369.691
5	1609.224	1606.032	1604.436	1599.990	1594.727	1588.362	1579.926	1572.269	1560.014	1547.740
10	1872.963	1868.992	1864.850	1855.597	1844.292	1828.218	1809.256	1788.394	1761.965	1733.921
15	2037.959	2034.311	2029.200	2018.066	2002.296	1983.809	1959.926	1932.053	1897.644	1859.112
20	2102.635	2101.837	2094.978	2084.148	2068.549	2047.839	2023.158	1991.618	1954.036	1911.039
25	2083.825	2081.279	2074.762	2064.559	2048.789	2028.725	2002.296	1969.806	1929.184	1884.743
30	2004.196	2001.650	1995.114	1983.980	1966.937	1944.631	1916.454	1882.045	1838.402	1789.344
35	1878.701	1875.832	1868.669	1856.243	1836.806	1811.650	1779.635	1739.184	1692.045	1638.693
40	1710.190	1707.815	1699.835	1685.984	1664.647	1637.097	1600.294	1554.903	1504.097	1446.451
45	1503.793	1500.753	1493.761	1480.062	1458.079	1428.781	1390.705	1343.566	1290.537	1230.649
50	1264.887	1262.816	1257.078	1244.975	1226.507	1196.563	1160.254	1116.459	1065.957	1012.928
55	1009.109	1007.513	1003.219	994.935	980.115	957.030	926.459	887.908	844.740	799.995
60	753.331	752.856	751.412	746.966	737.561	722.266	700.606	672.581	640.566	608.076
65	520.809	521.113	521.911	521.588	518.244	511.252	499.453	482.733	462.821	442.434
70	313.120	314.070	316.616	319.808	322.677	323.152	320.929	315.191	307.059	297.198
75	138.567	139.669	143.659	149.226	156.237	163.723	169.613	173.432	175.028	174.401
80	21.033	21.508	22.933	25.954	30.267	36.480	44.593	54.302	63.859	71.668
85	0.646	0.646	0.646	0.646	0.646	0.646	0.646	0.646	0.646	0.950
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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	1369.691	1369.691	1369.691	1369.691	1369.691	1369.691	1369.691	1369.691	1369.691	1369.691
5	1535.162	1519.392	1499.328	1478.143	1456.654	1433.873	1409.971	1385.138	1359.488	1327.796
10	1703.198	1666.072	1624.671	1580.401	1535.010	1486.104	1435.621	1382.592	1329.392	1278.586
15	1816.590	1765.784	1707.967	1645.381	1579.755	1509.037	1435.298	1357.588	1280.011	1202.776
20	1861.981	1803.366	1736.163	1660.980	1581.351	1492.963	1399.787	1302.469	1205.322	1106.579
25	1831.087	1768.178	1695.389	1613.366	1525.776	1424.943	1320.481	1210.110	1099.891	996.360
30	1733.294	1667.668	1592.504	1507.935	1416.982	1313.147	1204.524	1088.909	974.548	866.723
35	1579.432	1511.754	1436.096	1353.123	1263.937	1163.123	1057.521	946.675	836.627	732.621
40	1384.663	1317.137	1243.702	1165.669	1083.969	992.066	897.617	800.318	698.535	607.126
45	1170.286	1105.154	1039.053	968.335	897.313	818.938	734.844	644.385	571.615	495.634
50	954.009	899.213	842.042	783.427	724.508	660.953	595.650	528.599	462.194	397.366
55	753.483	709.213	664.297	618.279	574.788	526.224	471.903	419.349	367.270	315.666
60	576.384	544.046	510.758	477.318	443.555	406.923	367.118	327.446	286.672	247.342
65	420.945	399.114	377.777	355.794	332.063	305.634	276.963	247.817	218.348	188.898
70	286.520	274.740	262.466	248.938	233.491	216.448	197.961	178.068	157.985	138.890
75	172.330	168.511	163.571	157.358	149.397	139.669	129.010	117.059	104.804	93.499
80	77.254	80.427	81.377	80.750	78.679	74.860	70.243	64.828	58.767	53.352
85	3.021	7.961	15.618	21.337	24.206	25.004	24.681	23.731	22.306	21.337
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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	1369.691	1369.691	1369.691	1369.691	1369.691	1369.691	1369.691	1369.691	1369.691	1369.691
5	1303.913	1276.040	1252.157	1230.326	1207.545	1186.854	1167.892	1148.626	1254.855	1244.025
10	1229.053	1179.045	1130.158	1085.394	1040.478	1018.020	983.459	947.321	918.479	890.777
15	1130.310	1057.996	989.672	927.086	865.773	812.421	764.313	817.190	778.658	747.593
20	1016.918	928.834	847.457	774.991	706.021	721.468	667.964	618.583	581.324	550.107
25	897.313	801.268	714.628	639.616	569.848	513.475	465.861	432.250	398.962	371.564
30	765.586	670.358	586.416	515.546	451.991	402.306	365.047	330.163	303.411	282.530
35	637.868	550.430	474.297	412.813	358.834	318.212	287.318	259.920	239.704	224.409

