

IES Report

BoxRail® | 107 | 120° FlyWing™ | 90 CRI | HO

107-BX-XX-4-48-XX-XX-XX-XX-X-X-Z-HO-359-G2-X-XX-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	102	105	107	108
Total Lumens, 4' rail length (1219mm)	4984	5141	5246	5298
Lumens per foot (305mm)	1246	1285	1311	1325
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_G2.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L121911505 (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-G2-AL
[LUMINAIRE] BoxRail LED, 48", 3500K, 90 CRI, zipper board, 120° flying lens,
[MORE] 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	5245
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	107
Total Luminaire Watts	49.06
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.54
Spacing Criterion (90-270)	1.14
Spacing Criterion (Diagonal)	1.52
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.07 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	89227	78994	52165
55	84426	75622	49346
65	63112	62259	47809
75	36018	41557	42074
85	6655	12245	22440

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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	1737.816	1737.816	1737.816	1737.816	1737.816	1737.816	1737.816	1737.816	1737.816	1737.816
5	1749.691	1748.418	1748.266	1746.746	1746.347	1744.599	1743.326	1741.407	1738.937	1737.037
10	1782.827	1781.782	1779.160	1776.690	1772.149	1765.860	1760.293	1752.959	1744.922	1736.068
15	1822.632	1820.808	1817.692	1811.498	1803.043	1792.460	1779.711	1765.461	1748.095	1731.375
20	1846.534	1844.938	1839.998	1832.512	1821.682	1807.356	1789.439	1769.052	1744.523	1718.474
25	1848.605	1847.484	1841.822	1832.911	1819.136	1803.518	1782.105	1756.056	1726.359	1691.722
30	1824.551	1824.304	1819.136	1809.427	1795.329	1776.443	1754.080	1725.333	1689.499	1649.200
35	1775.968	1774.372	1768.406	1758.051	1744.675	1726.036	1702.305	1671.183	1634.456	1588.590
40	1694.420	1692.748	1687.333	1678.099	1664.400	1646.578	1623.626	1592.656	1552.452	1506.168
45	1577.057	1576.088	1571.072	1564.061	1552.205	1536.435	1513.255	1483.558	1444.456	1396.196
50	1417.628	1416.754	1413.809	1408.223	1399.787	1387.285	1367.943	1340.773	1303.115	1257.249
55	1210.414	1210.015	1208.837	1207.868	1204.372	1196.639	1182.066	1160.577	1126.814	1084.197
60	949.696	950.342	953.211	956.308	958.550	958.151	951.767	938.315	914.432	880.422
65	666.691	667.717	671.707	677.445	684.133	689.624	691.847	688.503	677.122	657.685
70	415.682	416.879	420.945	427.158	434.796	443.479	450.091	453.758	452.561	445.873
75	233.016	233.643	236.189	240.578	246.221	252.757	258.970	264.214	267.406	268.850
80	98.420	98.990	100.662	103.531	107.578	112.518	117.857	123.120	128.288	132.829
85	14.497	14.497	14.725	14.972	15.694	16.492	17.841	19.912	22.933	26.676
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>
0	1737.816	1737.816	1737.816	1737.816	1737.816	1737.816	1737.816	1737.816	1737.816
5	1735.593	1733.769	1731.622	1730.653	1729.779	1728.031	1727.005	1726.530	1725.808
10	1727.309	1719.044	1711.159	1704.072	1697.536	1691.722	1688.055	1685.509	1683.913
15	1713.933	1694.040	1676.674	1660.581	1645.457	1632.480	1623.949	1618.458	1615.589
20	1690.525	1658.833	1630.732	1600.864	1575.461	1553.725	1536.682	1526.080	1522.261
25	1653.266	1613.442	1570.673	1530.070	1492.241	1458.877	1433.550	1418.179	1411.263
30	1603.334	1553.231	1498.454	1445.976	1395.569	1352.572	1318.809	1298.327	1290.214
35	1535.314	1476.471	1414.607	1349.057	1289.492	1238.857	1198.710	1174.276	1165.346
40	1447.401	1382.117	1313.299	1242.429	1176.100	1117.808	1075.837	1049.560	1040.326
45	1336.004	1268.706	1197.760	1123.470	1056.571	999.552	956.631	931.076	921.994
50	1197.760	1131.431	1063.107	993.586	933.451	880.498	842.593	818.938	811.148
55	1029.971	970.653	911.791	854.069	805.011	763.040	733.267	713.906	707.465
60	837.976	791.236	747.270	706.819	673.056	644.784	624.967	612.617	607.753
65	631.731	604.409	579.481	557.194	539.201	524.457	514.026	507.110	505.039
70	436.316	425.885	416.879	409.545	403.579	399.912	396.492	394.022	393.072
75	269.477	269.629	269.629	270.199	271.073	272.099	272.593	272.498	272.194
80	136.895	140.562	143.507	145.882	147.953	149.321	150.271	150.898	150.822
85	32.015	37.658	42.370	45.790	47.785	48.659	48.887	49.058	48.887
90	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	653.43	N.A.	12.50
0-30	1419.27	N.A.	27.10
0-40	2374.86	N.A.	45.30
0-60	4294.88	N.A.	81.90
0-80	5193.64	N.A.	99.00
0-90	5245.19	N.A.	100.00
10-90	5079.42	N.A.	96.80
20-40	1721.43	N.A.	32.80
20-50	2736.83	N.A.	52.20
40-70	2535.75	N.A.	48.30
60-80	898.77	N.A.	17.10
70-80	283.03	N.A.	5.40
80-90	51.55	N.A.	1.00
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	5245.19	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	165.77
10-20	487.66
20-30	765.85
30-40	955.59
40-50	1015.4
50-60	904.62
60-70	615.73
70-80	283.03
80-90	51.55
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

