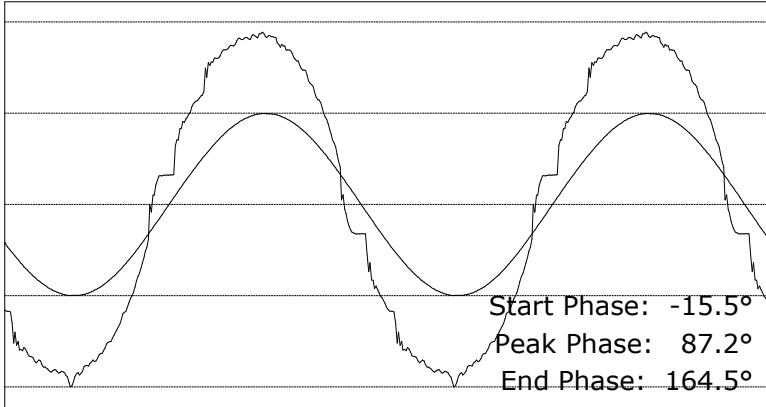
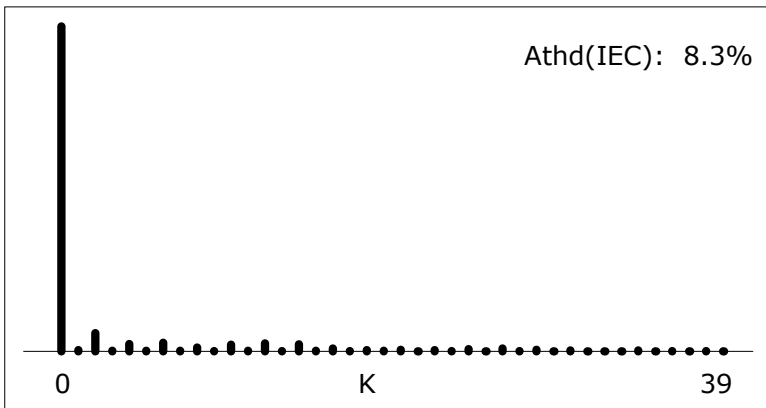
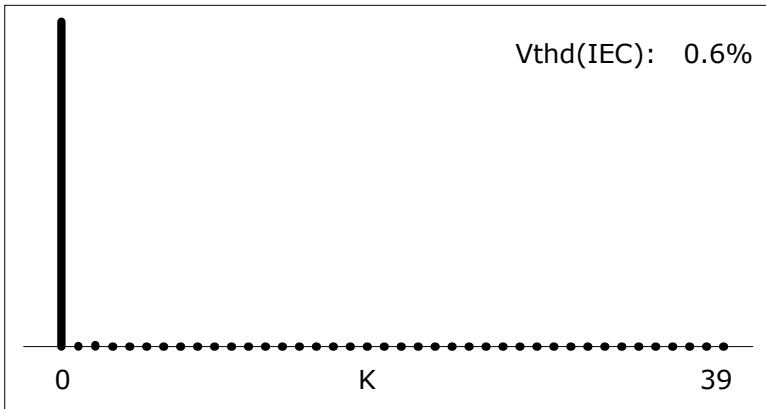


Input Characteristics Test Report [Narrow Band]

Voltage 230.83(V)      Current 0.0643(A)      Power 14.57(W)      Power Factor 0.9816      Frequency 50.00(Hz)



