

**IES Report**

**BoxRail® | 107 | 120° FlyWing™ | 90 CRI | LO**

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

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	78	80	82	83
Total Lumens, 4' rail length (1219mm)	1155	1192	1216	1240
Lumens per foot (305mm)	289	298	304	310
Input Power (W), 4' rail length (1219mm)	15.0	15.0	15.0	15.0
Watts per foot (305mm)	3.8	3.8	3.8	3.8
CRI	96	96	96	96

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\_LO\_359\_G2.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] L071704204 (SOURCE REPORT FOR REFERENCE)  
[TESTLAB] REPORT BASED ON DATA PRODUCED BY NVLAP ACCREDITED LAB  
[ISSUEDATE] 11/1/2017  
[MANUFAC] Vode Lighting  
[LUMCAT] 107-BX-48-Z-LO-359-G2  
[LUMINAIRE] BoxRail LED, 48", 3500K, 90 CRI, zipper board,  
[MORE] 120° flywing lens, low output  
[TEST PROCEDURE] IESNA:LM-79-08

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1216
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	81
Total Luminaire Watts	14.95
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.58
Spacing Criterion (90-270)	1.14
Spacing Criterion (Diagonal)	1.52
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.08 ft
Luminous Width (90-270)	3.85 ft
Luminous Height	0.00 ft

**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	18268	16021	10447
55	17310	15416	9925
65	13260	12798	9621
75	7410	8549	8484
85	1085	2215	4734

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>	394.791	394.791	394.791	394.791	394.791	394.791	394.791	394.791	394.791	394.791
<b>5</b>	397.530	397.463	397.377	397.188	396.913	396.617	396.234	395.857	395.388	394.944
<b>10</b>	406.337	406.230	405.741	405.001	403.966	402.568	401.064	399.304	397.356	395.326
<b>15</b>	417.007	416.690	415.803	414.380	412.330	409.785	406.740	403.221	399.371	395.219
<b>20</b>	424.249	423.892	422.724	420.821	418.088	414.615	410.382	405.363	399.600	393.312
<b>25</b>	426.834	426.385	424.968	422.683	419.444	415.206	409.958	403.879	396.556	388.487
<b>30</b>	423.994	423.489	421.857	419.337	415.716	410.932	405.042	398.014	389.523	379.593
<b>35</b>	414.508	413.977	412.350	409.744	406.042	401.044	394.730	387.070	377.731	366.909
<b>40</b>	397.020	396.556	395.112	392.680	389.166	384.316	378.007	370.087	360.346	348.784
<b>45</b>	369.959	369.597	368.414	366.420	363.457	359.076	353.440	345.841	336.289	324.457
<b>50</b>	332.566	332.331	331.592	330.256	328.119	324.855	320.030	313.211	304.383	292.801
<b>55</b>	284.371	284.310	284.055	283.504	282.402	280.286	276.853	271.391	263.644	253.246
<b>60</b>	225.547	225.695	226.119	226.542	226.669	226.037	224.237	220.529	214.603	206.239
<b>65</b>	160.502	160.757	161.537	162.639	163.741	164.567	164.587	163.190	159.992	154.912
<b>70</b>	100.623	100.919	101.765	103.117	104.728	106.340	107.564	108.013	107.187	105.238
<b>75</b>	54.927	55.182	55.881	56.957	58.380	59.945	61.450	62.653	63.250	63.373
<b>80</b>	21.558	21.706	22.210	23.016	24.118	25.536	27.020	28.499	29.794	30.998
<b>85</b>	2.708	2.754	2.795	2.861	2.963	3.111	3.386	3.835	4.508	5.528
<b>90</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. 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>	394.791	394.791	394.791	394.791	394.791	394.791	394.791	394.791	394.791
<b>5</b>	394.541	394.077	393.633	393.230	392.909	392.659	392.425	392.317	392.277
<b>10</b>	393.271	391.236	389.354	387.493	385.988	384.632	383.724	383.127	382.872
<b>15</b>	390.813	386.391	382.072	377.920	374.360	371.336	369.092	367.695	367.205
<b>20</b>	386.412	379.251	372.096	365.068	358.928	353.614	349.569	347.152	346.285
<b>25</b>	379.277	369.556	359.479	349.375	340.547	332.607	326.655	322.886	321.637
<b>30</b>	368.521	356.449	343.827	330.873	319.245	308.932	301.038	296.101	294.448
<b>35</b>	353.950	339.976	324.921	309.402	295.530	283.249	274.038	268.234	266.286
<b>40</b>	334.851	319.224	302.583	285.345	269.994	256.698	246.702	240.521	238.425
<b>45</b>	309.886	293.689	276.303	258.667	243.250	229.658	219.703	213.629	211.573
<b>50</b>	278.526	262.670	246.111	229.403	215.113	203.041	193.703	188.282	186.374
<b>55</b>	240.455	226.205	211.660	197.640	185.977	176.215	168.953	164.506	163.042
<b>60</b>	195.906	184.768	174.032	164.082	155.907	149.175	144.157	141.168	140.133
<b>65</b>	148.303	141.443	135.135	129.504	125.057	121.349	118.641	116.989	116.458
<b>70</b>	102.505	99.838	97.400	95.263	93.738	92.534	91.642	90.964	90.709
<b>75</b>	63.311	63.143	63.036	62.975	63.016	63.036	63.077	63.016	62.888
<b>80</b>	32.018	32.818	33.497	33.986	34.389	34.705	34.940	35.088	35.108
<b>85</b>	6.987	8.553	9.848	10.797	11.286	11.562	11.710	11.796	11.817
<b>90</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_107\_BX\_LO\_359\_G2.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	149.00	N.A.	12.30
0-30	324.79	N.A.	26.70
0-40	545.65	N.A.	44.90
0-60	992.85	N.A.	81.60
0-80	1204.35	N.A.	99.00
0-90	1216.08	N.A.	100.00
10-90	1178.38	N.A.	96.90
20-40	396.65	N.A.	32.60
20-50	632.67	N.A.	52.00
40-70	592.24	N.A.	48.70
60-80	211.50	N.A.	17.40
70-80	66.46	N.A.	5.50
80-90	11.72	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	1216.08	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	37.70
10-20	111.30
20-30	175.79
30-40	220.86
40-50	236.02
50-60	211.18
60-70	145.04
70-80	66.46
80-90	11.72
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

