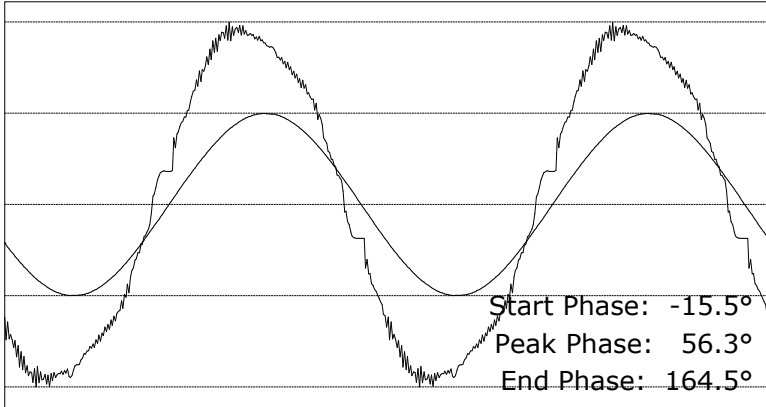
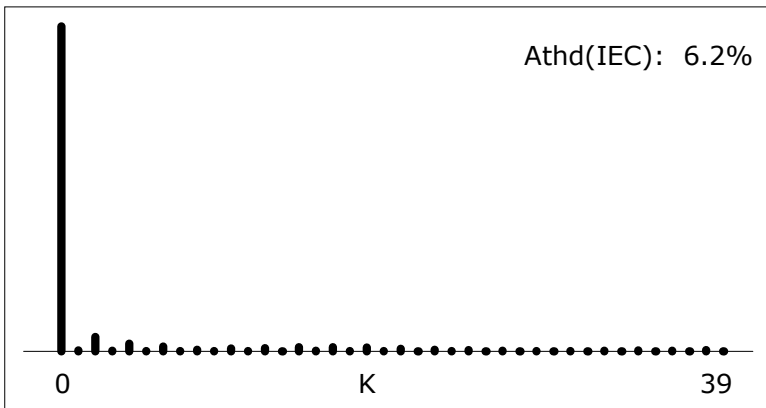
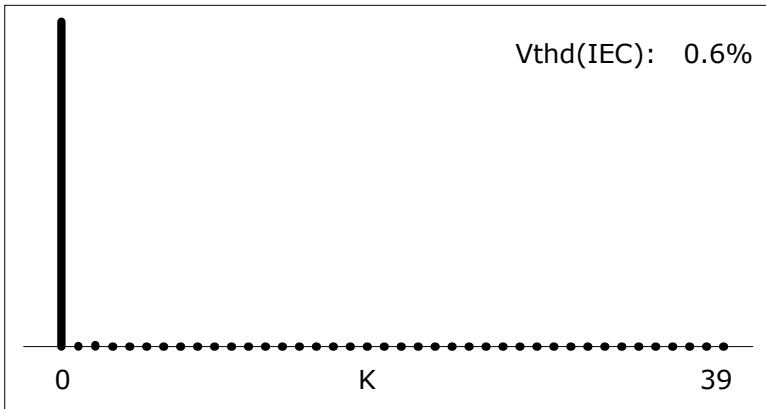


Input Characteristics Test Report [Narrow Band]

Voltage 229.94(V) Current 0.0861(A) Power 19.10(W) Power Factor 0.9644 Frequency 50.00(Hz)



