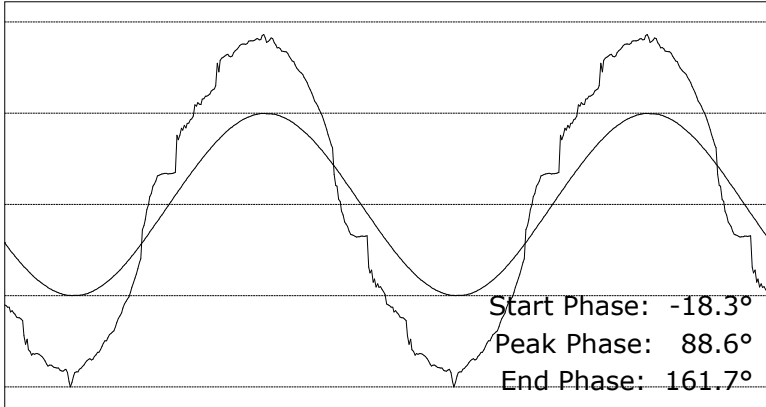
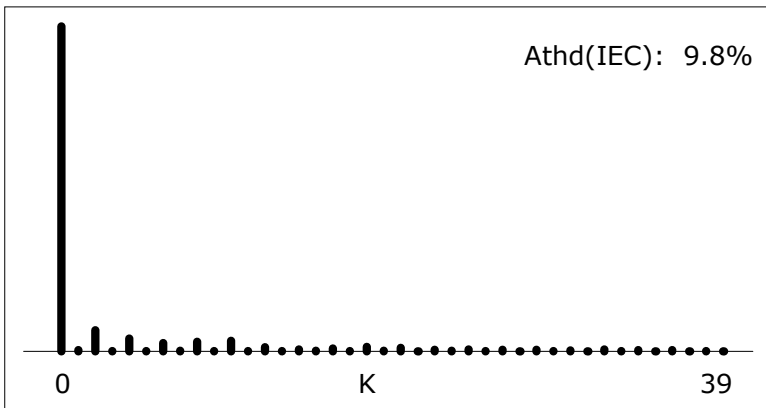
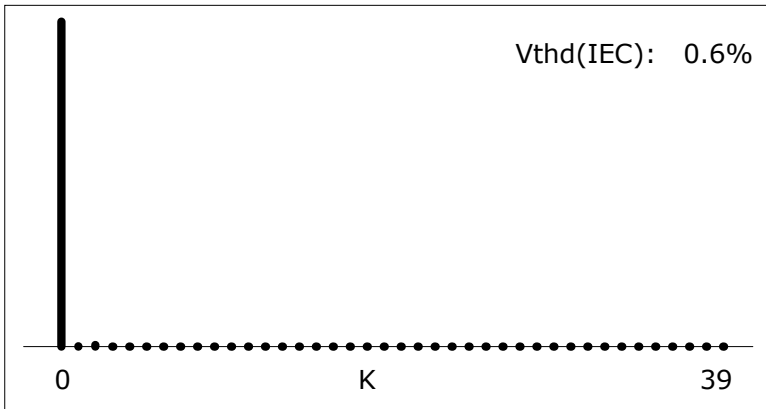


Input Characteristics Test Report [Narrow Band]

Voltage 229.36(V)      Current 0.0570(A)      Power 12.80(W)      Power Factor 0.9783      Frequency 50.00(Hz)



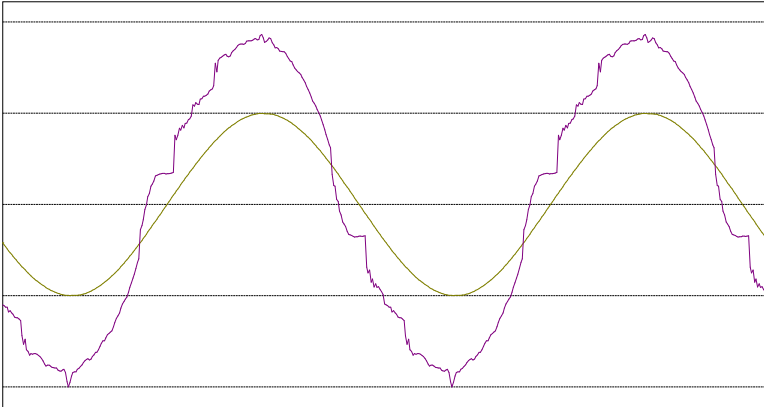
Spectrum(k)	Voltage	Current
0	0.0%	0.6%
1	100.0%	100.0%
2	0.2%	0.5%
3	0.5%	6.5%
4	0.1%	0.2%
5	0.0%	4.0%
6	0.0%	0.1%
7	0.0%	2.7%
8	0.0%	0.3%
9	0.0%	3.0%
10	0.0%	0.1%
11	0.0%	3.3%
12	0.0%	0.2%
13	0.0%	1.3%
14	0.0%	0.2%
15	0.1%	0.7%
16	0.0%	0.3%
17	0.0%	1.0%
18	0.0%	0.1%
19	0.0%	1.5%
20	0.0%	0.2%
21	0.0%	1.1%
22	0.0%	0.0%
23	0.1%	0.5%
24	0.0%	0.2%
25	0.1%	0.6%
26	0.0%	0.1%
27	0.0%	0.6%
28	0.0%	0.1%
29	0.0%	0.6%
30	0.0%	0.1%
31	0.0%	0.4%
32	0.0%	0.1%
33	0.0%	0.6%
34	0.0%	0.1%
35	0.0%	0.4%
36	0.0%	0.1%
37	0.0%	0.5%
38	0.0%	0.1%
39	0.0%	0.1%