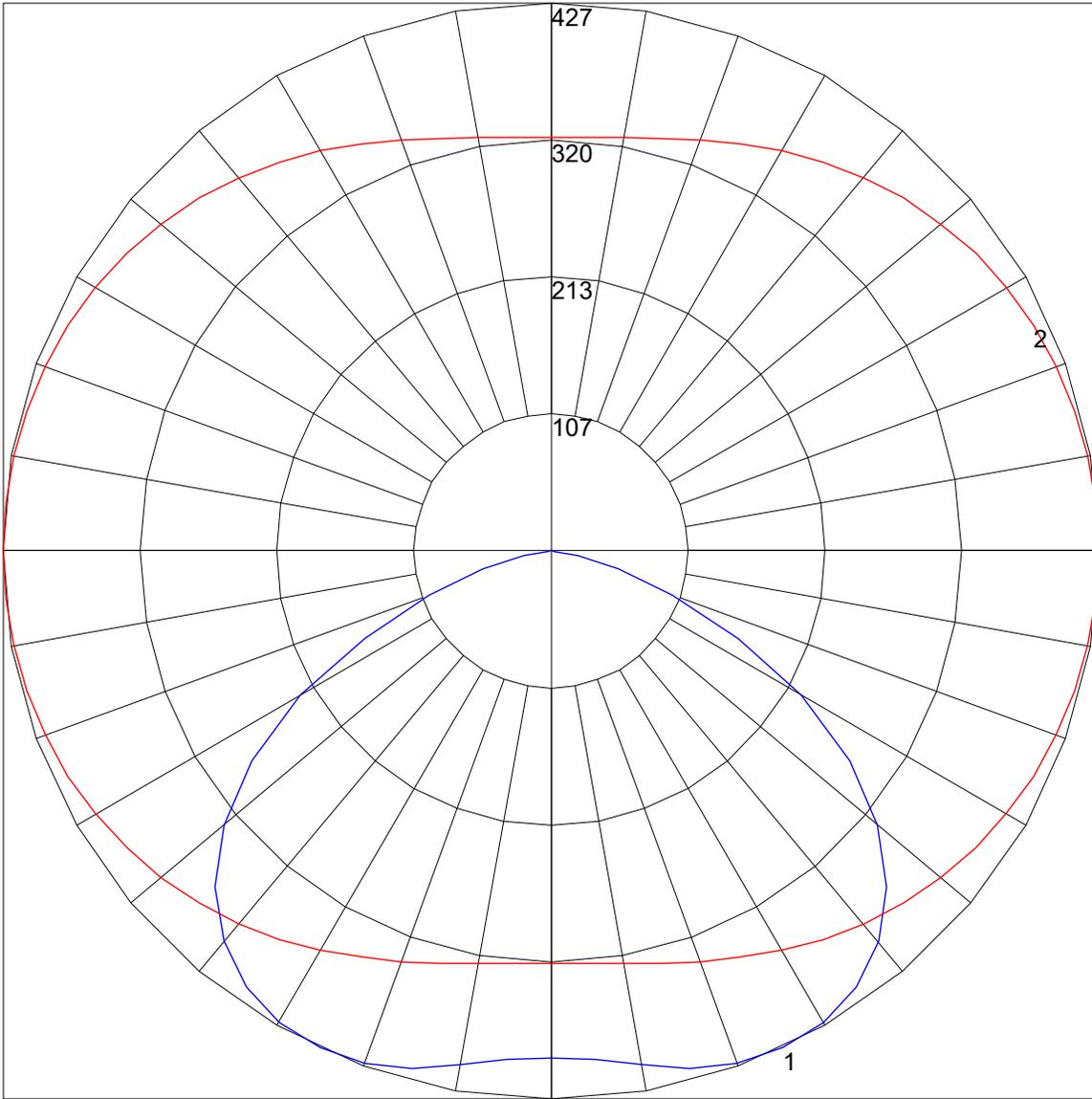
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_107\_BX\_LO\_359\_G2.IES**

**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	102	99	95	98	95	92	94	92	90	91	89	87	85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60
4	83	71	62	56	81	70	62	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44
6	70	57	48	42	68	56	47	41	54	47	41	52	46	41	51	45	40	38
7	65	51	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36	34
8	60	47	38	32	59	46	38	32	45	37	32	44	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	29	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

POLAR GRAPH



Maximum Candela = 426.834 Located At Horizontal Angle = 0, Vertical Angle = 25  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (25) (Through Max. Cd.)