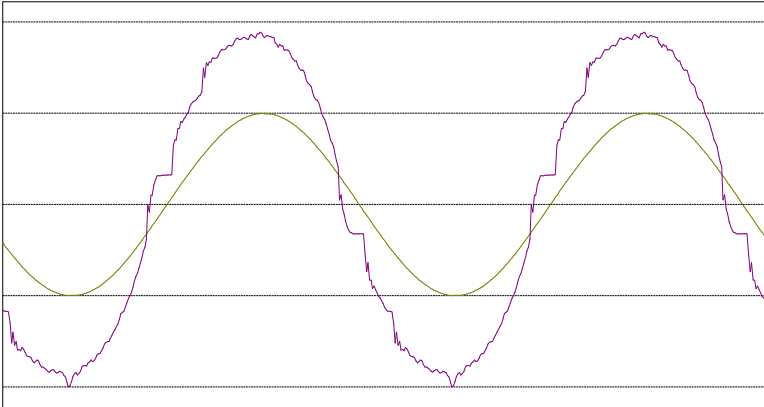
Spectrum(k)	Voltage	Current
0	0.0%	0.0%
1	100.0%	100.0%
2	0.2%	0.4%
3	0.5%	5.7%
4	0.1%	0.2%
5	0.1%	2.4%
6	0.0%	0.2%
7	0.1%	2.7%
8	0.0%	0.3%
9	0.0%	1.2%
10	0.0%	0.1%
11	0.0%	2.1%
12	0.0%	0.2%
13	0.0%	2.5%
14	0.0%	0.1%
15	0.1%	2.2%
16	0.0%	0.2%
17	0.0%	0.9%
18	0.0%	0.2%
19	0.0%	0.5%
20	0.0%	0.2%
21	0.0%	0.5%
22	0.0%	0.1%
23	0.0%	0.5%
24	0.0%	0.2%
25	0.1%	0.7%
26	0.0%	0.1%
27	0.0%	0.9%
28	0.0%	0.1%
29	0.0%	0.6%
30	0.0%	0.1%
31	0.0%	0.3%
32	0.0%	0.1%
33	0.0%	0.1%
34	0.0%	0.1%
35	0.0%	0.4%
36	0.0%	0.0%
37	0.0%	0.2%
38	0.0%	0.1%
39	0.0%	0.2%



Type:LED 0114.W.A331.6.60066.350mA      Number:1  
 Manufacturer: Brasled  
 Temperature:25iãC      Humidity:60%  
 Test Instrument: Lisun WT2080 LED Power Driver Tester  
 Operator:      Inspector:  
 Test Time:2016-11-08

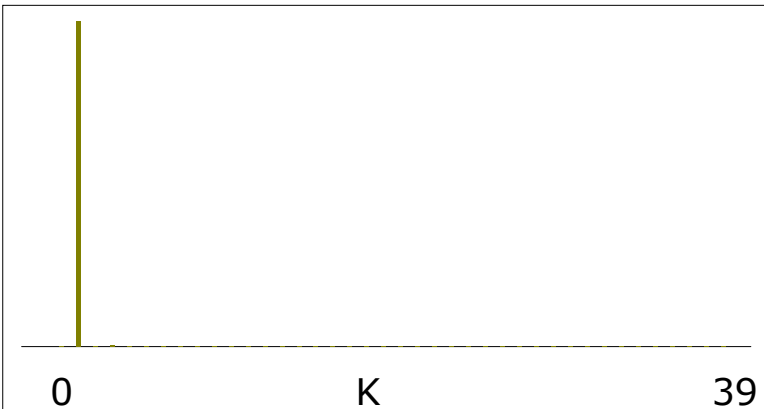
### Input Characteristics Test Report [Narrow Band]

Voltage	Current	Power	Power Factor	Frequency
230.83(V)	0.0643(A)	14.57(W)	0.9816	50.00(Hz)

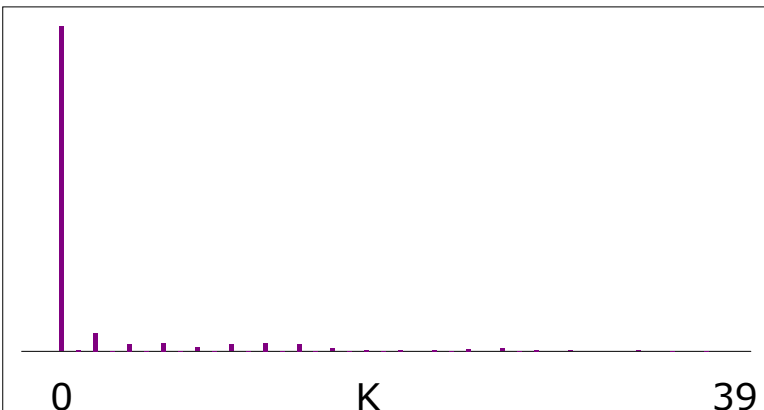


**Voltage**  
Sensitivity: 327.62 V/Div  
Peak: 327.62 V

**Current**  
Sensitivity: 0.0462 A  
Peak: 0.0925 A  
Start Phase: -15.5°  
Peak Phase: 87.2°  
End Phase: 164.5°



**Voltage Spectrum**  
THD(IEC): 0.58%  
H3: 0.51%  
H5: 0.07%  
H7: 0.06%  
H9: 0.02%



**Current Spectrum**  
THD(IEC): 8.3%  
H3: 5.70%  
H5: 2.36%  
H7: 2.74%  
H9: 1.23%

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

Voltage: 230.83(V)