Type:LED 0117.G.A231.6.60049.300mA      Number:1  
 Manufacturer: Brasled  
 Temperature:25iãC      Humidity:60%  
 Test Instrument: Lisun WT2080 LED Power Driver Tester  
 Operator:      Inspector:  
 Test Time:2016-10-12

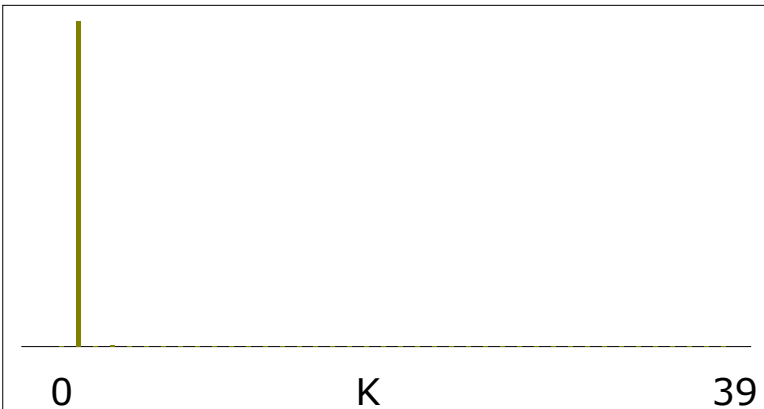
### Input Characteristics Test Report [Narrow Band]

Voltage	Current	Power	Power Factor	Frequency
229.36(V)	0.0570(A)	12.80(W)	0.9783	50.00(Hz)