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CANDELA TABULATION - (Cont.)

40	523.355	447.374	383.192	332.234	289.066	256.728	231.572	212.629	198.132	186.979
45	425.391	362.330	310.251	269.629	235.391	211.508	192.869	178.220	167.865	160.227
50	339.245	289.712	250.040	218.519	193.192	175.028	161.823	153.368	145.882	140.638
55	271.548	232.693	202.578	178.847	160.379	148.428	138.719	131.708	126.939	123.747
60	213.902	184.756	161.823	145.407	133.152	123.918	117.382	117.059	113.715	111.492
65	164.844	145.255	128.839	116.907	107.825	101.460	97.470	94.772	93.005	92.055
70	122.645	108.623	97.945	90.136	84.417	80.598	78.204	76.608	75.810	75.335
75	83.771	75.658	69.445	65.132	61.959	60.211	59.242	58.615	58.444	58.615
80	49.058	45.714	43.168	41.572	40.774	40.299	40.451	40.622	41.249	41.895
85	21.033	21.033	21.337	21.660	22.306	23.256	23.883	24.206	24.054	23.883
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Horizontal Angles

	<u>150</u>	<u>155</u>	<u>160</u>	<u>165</u>	<u>170</u>	<u>175</u>	<u>180</u>
0	1369.691	1369.691	1369.691	1369.691	1369.691	1369.691	1369.691
5	1238.135	1236.539	1238.933	1245.298	1248.319	1242.752	1383.067
10	868.642	954.807	946.998	943.654	941.108	932.501	1056.571
15	720.670	702.354	688.351	679.592	673.056	663.974	759.069
20	525.578	508.535	493.088	482.733	475.722	467.438	531.943
25	349.581	332.861	360.411	351.177	344.812	338.599	379.696
30	265.658	276.488	272.023	265.012	259.920	255.778	280.953
35	212.135	223.611	215.973	211.033	207.993	204.972	220.419
40	178.847	172.805	180.291	177.099	175.351	173.603	183.483
45	155.914	160.379	157.681	155.914	155.135	154.337	161.177
50	137.123	139.840	139.365	138.719	138.396	138.092	142.709
55	121.676	124.868	124.222	123.918	123.595	123.424	126.768
60	110.219	109.573	109.421	109.250	109.250	109.098	111.796
65	91.428	94.126	94.126	94.449	94.772	94.449	96.520
70	75.335	77.729	78.033	78.356	78.679	78.679	80.598
75	58.938	61.009	61.484	61.959	62.282	62.434	63.707
80	42.522	44.270	44.916	45.391	46.037	46.341	47.462
85	23.883	24.054	24.852	25.004	25.327	25.479	26.125
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	501.56	N.A.	16.70
0-30	1034.88	N.A.	34.50
0-40	1625.87	N.A.	54.20
0-60	2589.82	N.A.	86.40
0-80	2976.32	N.A.	99.20
0-90	2998.91	N.A.	100.00
10-90	2867.86	N.A.	95.60
20-40	1124.31	N.A.	37.50
20-50	1667.85	N.A.	55.60
40-70	1230.9	N.A.	41.00
60-80	386.49	N.A.	12.90
70-80	119.55	N.A.	4.00
80-90	22.59	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	2998.91	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	131.04
10-20	370.52
20-30	533.32
30-40	590.99
40-50	543.54
50-60	420.41
60-70	266.95
70-80	119.55
80-90	22.59
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