VCF: 1.419

Vthd(IEC): 0.58%

## Voltage Spectrum

Spectrum(k)	Rel.	Abs.(V)
0	0.02%	0.06
1	100.00%	230.82
2	0.22%	0.51
3	0.51%	1.17
4	0.09%	0.20
5	0.07%	0.15
6	0.01%	0.03
7	0.06%	0.13
8	0.01%	0.02
9	0.02%	0.04
10	0.01%	0.03
11	0.04%	0.09
12	0.01%	0.02
13	0.03%	0.06
14	0.01%	0.02
15	0.05%	0.12
16	0.01%	0.01
17	0.01%	0.03
18	0.01%	0.01
19	0.01%	0.03
20	0.01%	0.03
21	0.04%	0.09
22	0.01%	0.03
23	0.03%	0.07
24	0.01%	0.02
25	0.06%	0.14
26	0.01%	0.01
27	0.04%	0.08
28	0.01%	0.02
29	0.01%	0.03
30	0.00%	0.00
31	0.01%	0.03
32	0.01%	0.01
33	0.01%	0.03
34	0.00%	0.00
35	0.01%	0.01
36	0.00%	0.01
37	0.00%	0.00
38	0.00%	0.01
39	0.01%	0.03

Current: 0.0643(A)

ACF: 1.438

Athd(IEC): 8.28%

## Current Spectrum

Spectrum(k)	Rel.	Abs.(mA/W)
0	0.02%	0.00
1	100.00%	4.39
2	0.42%	0.02
3	5.70%	0.25
4	0.24%	0.01
5	2.36%	0.10
6	0.23%	0.01
7	2.74%	0.12
8	0.26%	0.01
9	1.23%	0.05
10	0.13%	0.01
11	2.15%	0.09
12	0.23%	0.01
13	2.48%	0.11
14	0.12%	0.01
15	2.18%	0.10
16	0.23%	0.01
17	0.92%	0.04
18	0.15%	0.01
19	0.45%	0.02
20	0.25%	0.01
21	0.50%	0.02
22	0.08%	0.00
23	0.48%	0.02
24	0.17%	0.01
25	0.70%	0.03
26	0.09%	0.00
27	0.92%	0.04
28	0.12%	0.01
29	0.57%	0.02
30	0.07%	0.00
31	0.31%	0.01
32	0.06%	0.00
33	0.09%	0.00
34	0.07%	0.00
35	0.38%	0.02
36	0.04%	0.00
37	0.18%	0.01
38	0.05%	0.00
39	0.18%	0.01

Type:LED 0114.W.A331.6.60066.350mA Number:1

Manufacturer: Brasled

Temperature:25iãC

Humidity:60%

Test Instrument: Lisun WT2080 LED Power Driver Tester

Operator:

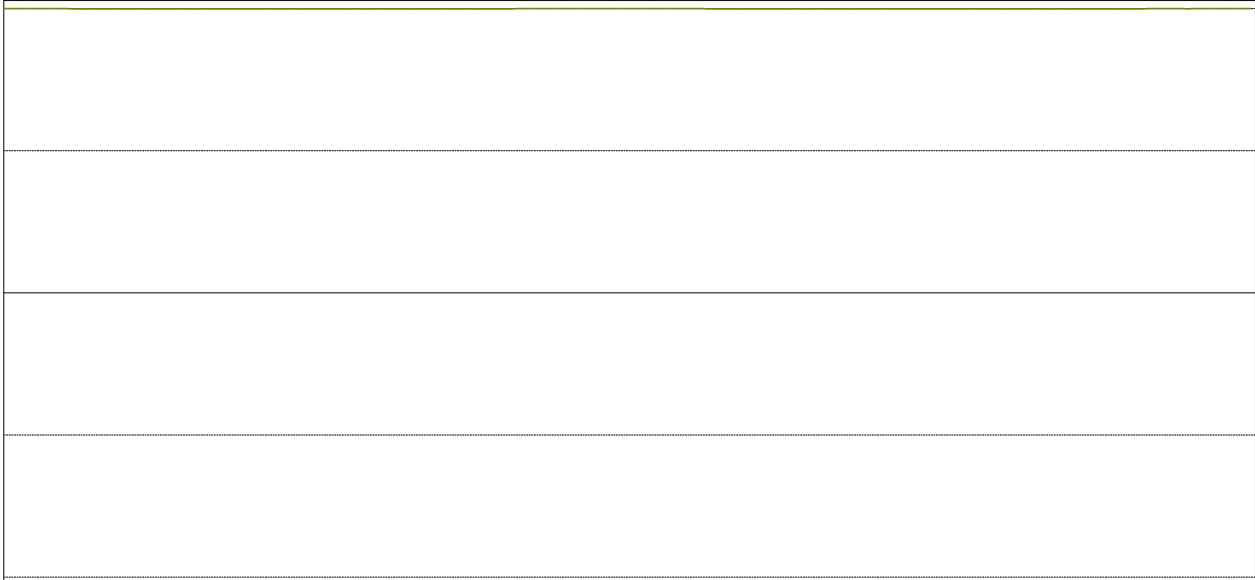
Inspector:

Test Time:2016-11-08

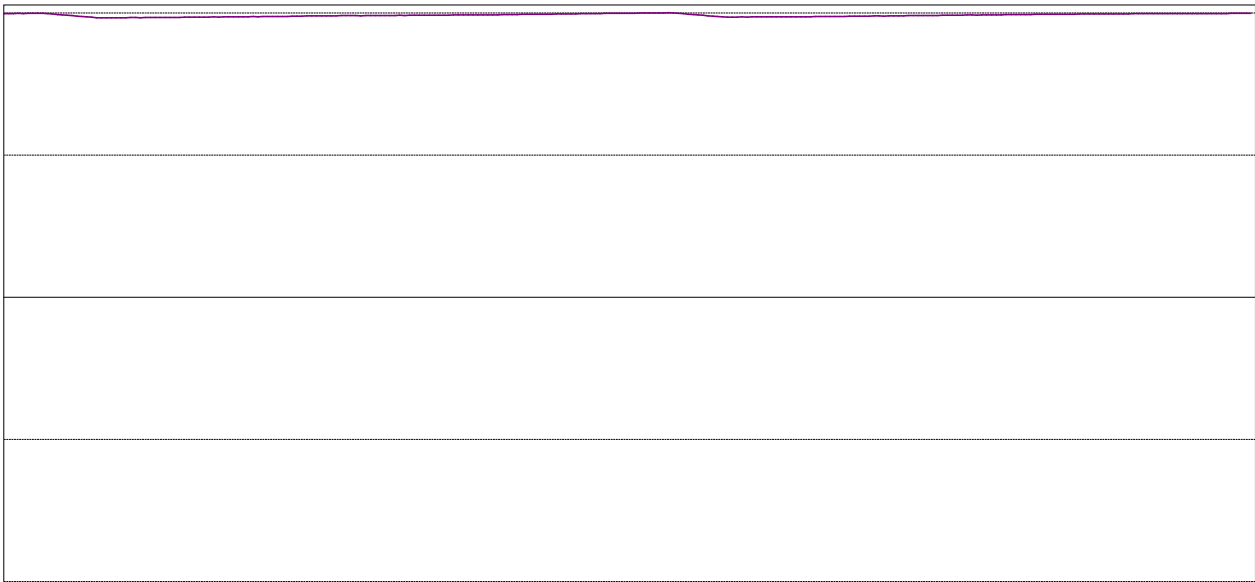
### Output

Lamp Voltage(rms):35.58V      Lamp Current(rms):0.3484A  
Power:12.40W      Ripple Current:0.000A      Energy Efficiency:0.850