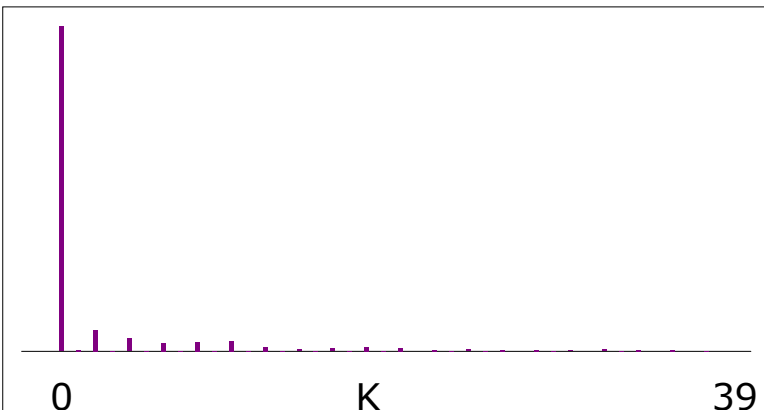


**Voltage**  
Sensitivity: 325.55 V/Div  
Peak: 325.55 V

**Current**  
Sensitivity: 0.0432 A  
Peak: 0.0865 A  
Start Phase: -18.3°  
Peak Phase: 88.6°  
End Phase: 161.7°



**Voltage Spectrum**  
THD(IEC): 0.56%  
H3: 0.50%  
H5: 0.01%  
H7: 0.03%  
H9: 0.01%



**Current Spectrum**  
THD(IEC): 9.8%  
H3: 6.55%  
H5: 3.96%  
H7: 2.65%  
H9: 2.98%

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

Voltage: 229.36(V)  
 VCF: 1.419  
 Vthd(IEC): 0.56%

Current: 0.0570(A)  
 ACF: 1.516  
 Athd(IEC): 9.81%

Voltage Spectrum

Spectrum(k)	Rel.	Abs.(V)
0	0.02%	0.05
1	100.00%	229.36
2	0.19%	0.44
3	0.50%	1.16
4	0.08%	0.18
5	0.01%	0.02
6	0.01%	0.03
7	0.03%	0.08
8	0.01%	0.01
9	0.01%	0.03
10	0.01%	0.02
11	0.04%	0.08
12	0.01%	0.02
13	0.03%	0.06
14	0.01%	0.03
15	0.06%	0.15
16	0.01%	0.02
17	0.02%	0.05
18	0.00%	0.01
19	0.03%	0.07
20	0.01%	0.01
21	0.03%	0.07
22	0.01%	0.01
23	0.05%	0.12
24	0.02%	0.04
25	0.06%	0.15
26	0.00%	0.01
27	0.03%	0.07
28	0.01%	0.02
29	0.01%	0.01
30	0.00%	0.00
31	0.03%	0.06
32	0.00%	0.01
33	0.00%	0.01
34	0.00%	0.01
35	0.02%	0.04
36	0.00%	0.01
37	0.01%	0.02
38	0.00%	0.00
39	0.01%	0.02

Current Spectrum

Spectrum(k)	Rel.	Abs.(mA/W)
0	0.58%	0.03
1	100.00%	4.43
2	0.47%	0.02
3	6.55%	0.29
4	0.19%	0.01
5	3.96%	0.18
6	0.15%	0.01
7	2.65%	0.12
8	0.28%	0.01
9	2.98%	0.13
10	0.13%	0.01
11	3.26%	0.14
12	0.18%	0.01
13	1.28%	0.06
14	0.17%	0.01
15	0.68%	0.03
16	0.28%	0.01
17	0.96%	0.04
18	0.13%	0.01
19	1.46%	0.06
20	0.21%	0.01
21	1.14%	0.05
22	0.05%	0.00
23	0.52%	0.02
24	0.23%	0.01
25	0.61%	0.03
26	0.13%	0.01
27	0.58%	0.03
28	0.09%	0.00
29	0.59%	0.03
30	0.11%	0.00
31	0.36%	0.02
32	0.06%	0.00
33	0.62%	0.03
34	0.13%	0.01
35	0.40%	0.02
36	0.05%	0.00
37	0.47%	0.02
38	0.07%	0.00
39	0.12%	0.01

Type:LED 0117.G.A231.6.60049.300mA      Number:1  
 Manufacturer: Brasled  
 Temperature:25iãC      Humidity:60%  
 Test Instrument: Lisun WT2080 LED Power Driver Tester  
 Operator:      Inspector:  
 Test Time:2016-10-12

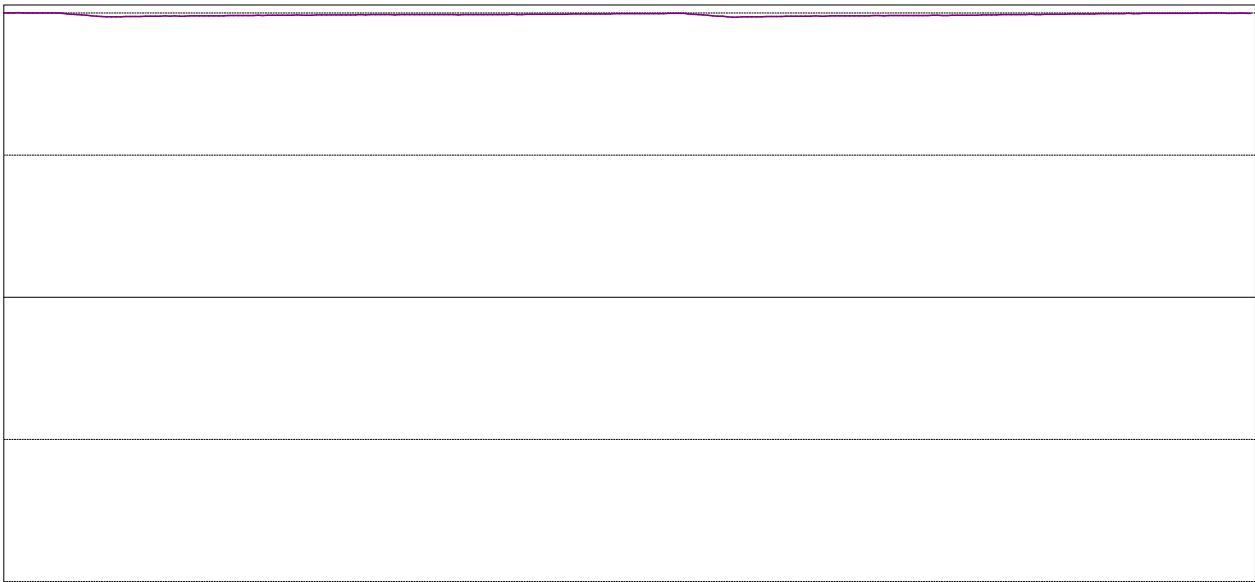
### Output

Lamp Voltage(rms):36.43V      Lamp Current(rms):0.2993A  
Power:10.90W      Ripple Current:0.000A      Energy Efficiency:0.852

