

## IES Report

# BoxRail® | 107 | 120° FlyWing™ | 80 CRI | LO

107-BX-XX-4-48-XX-XX-XX-XX-X-X-Z-LO-35-G2-X-XX-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	111	114	116	116
Total Lumens, 4' rail length (1219mm)	1521	1569	1601	1601
Lumens per foot (305mm)	380	392	400	400
Input Power (W), 4' rail length (1219mm)	13.8	13.8	13.8	13.8
Watts per foot (305mm)	3.5	3.5	3.5	3.5
CRI	82	82	82	82

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\_35\_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-LO-35-G2-AL  
[LUMINAIRE] BoxRail LED, 48", 3500K, 80 CRI, zipper board, 120° flywing lens,  
[MORE] low 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	1601
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	116
Total Luminaire Watts	13.82
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	27238	24114	15924
55	25772	23085	15063
65	19266	19005	14594
75	10995	12686	12844
85	2031	3738	6850

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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>	530.491	530.491	530.491	530.491	530.491	530.491	530.491	530.491	530.491	530.491
<b>5</b>	534.116	533.728	533.681	533.217	533.095	532.562	532.173	531.587	530.833	530.253
<b>10</b>	544.231	543.912	543.112	542.358	540.972	539.052	537.353	535.114	532.660	529.958
<b>15</b>	556.382	555.826	554.874	552.984	550.403	547.172	543.280	538.930	533.629	528.525
<b>20</b>	563.679	563.192	561.684	559.398	556.092	551.719	546.250	540.026	532.539	524.587
<b>25</b>	564.311	563.969	562.240	559.520	555.315	550.548	544.011	536.059	526.994	516.420
<b>30</b>	556.968	556.893	555.315	552.351	548.048	542.283	535.456	526.681	515.742	503.440
<b>35</b>	542.138	541.650	539.829	536.668	532.585	526.895	519.651	510.151	498.939	484.938
<b>40</b>	517.244	516.734	515.081	512.262	508.080	502.640	495.633	486.179	473.906	459.778
<b>45</b>	481.417	481.122	479.590	477.450	473.831	469.017	461.941	452.876	440.939	426.207
<b>50</b>	432.750	432.483	431.584	429.879	427.303	423.487	417.583	409.289	397.793	383.792
<b>55</b>	369.495	369.373	369.013	368.718	367.650	365.290	360.841	354.281	343.975	330.965
<b>60</b>	289.907	290.104	290.980	291.926	292.610	292.488	290.539	286.433	279.142	268.760
<b>65</b>	203.516	203.829	205.047	206.799	208.841	210.517	211.195	210.175	206.700	200.767
<b>70</b>	126.892	127.258	128.499	130.396	132.727	135.378	137.396	138.516	138.150	136.109
<b>75</b>	71.131	71.323	72.100	73.440	75.162	77.157	79.054	80.655	81.629	82.070
<b>80</b>	30.044	30.218	30.728	31.604	32.840	34.348	35.977	37.584	39.162	40.548
<b>85</b>	4.425	4.425	4.495	4.570	4.791	5.034	5.446	6.078	7.001	8.143
<b>90</b>	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>
<b>0</b>	530.491	530.491	530.491	530.491	530.491	530.491	530.491	530.491	530.491
<b>5</b>	529.813	529.256	528.600	528.305	528.038	527.504	527.191	527.046	526.826
<b>10</b>	527.284	524.761	522.354	520.190	518.195	516.420	515.301	514.524	514.037
<b>15</b>	523.201	517.128	511.827	506.914	502.297	498.336	495.732	494.056	493.180
<b>20</b>	516.055	506.381	497.802	488.685	480.930	474.295	469.092	465.856	464.690
<b>25</b>	504.681	492.524	479.469	467.074	455.526	445.341	437.610	432.918	430.807
<b>30</b>	489.439	474.144	457.423	441.403	426.016	412.890	402.584	396.331	393.855
<b>35</b>	468.675	450.712	431.827	411.817	393.634	378.177	365.922	358.463	355.737
<b>40</b>	441.838	421.909	400.902	379.268	359.020	341.226	328.413	320.392	317.573
<b>45</b>	407.833	387.289	365.632	342.954	322.532	305.126	292.024	284.223	281.451
<b>50</b>	365.632	345.384	324.527	303.305	284.948	268.784	257.213	249.992	247.614
<b>55</b>	314.412	296.305	278.336	260.716	245.740	232.928	223.839	217.929	215.963
<b>60</b>	255.803	241.535	228.114	215.766	205.459	196.829	190.779	187.009	185.525
<b>65</b>	192.844	184.504	176.894	170.091	164.598	160.097	156.913	154.802	154.170
<b>70</b>	133.191	130.007	127.258	125.019	123.198	122.078	121.034	120.280	119.990
<b>75</b>	82.261	82.308	82.308	82.482	82.749	83.062	83.213	83.184	83.091
<b>80</b>	41.789	42.908	43.807	44.532	45.165	45.582	45.872	46.064	46.040
<b>85</b>	9.773	11.496	12.934	13.978	14.587	14.854	14.923	14.976	14.923
<b>90</b>	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	199.47	N.A.	12.50
0-30	433.25	N.A.	27.10
0-40	724.96	N.A.	45.30
0-60	1311.07	N.A.	81.90
0-80	1585.43	N.A.	99.00
0-90	1601.16	N.A.	100.00
10-90	1550.56	N.A.	96.80
20-40	525.49	N.A.	32.80
20-50	835.45	N.A.	52.20
40-70	774.07	N.A.	48.30
60-80	274.36	N.A.	17.10
70-80	86.40	N.A.	5.40
80-90	15.74	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	1601.16	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	50.60
10-20	148.86
20-30	233.78
30-40	291.71
40-50	309.96
50-60	276.15
60-70	187.96
70-80	86.40
80-90	15.74
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

