

IES Report

BoxRail® | 107 | 60° Symmetric | 90 CRI | HO

107-BX-XX-4-48-XX-XX-XX-XX-X-X-Z-HO-359-S2-X-BL-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	36	37	38	38
Total Lumens, 4' rail length (1219mm)	1745	1801	1837	1856
Lumens per foot (305mm)	436	450	459	464
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_S2_BL.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L121911513 (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-S2-BL
[LUMINAIRE] BoxRail LED, 48", 3500K, 90 CRI, zipper board, 60° black symmetric 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	1837
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	37
Total Luminaire Watts	49.06
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.74
Spacing Criterion (90-270)	1.08
Spacing Criterion (Diagonal)	0.88
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.02 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	28008	46423	104882
55	13103	22728	60693
65	7491	12981	35675
75	4821	8182	21977
85	244	2808	11783

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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>
0.0	1715.586	1715.586	1715.586	1715.586	1715.586	1715.586	1715.586	1715.586	1715.586	1715.586
1.0	1639.472	1651.271	1650.074	1661.930	1698.163	1719.272	1733.446	1742.376	1749.216	1761.471
3.0	1646.483	1655.964	1655.337	1671.810	1703.673	1721.495	1732.648	1744.523	1759.894	1773.422
5.0	1641.714	1647.452	1648.725	1661.379	1692.045	1709.240	1719.348	1735.669	1755.752	1768.558
7.0	1596.000	1599.021	1603.011	1613.594	1651.024	1667.592	1675.401	1689.651	1708.214	1734.719
9.0	1540.577	1542.401	1546.866	1558.342	1597.045	1611.694	1625.469	1645.286	1679.543	1699.930
11.0	1469.707	1468.035	1473.526	1481.487	1518.290	1536.682	1545.840	1569.248	1614.962	1644.982
13.0	1381.471	1377.652	1382.668	1390.629	1424.316	1444.532	1458.630	1491.120	1539.152	1576.259
15.0	1292.133	1287.820	1294.907	1301.120	1331.311	1353.921	1373.586	1424.240	1470.980	1512.077
17.0	1193.694	1186.132	1195.043	1202.453	1228.806	1248.319	1267.680	1311.950	1364.352	1414.512
19.5	1062.309	1053.379	1063.810	1067.002	1092.158	1110.322	1142.166	1199.584	1256.451	1308.682
22.5	898.890	887.984	896.515	893.646	913.938	938.068	967.613	1019.388	1084.596	1143.363
25.5	749.512	737.086	748.144	755.402	767.429	790.286	824.353	876.926	937.992	1000.977
29.0	581.001	570.019	578.854	571.691	582.521	603.459	637.070	682.613	743.926	807.006
33.0	418.703	408.747	418.475	427.310	431.129	439.964	466.963	507.262	559.987	615.239
37.5	278.711	272.023	279.680	274.569	280.459	294.082	317.661	351.348	392.274	439.964
42.5	174.724	169.689	174.401	179.246	180.614	184.756	199.956	221.540	250.135	285.000
47.5	108.148	105.279	108.148	110.295	111.416	115.235	125.495	140.239	160.626	183.863
