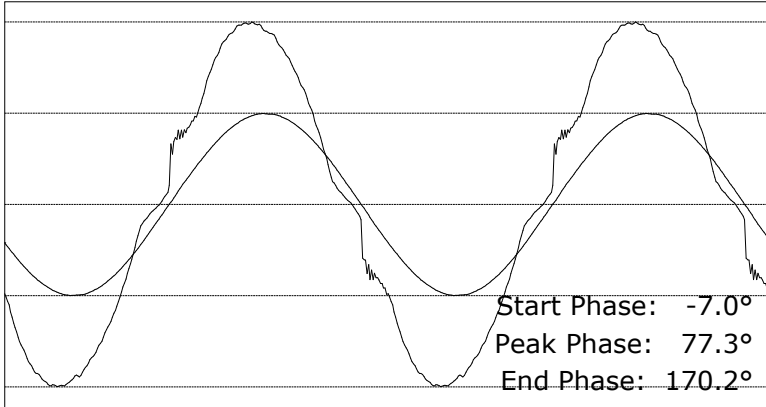
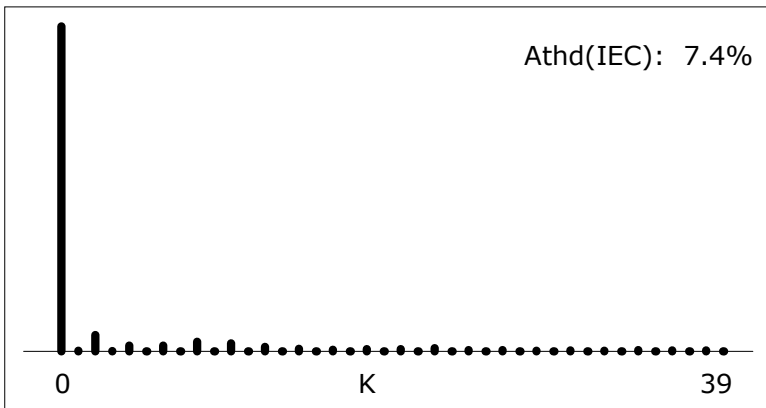
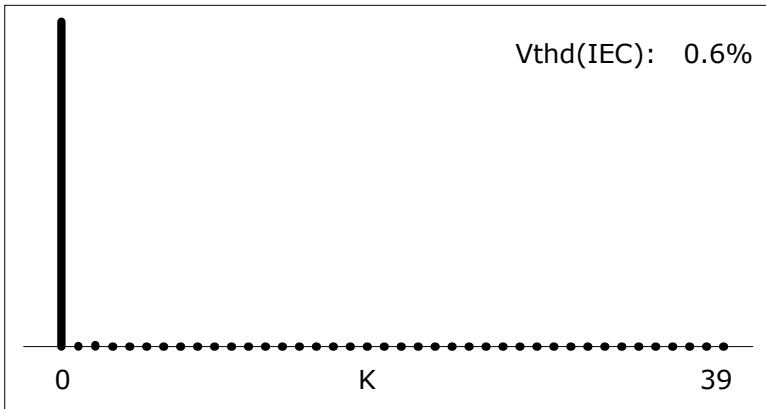


Input Characteristics Test Report [Narrow Band]

Voltage 229.96(V)      Current 0.1104(A)      Power 24.71(W)      Power Factor 0.9733      Frequency 50.00(Hz)



