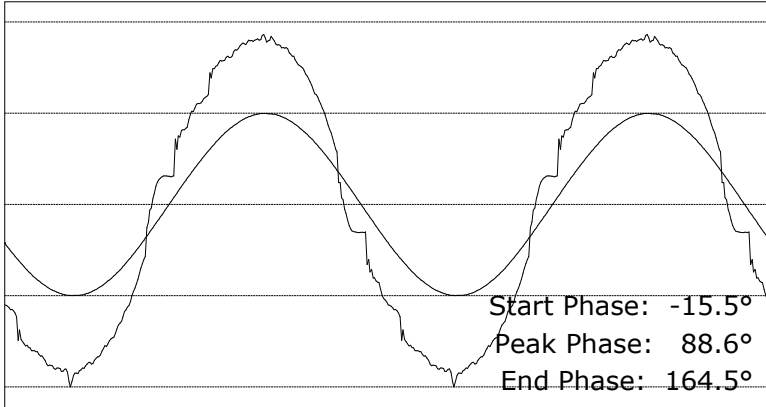
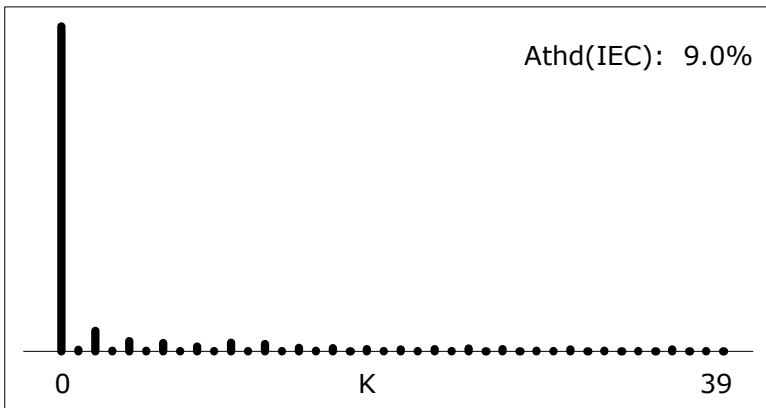
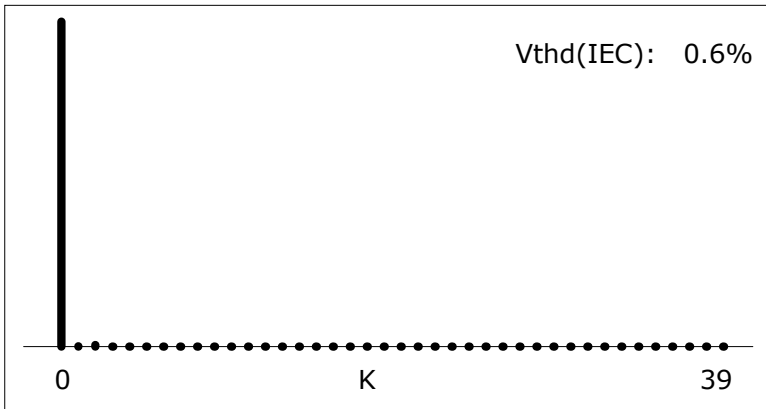


Input Characteristics Test Report [Narrow Band]

Voltage 233.21(V)      Current 0.0634(A)      Power 14.55(W)      Power Factor 0.9843      Frequency 50.00(Hz)



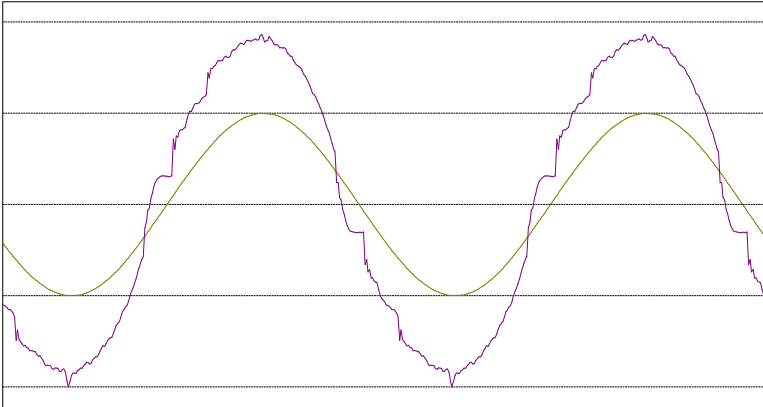
Spectrum(k)	Voltage	Current
0	0.0%	0.4%
1	100.0%	100.0%
2	0.2%	0.5%
3	0.5%	6.4%
4	0.1%	0.2%
5	0.0%	3.2%
6	0.0%	0.2%
7	0.0%	2.6%
8	0.0%	0.2%
9	0.0%	1.5%
10	0.0%	0.1%
11	0.0%	2.7%
12	0.0%	0.2%
13	0.0%	2.4%
14	0.0%	0.1%
15	0.1%	1.2%
16	0.0%	0.2%
17	0.0%	1.0%
18	0.0%	0.1%
19	0.0%	0.8%
20	0.0%	0.2%
21	0.0%	0.7%
22	0.0%	0.1%
23	0.0%	0.7%
24	0.0%	0.1%
25	0.0%	0.9%
26	0.0%	0.1%
27	0.0%	0.7%
28	0.0%	0.1%
29	0.0%	0.3%
30	0.0%	0.1%
31	0.0%	0.6%
32	0.0%	0.0%
33	0.0%	0.3%
34	0.0%	0.1%
35	0.0%	0.2%
36	0.0%	0.1%
37	0.0%	0.6%
38	0.0%	0.1%
39	0.0%	0.1%