55.0	53.675	52.326	53.751	53.827	54.948	57.494	62.662	70.072	80.978	93.100
65.0	22.610	22.135	22.781	22.933	23.332	24.453	26.600	29.868	34.086	39.178
75.0	8.911	8.835	9.082	9.006	9.234	9.880	10.678	11.628	13.300	15.124
85.0	0.152	0.152	0.152	0.152	0.152	0.323	0.475	0.722	1.197	1.748
90.0	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>
0.0	1715.586	1715.586	1715.586	1715.586	1715.586	1715.586	1715.586	1715.586	1715.586
1.0	1772.301	1778.761	1786.570	1795.158	1800.098	1804.164	1806.387	1807.584	1809.902
3.0	1780.908	1791.187	1796.925	1801.447	1802.967	1806.634	1808.629	1809.427	1810.377
5.0	1778.685	1783.853	1788.394	1788.546	1792.384	1796.355	1799.775	1802.017	1801.941
7.0	1751.534	1758.298	1762.440	1766.411	1772.149	1776.937	1782.105	1783.853	1784.575
9.0	1716.650	1727.404	1735.042	1740.932	1747.867	1755.657	1760.844	1764.910	1766.411
11.0	1668.238	1682.488	1691.570	1702.552	1714.655	1724.535	1732.173	1736.562	1738.538
13.0	1602.612	1629.212	1643.861	1660.106	1675.078	1687.181	1696.491	1703.179	1706.048
15.0	1541.299	1569.077	1590.262	1611.770	1630.808	1646.806	1659.707	1667.991	1669.416
17.0	1455.134	1485.781	1515.250	1542.971	1567.101	1586.367	1601.738	1612.321	1615.912
19.5	1351.850	1387.836	1424.639	1459.751	1490.721	1517.397	1536.758	1549.659	1554.903
22.5	1208.438	1255.007	1300.094	1343.813	1383.067	1414.683	1438.965	1455.134	1461.898
25.5	1055.621	1110.721	1164.225	1216.304	1262.094	1299.448	1327.473	1346.188	1353.123
29.0	871.663	932.824	991.914	1054.101	1106.826	1150.925	1184.384	1205.645	1213.131
33.0	676.400	740.430	802.864	864.975	920.151	966.587	1001.870	1025.107	1033.638
37.5	491.739	546.288	604.409	663.024	713.184	764.085	800.470	824.277	833.112
42.5	327.123	372.362	418.950	466.640	513.152	555.750	587.689	608.798	616.683
47.5	213.332	244.872	280.630	318.687	355.490	390.526	417.354	434.796	442.605
55.0	108.946	126.464	146.680	169.784	192.318	213.655	231.895	243.998	248.615
65.0	45.467	52.725	61.237	70.870	80.978	91.105	99.617	105.355	107.673
75.0	17.518	20.235	23.256	26.999	30.666	34.409	37.506	39.824	40.622
85.0	2.869	3.819	4.541	5.263	5.738	6.365	6.935	7.163	7.334
90.0	0.000	0.000	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	551.39	N.A.	30.00
0-30	1003.79	N.A.	54.60
0-40	1339.31	N.A.	72.90
0-60	1706.71	N.A.	92.90
0-80	1824.21	N.A.	99.30
0-90	1837.08	N.A.	100.00
10-90	1704.06	N.A.	92.80
20-40	787.92	N.A.	42.90
20-50	1043.94	N.A.	56.80
40-70	448.60	N.A.	24.40
60-80	117.50	N.A.	6.40
70-80	36.30	N.A.	2.00
80-90	12.87	N.A.	0.70
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	1837.08	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	133.02
10-20	418.37
20-30	452.40
30-40	335.52
40-50	256.02
50-60	111.38
60-70	81.20
70-80	36.30
80-90	12.87
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