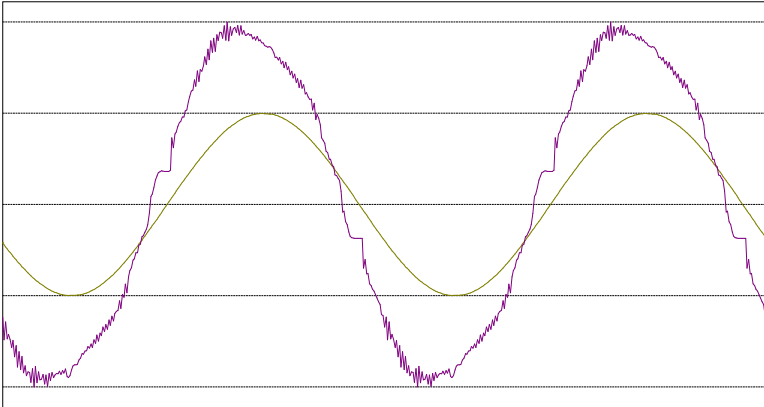
Spectrum(k)	Voltage	Current
0	0.0%	0.0%
1	100.0%	100.0%
2	0.2%	0.3%
3	0.5%	4.5%
4	0.1%	0.3%
5	0.0%	2.4%
6	0.0%	0.1%
7	0.1%	1.5%
8	0.0%	0.2%
9	0.0%	0.5%
10	0.0%	0.2%
11	0.1%	0.9%
12	0.0%	0.2%
13	0.0%	1.0%
14	0.0%	0.1%
15	0.1%	1.3%
16	0.0%	0.2%
17	0.0%	1.3%
18	0.0%	0.1%
19	0.0%	1.3%
20	0.0%	0.2%
21	0.1%	0.8%
22	0.0%	0.1%
23	0.0%	0.6%
24	0.0%	0.1%
25	0.1%	0.4%
26	0.0%	0.0%
27	0.0%	0.3%
28	0.0%	0.1%
29	0.0%	0.1%
30	0.0%	0.1%
31	0.0%	0.1%
32	0.0%	0.0%
33	0.0%	0.3%
34	0.0%	0.1%
35	0.0%	0.4%
36	0.0%	0.1%
37	0.0%	0.3%
38	0.0%	0.0%
39	0.0%	0.5%



Type:LED 0405.W.A531.6.60039.450mA Number:1
 Manufacturer: Brasled
 Temperature:25iãC Humidity:60%
 Test Instrument: Lisun WT2080 LED Power Driver Tester
 Operator: Inspector:
 Test Time:2016-12-07

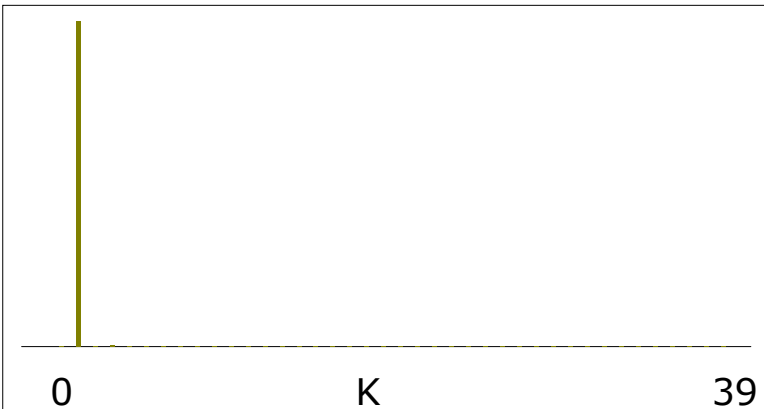
Input Characteristics Test Report [Narrow Band]

Voltage	Current	Power	Power Factor	Frequency
229.94(V)	0.0861(A)	19.10(W)	0.9644	50.00(Hz)