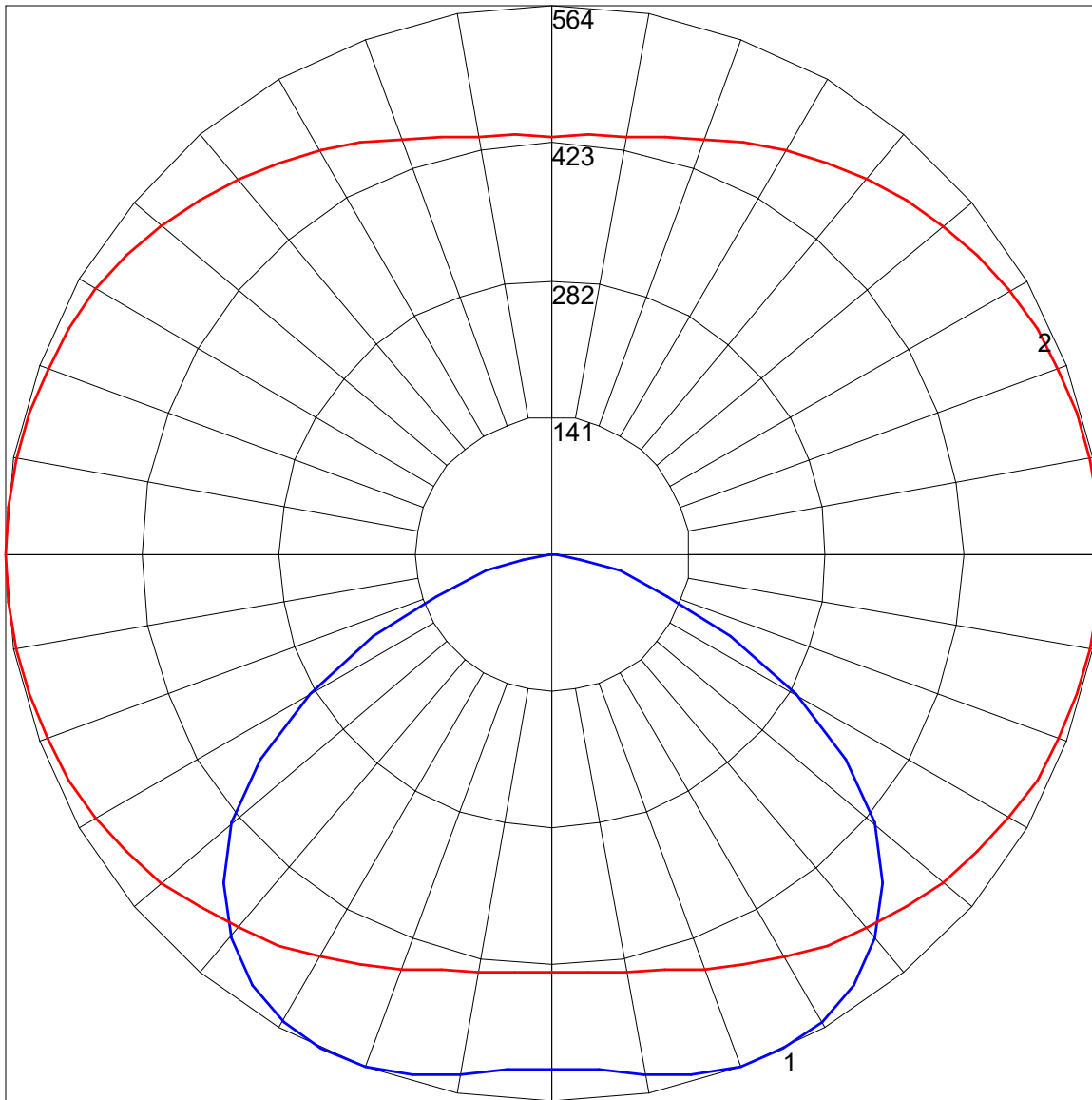
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	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 = 564.311 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.)