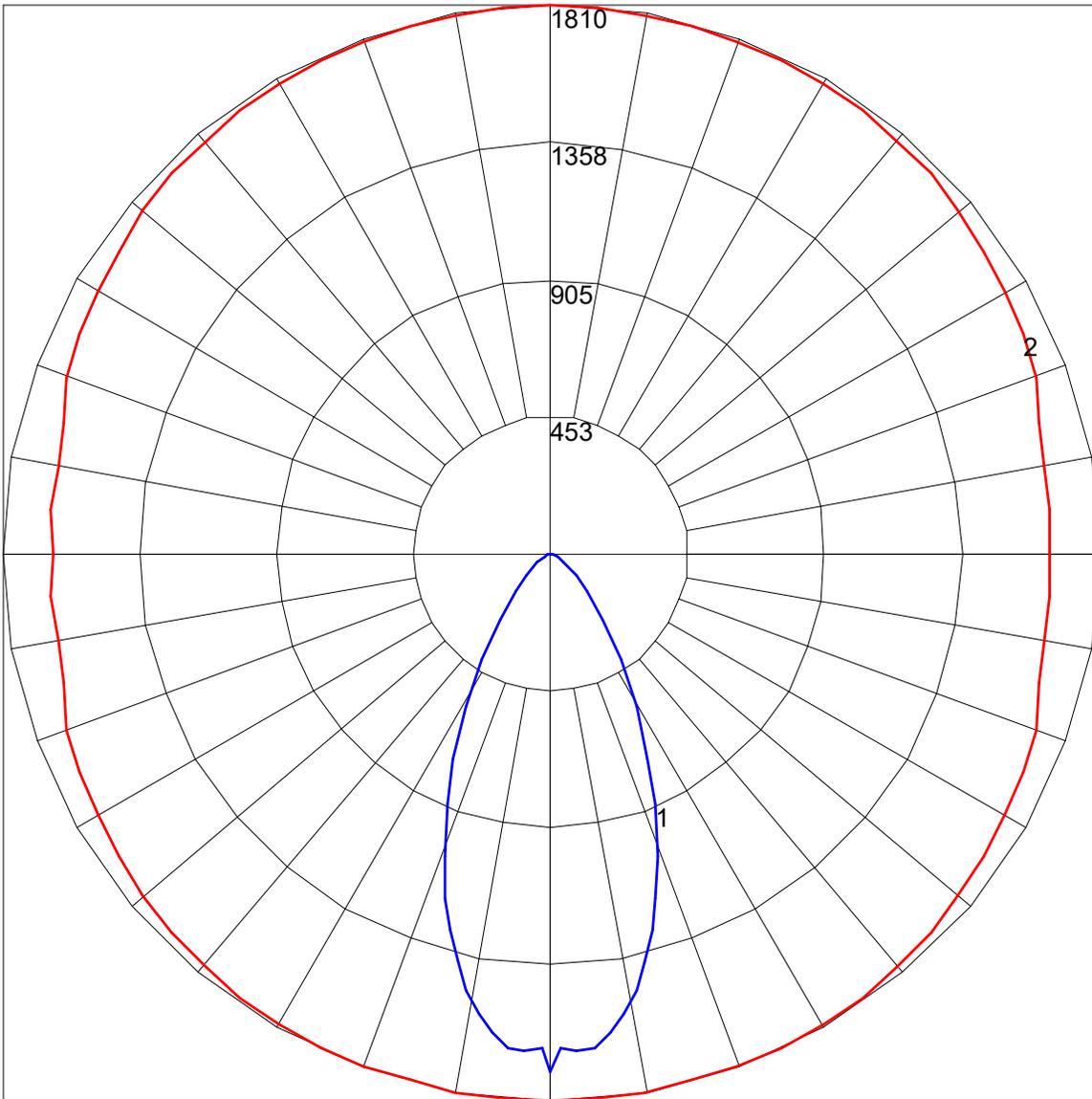
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90
2	105	99	94	89	102	97	92	88	94	90	86	90	87	85	88	85	83	81
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75	73
4	92	83	76	71	90	82	75	71	79	74	70	77	73	69	75	71	68	66
5	86	76	69	64	85	75	69	64	73	68	63	72	67	63	70	66	62	60
6	81	71	64	59	80	70	63	58	68	62	58	67	61	57	65	61	57	55
7	77	66	59	54	75	65	58	54	64	58	53	62	57	53	61	56	53	51
8	72	61	54	50	71	61	54	50	60	54	49	58	53	49	57	52	49	47
9	68	57	51	46	67	57	50	46	56	50	46	55	49	46	54	49	45	44
10	65	54	47	43	64	53	47	43	53	47	43	52	46	43	51	46	42	41

POLAR GRAPH



Maximum Candela = 1810.377 Located At Horizontal Angle = 90, Vertical Angle = 3
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Horizontal Cone Through Vertical Angle (3) (Through Max. Cd.)