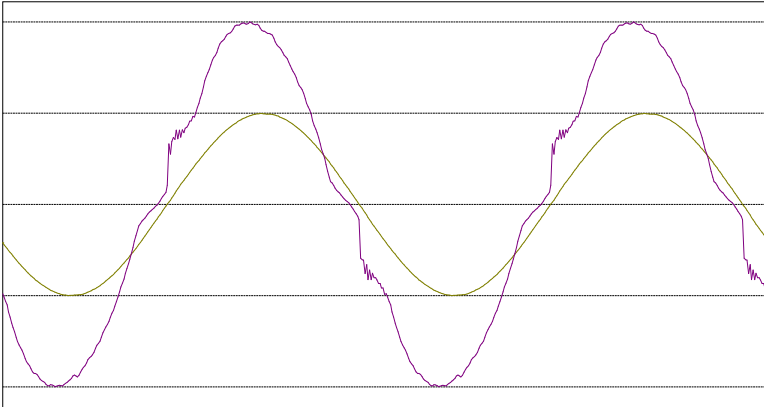
Spectrum(k)	Voltage	Current
0	0.0%	0.2%
1	100.0%	100.0%
2	0.2%	0.3%
3	0.5%	5.1%
4	0.1%	0.1%
5	0.0%	1.8%
6	0.0%	0.0%
7	0.0%	1.8%
8	0.0%	0.1%
9	0.0%	3.0%
10	0.0%	0.1%
11	0.1%	2.6%
12	0.0%	0.1%
13	0.1%	1.5%
14	0.0%	0.0%
15	0.1%	0.9%
16	0.0%	0.0%
17	0.0%	0.6%
18	0.0%	0.0%
19	0.0%	0.7%
20	0.0%	0.0%
21	0.1%	0.7%
22	0.0%	0.0%
23	0.1%	1.1%
24	0.0%	0.0%
25	0.1%	0.4%
26	0.0%	0.0%
27	0.0%	0.4%
28	0.0%	0.0%
29	0.0%	0.2%
30	0.0%	0.0%
31	0.0%	0.4%
32	0.0%	0.0%
33	0.0%	0.3%
34	0.0%	0.0%
35	0.0%	0.4%
36	0.0%	0.0%
37	0.0%	0.3%
38	0.0%	0.0%
39	0.0%	0.3%



Type:LED 0803.W.U641.6.60086.600mA      Number:1  
 Manufacturer: Brasled  
 Temperature:25iãC      Humidity:60%  
 Test Instrument: Lisun WT2080 LED Power Driver Tester  
 Operator:      Inspector:  
 Test Time:2016-11-30

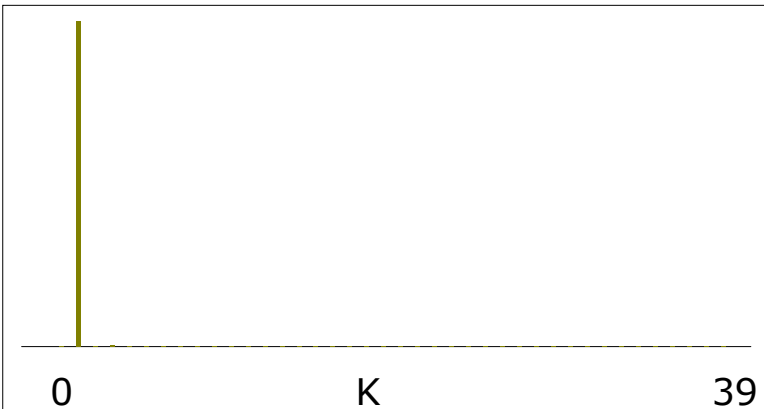
### Input Characteristics Test Report [Narrow Band]

Voltage	Current	Power	Power Factor	Frequency
229.96(V)	0.1104(A)	24.71(W)	0.9733	50.00(Hz)

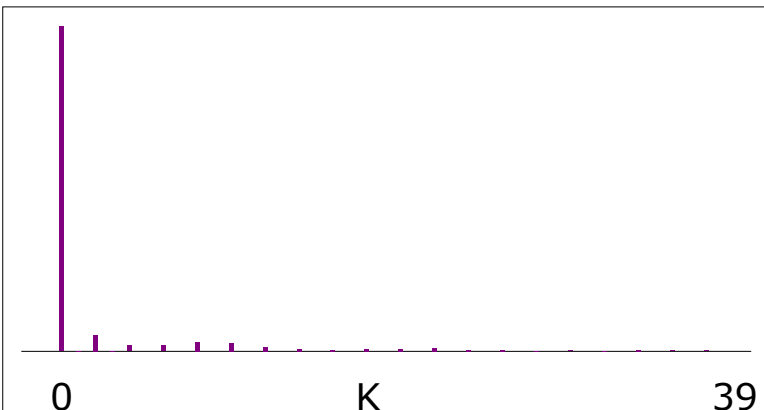


**Voltage**  
Sensitivity: 326.97 V/Div  
Peak: 326.97 V

**Current**  
Sensitivity: 0.0810 A  
Peak: 0.1620 A  
Start Phase: -7.0°  
Peak Phase: 77.3°  
End Phase: 170.2°



**Voltage Spectrum**  
THD(IEC): 0.59%  
H3: 0.50%  
H5: 0.05%  
H7: 0.04%  
H9: 0.04%



**Current Spectrum**  
THD(IEC): 7.4%  
H3: 5.06%  
H5: 1.78%  
H7: 1.84%  
H9: 2.96%

Type:LED 0803.W.U641.6.60086.600mA	Number:1
Manufacturer: Brasled	
Temperature:25iãC	Humidity:60%
Test Instrument: Lisun WT2080 LED Power Driver Tester	
Operator:	Inspector:
Test Time:2016-11-30	