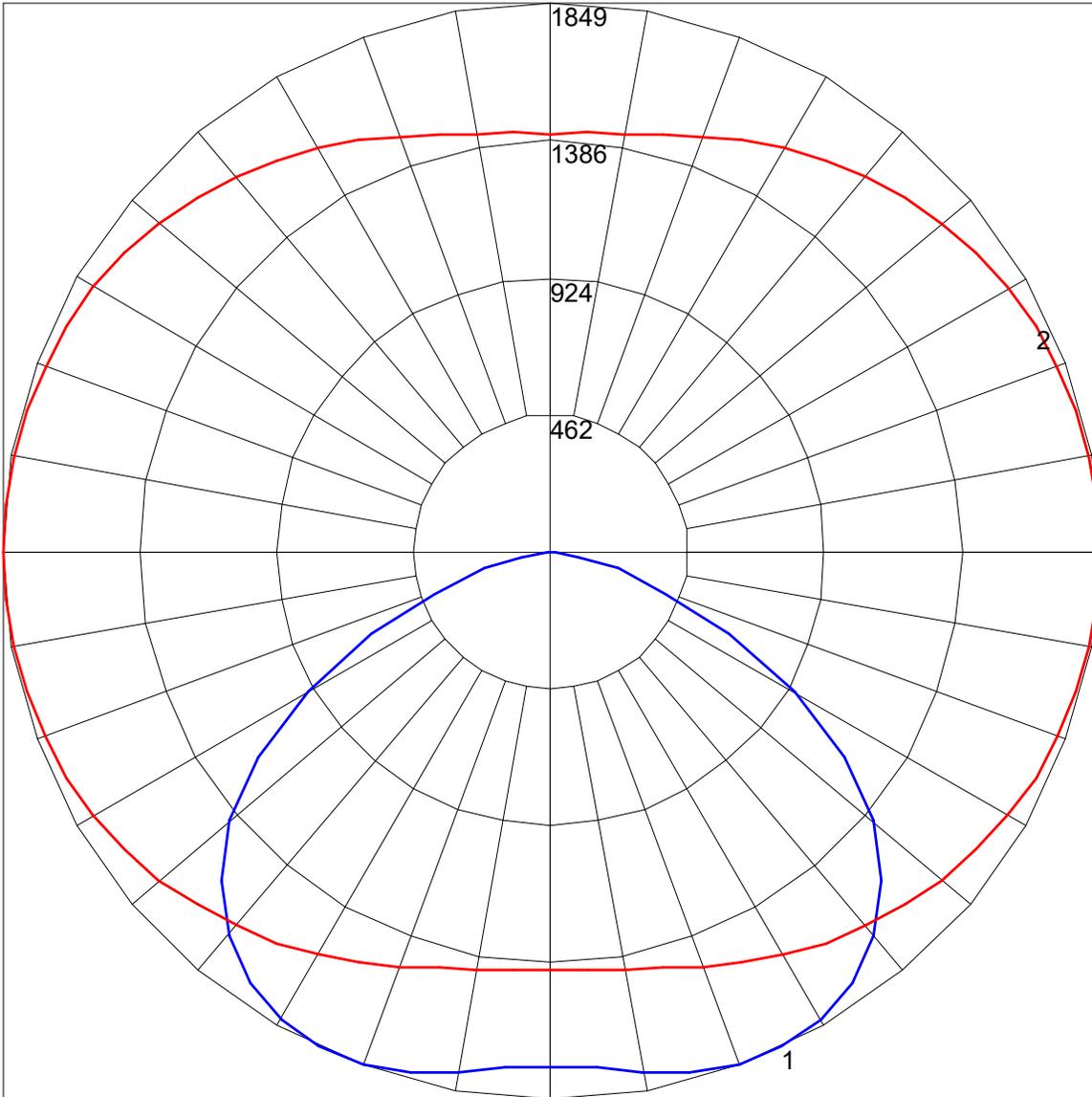
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC RW	80				70				50			30			10			0
	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	102	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	79	97	90	84	78	86	81	77	83	79	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	47	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32	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 = 1848.605 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.)