#### Lamp Voltage Wave



#### Lamp Current Wave

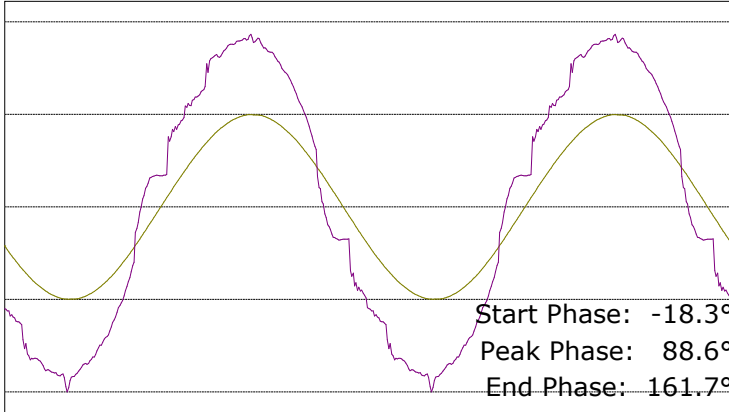


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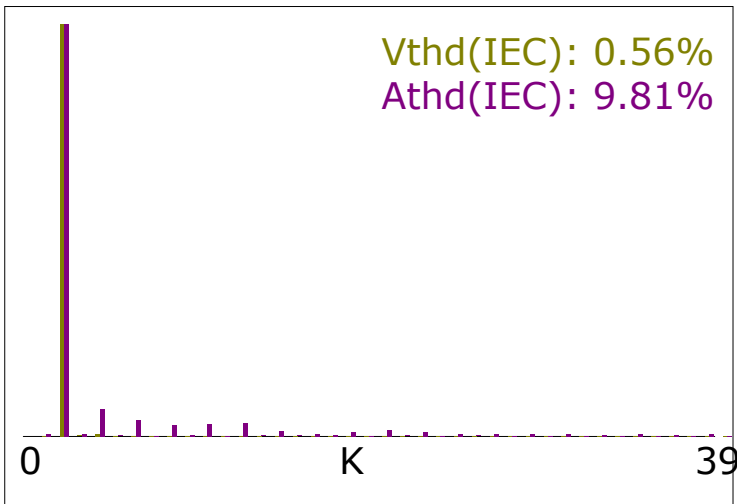
Type:LED 0117.G.A231.6.60049.300mA      Number:1  
Manufacturer: Brasled  
Temperature:25iãC      Humidity:60%  
Test Instrument: Lisun WT2080 LED Power Driver Tester  
Operator:      Inspector:  
Test Time:2016-10-12

# Input & Output Characteristics Test Report

## Input Characteristics Test Report [Narrow Band]



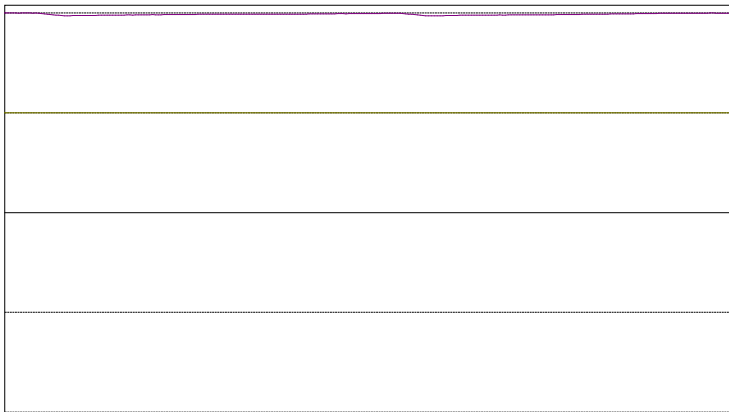
Voltage: 229.359(V)  
VCF: 1.419  
Vthd(IEC): 0.56%  
Current: 0.057(A)  
ACF: 1.516  
Athd(IEC): 9.81%  
Power: 12.8(W)  
Power Factor: 0.9783  
Frequency: 50.00(Hz)



Voltage Spectrum  
H3: 0.50%  
H5: 0.01%  
H7: 0.03%  
H9: 0.01%

Current Spectrum  
H3: 6.55%  
H5: 3.96%  
H7: 2.65%  
H9: 2.98%

## Output characteristics



Lamp Voltage(rms):36.43V  
Lamp Current(rms):0.2993A  
Power:10.90W  
Ripple Current:0.000A  
Energy Efficiency:0.852