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

Voltage: 229.96(V)

VCF: 1.422

Vthd(IEC): 0.59%

## Voltage Spectrum

Spectrum(k)	Rel.	Abs.(V)
0	0.02%	0.04
1	100.00%	229.97
2	0.23%	0.52
3	0.50%	1.15
4	0.09%	0.22
5	0.05%	0.11
6	0.02%	0.04
7	0.04%	0.09
8	0.01%	0.03
9	0.04%	0.10
10	0.01%	0.02
11	0.07%	0.16
12	0.01%	0.02
13	0.06%	0.13
14	0.01%	0.01
15	0.07%	0.15
16	0.00%	0.00
17	0.02%	0.06
18	0.00%	0.00
19	0.02%	0.05
20	0.00%	0.00
21	0.06%	0.13
22	0.00%	0.01
23	0.06%	0.13
24	0.00%	0.01
25	0.09%	0.20
26	0.01%	0.01
27	0.04%	0.10
28	0.01%	0.02
29	0.04%	0.08
30	0.00%	0.01
31	0.01%	0.03
32	0.01%	0.01
33	0.03%	0.07
34	0.00%	0.01
35	0.02%	0.04
36	0.00%	0.01
37	0.02%	0.05
38	0.00%	0.01
39	0.01%	0.02

Current: 0.1104(A)

ACF: 1.467

Athd(IEC): 7.41%

## Current Spectrum

Spectrum(k)	Rel.	Abs.(mA/W)
0	0.18%	0.01
1	100.00%	4.46
2	0.26%	0.01
3	5.06%	0.23
4	0.11%	0.01
5	1.78%	0.08
6	0.04%	0.00
7	1.84%	0.08
8	0.08%	0.00
9	2.96%	0.13
10	0.08%	0.00
11	2.56%	0.11
12	0.07%	0.00
13	1.46%	0.07
14	0.03%	0.00
15	0.88%	0.04
16	0.03%	0.00
17	0.58%	0.03
18	0.03%	0.00
19	0.71%	0.03
20	0.04%	0.00
21	0.72%	0.03
22	0.04%	0.00
23	1.05%	0.05
24	0.04%	0.00
25	0.45%	0.02
26	0.02%	0.00
27	0.40%	0.02
28	0.02%	0.00
29	0.25%	0.01
30	0.02%	0.00
31	0.38%	0.02
32	0.01%	0.00
33	0.25%	0.01
34	0.00%	0.00
35	0.43%	0.02
36	0.02%	0.00
37	0.32%	0.01
38	0.01%	0.00
39	0.33%	0.01

Type:LED 0803.W.U641.6.60086.600mA Number:1

Manufacturer: Brasled

Temperature:25iãC

Humidity:60%

Test Instrument: Lisun WT2080 LED Power Driver Tester

Operator:

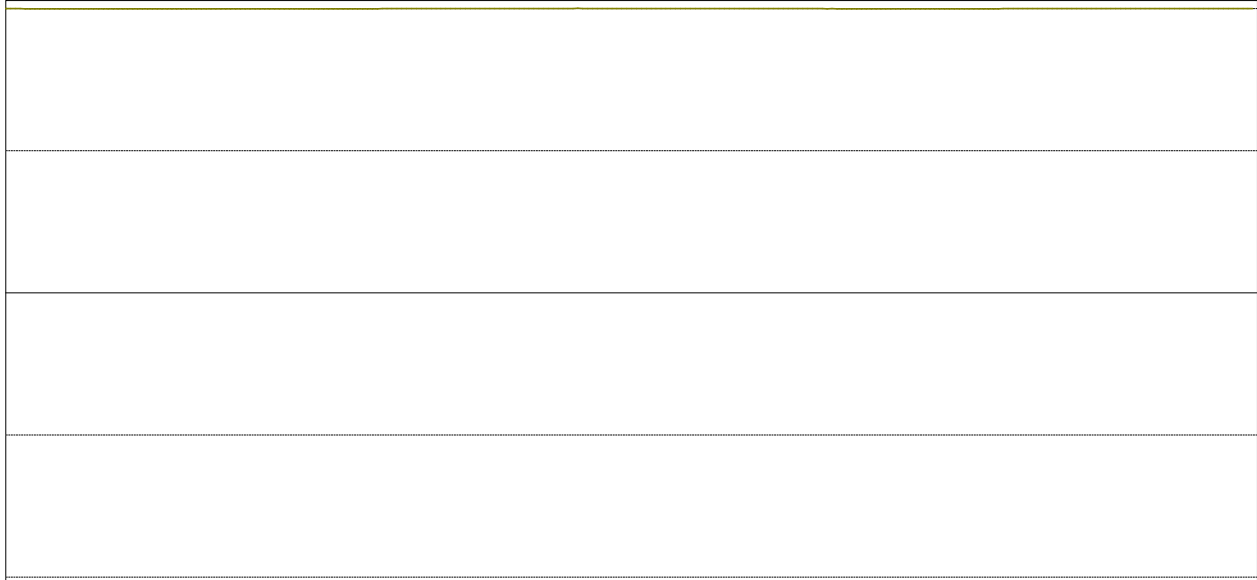
Inspector:

Test Time:2016-11-30

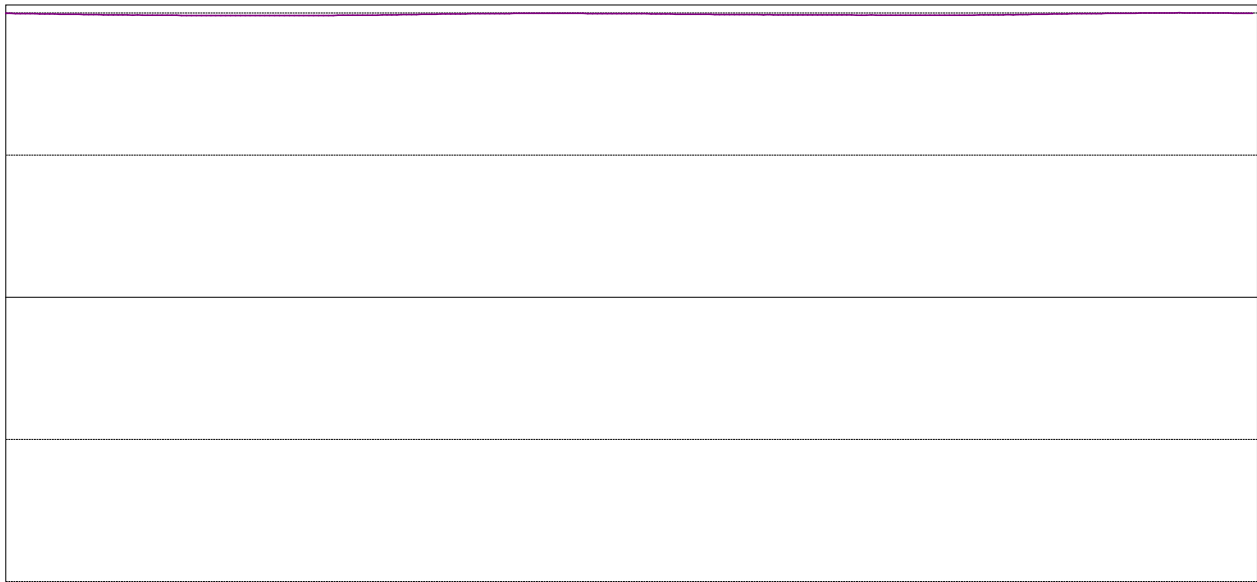
### Output

Lamp Voltage(rms):37.27V      Lamp Current(rms):0.5927A  
Power:22.09W      Ripple Current:0.000A      Energy Efficiency:0.893