#### Lamp Voltage Wave



#### Lamp Current Wave

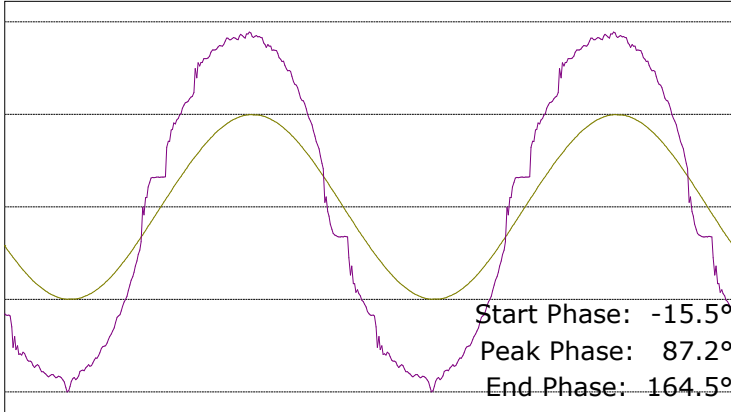


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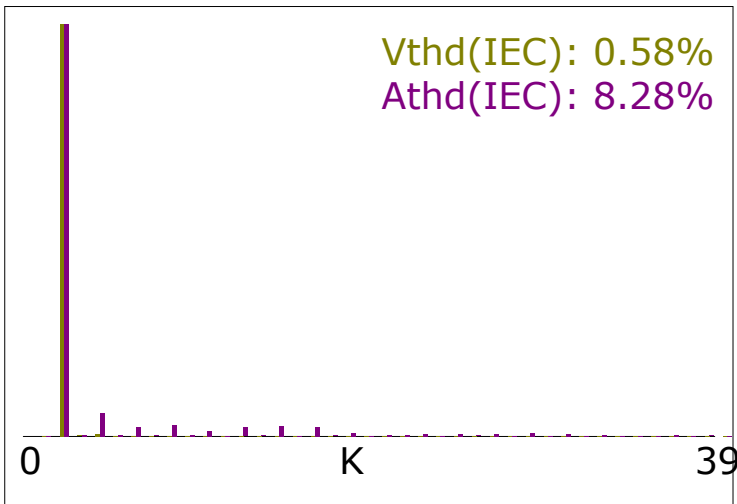
Type:LED 0114.W.A331.6.60066.350mA      Number:1  
Manufacturer: Brasled  
Temperature:25iãC      Humidity:60%  
Test Instrument: Lisun WT2080 LED Power Driver Tester  
Operator:      Inspector:  
Test Time:2016-11-08

## Input & Output Characteristics Test Report

### Input Characteristics Test Report [Narrow Band]



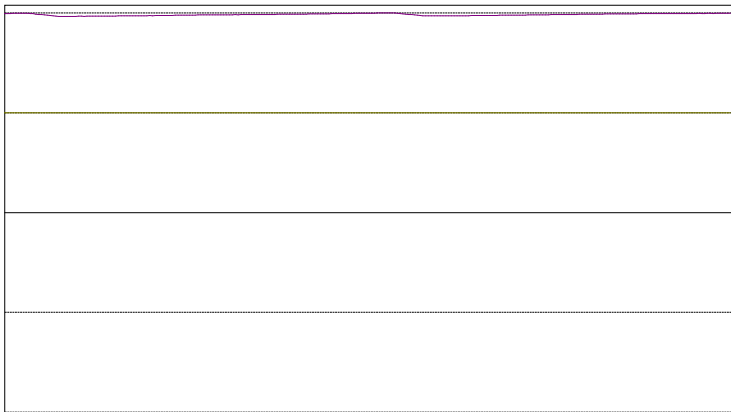
Voltage: 230.828(V)  
 VCF: 1.419  
 Vthd(IEC): 0.58%  
 Current: 0.064(A)  
 ACF: 1.438  
 Athd(IEC): 8.28%  
 Power: 14.6(W)  
 Power Factor: 0.9816  
 Frequency: 50.00(Hz)



Voltage Spectrum  
 H3: 0.51%  
 H5: 0.07%  
 H7: 0.06%  
 H9: 0.02%

Current Spectrum  
 H3: 5.70%  
 H5: 2.36%  
 H7: 2.74%  
 H9: 1.23%

### Output characteristics



Lamp Voltage(rms):35.58V  
 Lamp Current(rms):0.3484A  
 Power:12.40W  
 Ripple Current:0.000A  
 Energy Efficiency:0.850