Type:LED 0111.W.A311.6.60059.350mA      Number:1  
 Manufacturer: Brasled  
 Temperature:25iãC      Humidity:60%  
 Test Instrument: Lisun WT2080 LED Power Driver Tester  
 Operator:      Inspector:  
 Test Time:2016-10-28

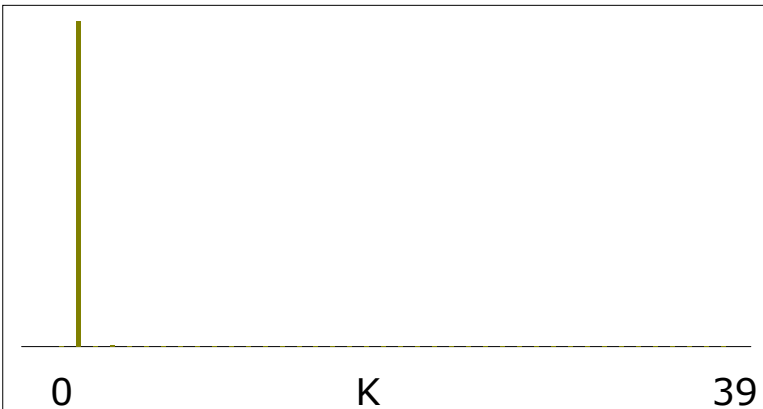
### Input Characteristics Test Report [Narrow Band]

Voltage	Current	Power	Power Factor	Frequency
233.21(V)	0.0634(A)	14.55(W)	0.9843	50.00(Hz)

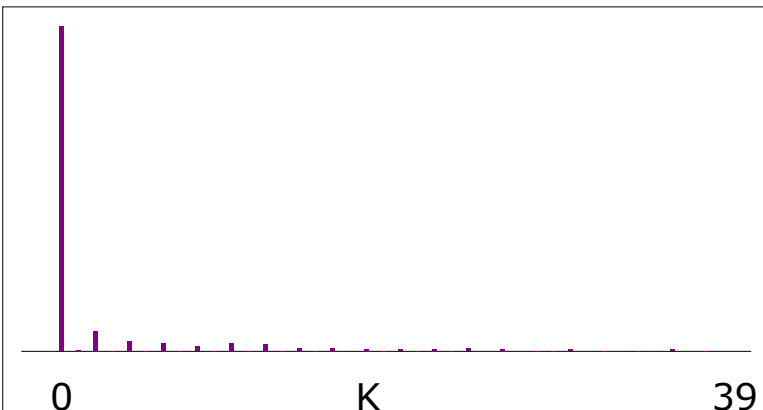


**Voltage**  
Sensitivity: 331.00 V/Div  
Peak: 331.00 V

**Current**  
Sensitivity: 0.0470 A  
Peak: 0.0941 A  
Start Phase: -15.5°  
Peak Phase: 88.6°  
End Phase: 164.5°



**Voltage Spectrum**  
THD(IEC): 0.58%  
H3: 0.52%  
H5: 0.03%  
H7: 0.04%  
H9: 0.01%



**Current Spectrum**  
THD(IEC): 9.0%  
H3: 6.38%  
H5: 3.16%  
H7: 2.62%  
H9: 1.49%

Type:LED 0111.W.A311.6.60059.350mA	Number:1
Manufacturer: Brasled	
Temperature:25iãC	Humidity:60%
Test Instrument: Lisun WT2080 LED Power Driver Tester	
Operator:	Inspector:
Test Time:2016-10-28	

## Input Characteristics Test Report [Narrow Band] (Cont.)

Voltage: 233.21(V)