#### Lamp Voltage Wave



#### Lamp Current Wave

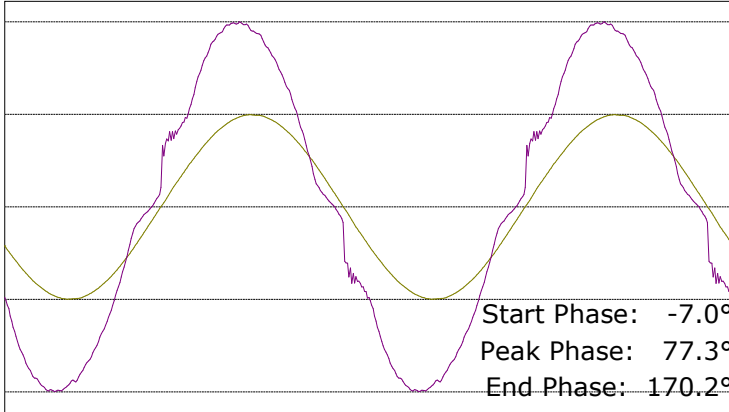


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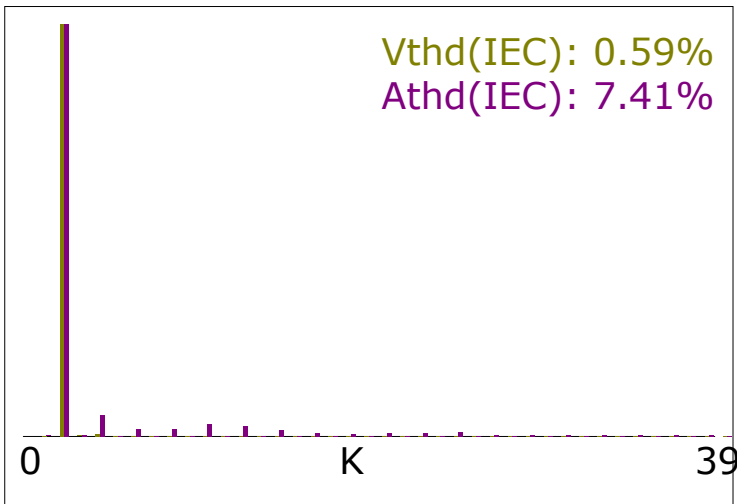
Type:LED 0803.W.U641.6.60086.600mA      Number:1  
Manufacturer: Brasled  
Temperature:25iãC      Humidity:60%  
Test Instrument: Lisun WT2080 LED Power Driver Tester  
Operator:      Inspector:  
Test Time:2016-11-30

# Input & Output Characteristics Test Report

## Input Characteristics Test Report [Narrow Band]



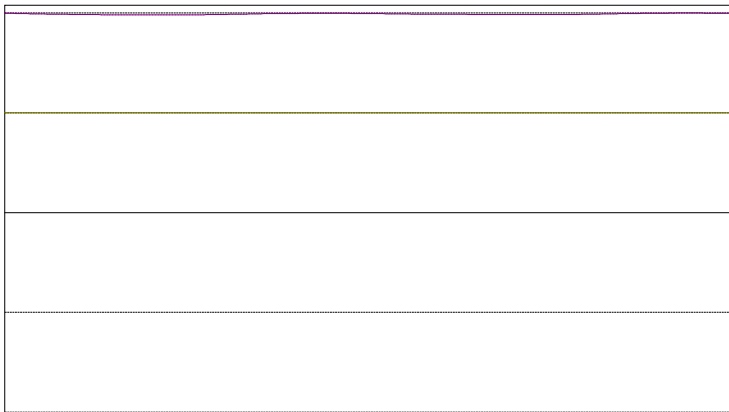
Voltage: 229.960(V)  
 VCF: 1.422  
 Vthd(IEC): 0.59%  
 Current: 0.110(A)  
 ACF: 1.467  
 Athd(IEC): 7.41%  
 Power: 24.7(W)  
 Power Factor: 0.9733  
 Frequency: 50.00(Hz)



Voltage Spectrum  
 H3: 0.50%  
 H5: 0.05%  
 H7: 0.04%  
 H9: 0.04%

Current Spectrum  
 H3: 5.06%  
 H5: 1.78%  
 H7: 1.84%  
 H9: 2.96%

## Output characteristics



Lamp Voltage(rms):37.27V  
 Lamp Current(rms):0.5927A  
 Power:22.09W  
 Ripple Current:0.000A  
 Energy Efficiency:0.893