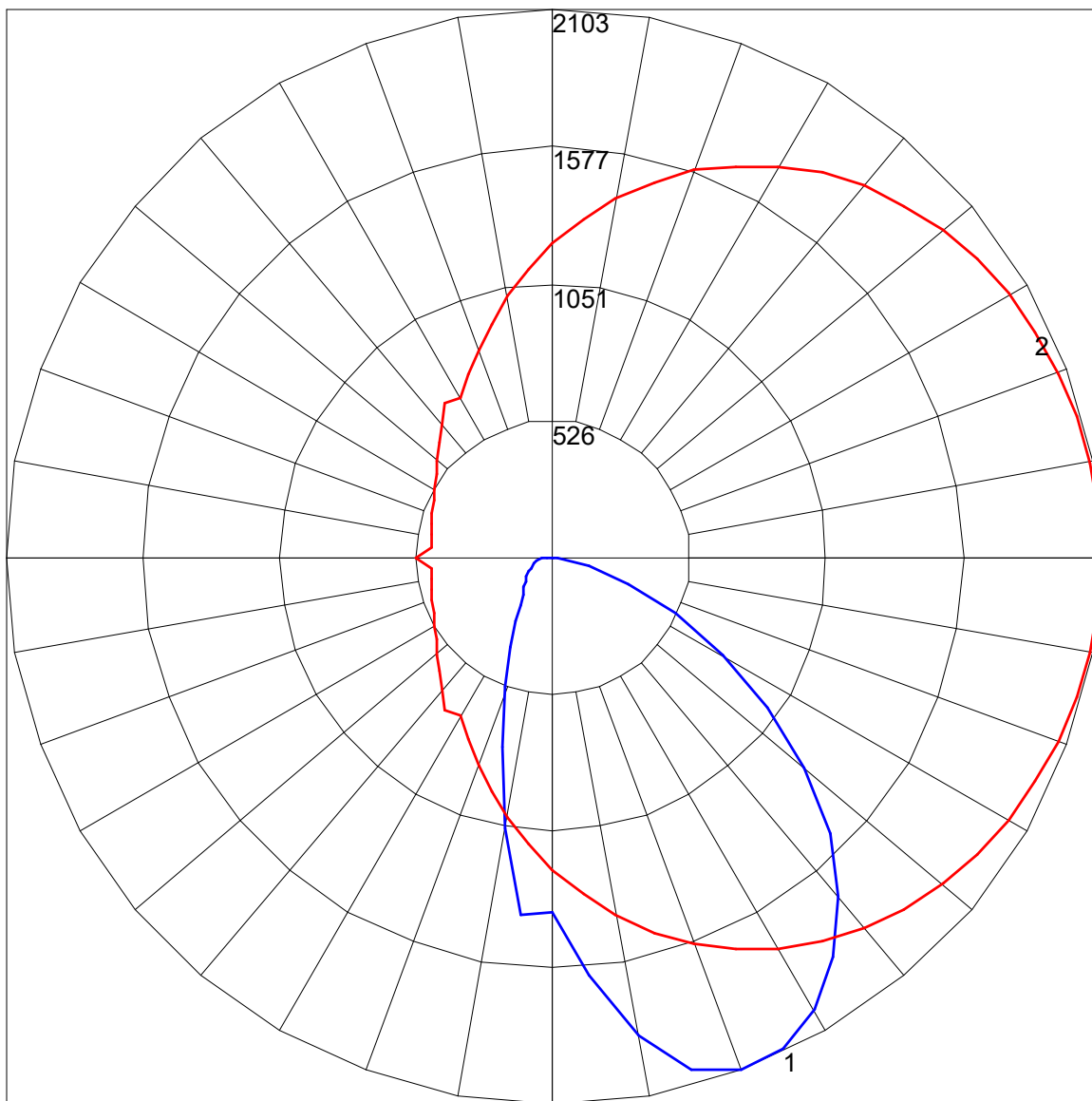
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	108	104	100	97	100	97	94	96	94	91	92	90	89	87
2	101	94	88	83	99	92	87	82	89	84	80	85	82	78	82	79	76	74
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56
5	79	68	59	53	77	66	59	53	64	58	52	62	56	52	61	55	51	49
6	74	61	53	47	72	60	52	47	59	52	46	57	51	46	55	50	46	44
7	69	56	48	42	67	55	47	42	54	47	41	52	46	41	51	45	41	39
8	64	51	43	38	63	51	43	38	49	42	37	48	42	37	47	41	37	35
9	60	47	40	34	59	47	39	34	46	39	34	45	38	34	44	38	34	32
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	41	35	31	29

POLAR GRAPH



Maximum Candela = 2102.635 Located At Horizontal Angle = 0, Vertical Angle = 20
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Horizontal Cone Through Vertical Angle (20) (Through Max. Cd.)