VCF: 1.419

Vthd(IEC): 0.58%

## Voltage Spectrum

Spectrum(k)	Rel.	Abs.(V)
0	0.03%	0.06
1	100.00%	233.21
2	0.19%	0.45
3	0.52%	1.22
4	0.08%	0.18
5	0.03%	0.08
6	0.01%	0.02
7	0.04%	0.08
8	0.01%	0.02
9	0.01%	0.02
10	0.01%	0.02
11	0.04%	0.09
12	0.01%	0.02
13	0.04%	0.10
14	0.01%	0.03
15	0.06%	0.13
16	0.01%	0.02
17	0.02%	0.05
18	0.00%	0.01
19	0.01%	0.02
20	0.01%	0.01
21	0.04%	0.10
22	0.00%	0.01
23	0.05%	0.11
24	0.01%	0.02
25	0.05%	0.11
26	0.00%	0.01
27	0.03%	0.07
28	0.01%	0.02
29	0.02%	0.06
30	0.00%	0.00
31	0.01%	0.03
32	0.00%	0.01
33	0.01%	0.02
34	0.00%	0.00
35	0.02%	0.04
36	0.00%	0.01
37	0.01%	0.02
38	0.00%	0.01
39	0.01%	0.03

Current: 0.0634(A)

ACF: 1.485

Athd(IEC): 8.99%

## Current Spectrum

Spectrum(k)	Rel.	Abs.(mA/W)
0	0.37%	0.02
1	100.00%	4.34
2	0.51%	0.02
3	6.38%	0.28
4	0.20%	0.01
5	3.16%	0.14
6	0.23%	0.01
7	2.62%	0.11
8	0.17%	0.01
9	1.49%	0.06
10	0.14%	0.01
11	2.67%	0.12
12	0.19%	0.01
13	2.36%	0.10
14	0.15%	0.01
15	1.15%	0.05
16	0.24%	0.01
17	1.00%	0.04
18	0.09%	0.00
19	0.75%	0.03
20	0.18%	0.01
21	0.67%	0.03
22	0.12%	0.01
23	0.70%	0.03
24	0.14%	0.01
25	0.90%	0.04
26	0.09%	0.00
27	0.71%	0.03
28	0.09%	0.00
29	0.27%	0.01
30	0.13%	0.01
31	0.60%	0.03
32	0.05%	0.00
33	0.29%	0.01
34	0.07%	0.00
35	0.16%	0.01
36	0.07%	0.00
37	0.62%	0.03
38	0.07%	0.00
39	0.12%	0.01

Type:LED 0111.W.A311.6.60059.350mA

Number:1

Manufacturer: Brasled

Temperature:25iãC

Humidity:60%

Test Instrument: Lisun WT2080 LED Power Driver Tester

Operator:

Inspector:

Test Time:2016-10-28

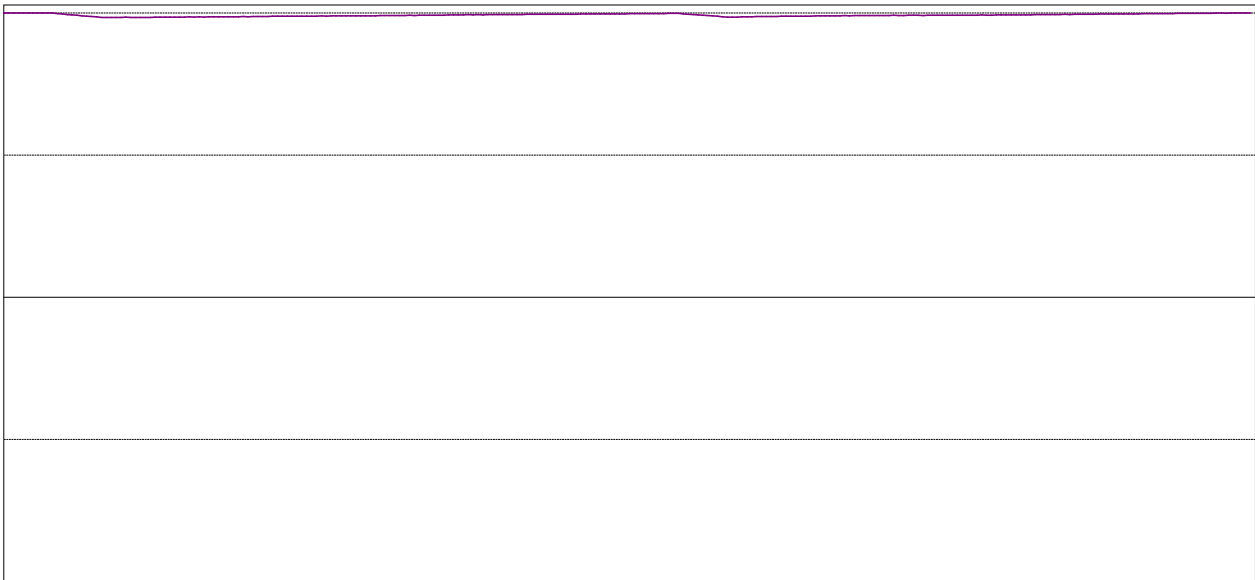
### Output

Lamp Voltage(rms):35.29V      Lamp Current(rms):0.3502A  
Power:12.36W      Ripple Current:0.000A      Energy Efficiency:0.849

#### Lamp Voltage Wave



#### Lamp Current Wave

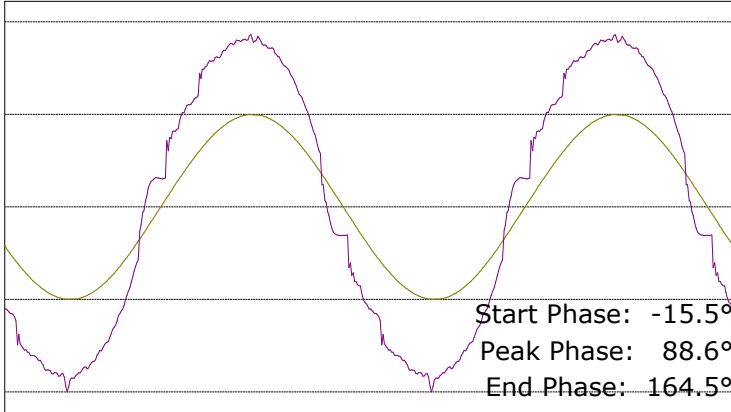


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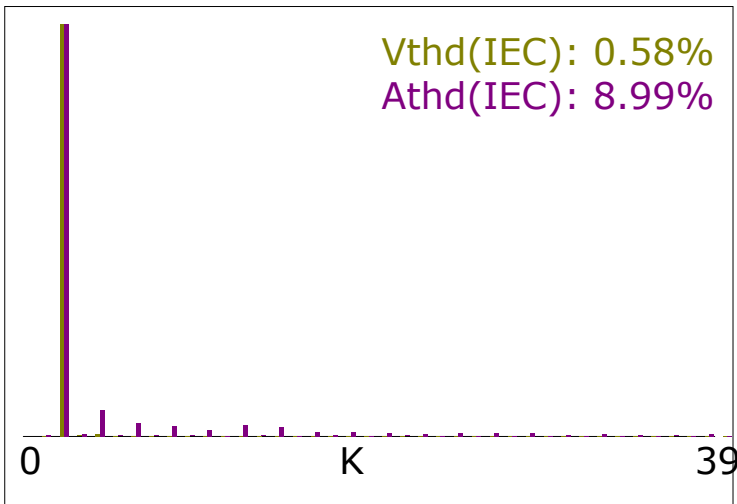
Type:LED 0111.W.A311.6.60059.350mA      Number:1  
Manufacturer: Brasled  
Temperature:25iãC      Humidity:60%  
Test Instrument: Lisun WT2080 LED Power Driver Tester  
Operator:      Inspector:  
Test Time:2016-10-28

# Input & Output Characteristics Test Report

## Input Characteristics Test Report [Narrow Band]



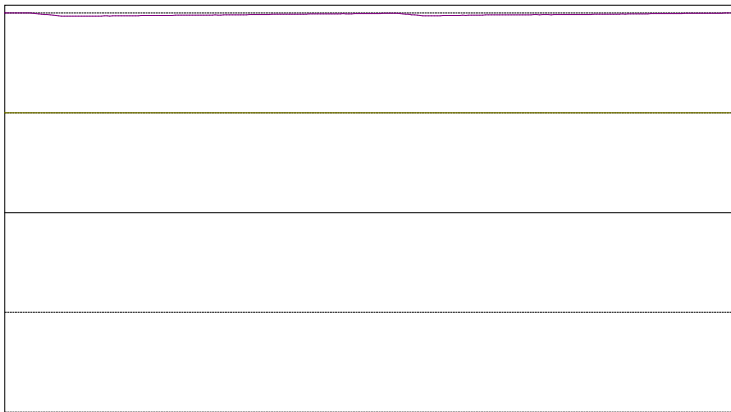
Voltage: 233.208(V)  
 VCF: 1.419  
 Vthd(IEC): 0.58%  
 Current: 0.063(A)  
 ACF: 1.485  
 Athd(IEC): 8.99%  
 Power: 14.5(W)  
 Power Factor: 0.9843  
 Frequency: 50.00(Hz)



Voltage Spectrum  
 H3: 0.52%  
 H5: 0.03%  
 H7: 0.04%  
 H9: 0.01%

Current Spectrum  
 H3: 6.38%  
 H5: 3.16%  
 H7: 2.62%  
 H9: 1.49%

## Output characteristics



Lamp Voltage(rms):35.29V  
 Lamp Current(rms):0.3502A  
 Power:12.36W  
 Ripple Current:0.000A  
 Energy Efficiency:0.849