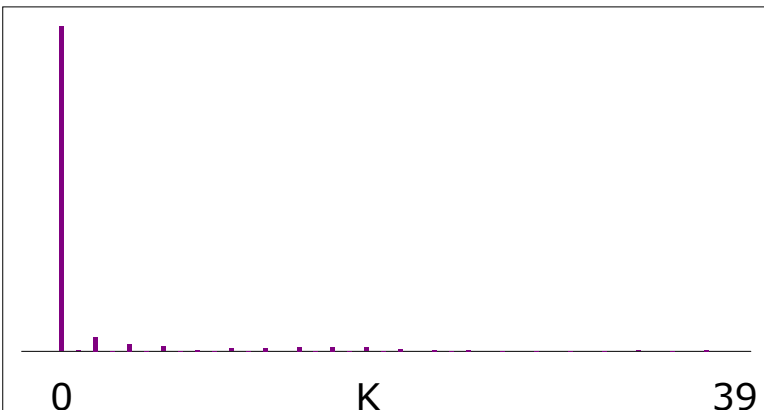


Voltage
Sensitivity: 326.56 V/Div
Peak: 326.56 V

Current
Sensitivity: 0.0623 A
Peak: 0.1246 A
Start Phase: -15.5°
Peak Phase: 56.3°
End Phase: 164.5°



Voltage Spectrum
THD(IEC): 0.61%
H3: 0.53%
H5: 0.02%
H7: 0.06%
H9: 0.01%



Current Spectrum
THD(IEC): 6.2%
H3: 4.46%
H5: 2.39%
H7: 1.50%
H9: 0.50%

Type:LED 0405.W.A531.6.60039.450mA	Number:1
Manufacturer: Brasled	
Temperature:25iãC	Humidity:60%
Test Instrument: Lisun WT2080 LED Power Driver Tester	
Operator:	Inspector:
Test Time:2016-12-07	

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

Voltage: 229.94(V)

VCF: 1.420

Vthd(IEC): 0.61%

Voltage Spectrum

Spectrum(k)	Rel.	Abs.(V)
0	0.03%	0.07
1	100.00%	229.93
2	0.23%	0.54
3	0.53%	1.22
4	0.10%	0.22
5	0.02%	0.05
6	0.01%	0.03
7	0.06%	0.13
8	0.01%	0.02
9	0.01%	0.01
10	0.01%	0.02
11	0.07%	0.16
12	0.01%	0.02
13	0.02%	0.05
14	0.01%	0.02
15	0.06%	0.14
16	0.01%	0.02
17	0.01%	0.02
18	0.01%	0.01
19	0.02%	0.05
20	0.01%	0.02
21	0.06%	0.14
22	0.01%	0.03
23	0.02%	0.04
24	0.02%	0.04
25	0.07%	0.17
26	0.01%	0.03
27	0.03%	0.06
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%	0.02
34	0.00%	0.00
35	0.02%	0.04
36	0.00%	0.01
37	0.01%	0.03
38	0.00%	0.01
39	0.01%	0.02

Current: 0.0861(A)

ACF: 1.447

Athd(IEC): 6.18%

Current Spectrum

Spectrum(k)	Rel.	Abs.(mA/W)
0	0.02%	0.00
1	100.00%	4.50
2	0.34%	0.02
3	4.46%	0.20
4	0.26%	0.01
5	2.39%	0.11
6	0.13%	0.01
7	1.50%	0.07
8	0.17%	0.01
9	0.50%	0.02
10	0.16%	0.01
11	0.90%	0.04
12	0.17%	0.01
13	1.02%	0.05
14	0.07%	0.00
15	1.34%	0.06
16	0.24%	0.01
17	1.31%	0.06
18	0.12%	0.01
19	1.26%	0.06
20	0.15%	0.01
21	0.82%	0.04
22	0.07%	0.00
23	0.59%	0.03
24	0.14%	0.01
25	0.41%	0.02
26	0.02%	0.00
27	0.26%	0.01
28	0.08%	0.00
29	0.12%	0.01
30	0.06%	0.00
31	0.15%	0.01
32	0.05%	0.00
33	0.29%	0.01
34	0.07%	0.00
35	0.39%	0.02
36	0.05%	0.00
37	0.27%	0.01
38	0.00%	0.00
39	0.48%	0.02

Type:LED 0405.W.A531.6.60039.450mA Number:1

Manufacturer: Brasled

Temperature:25iãC

Humidity:60%

Test Instrument: Lisun WT2080 LED Power Driver Tester

Operator:

Inspector:

Test Time:2016-12-07

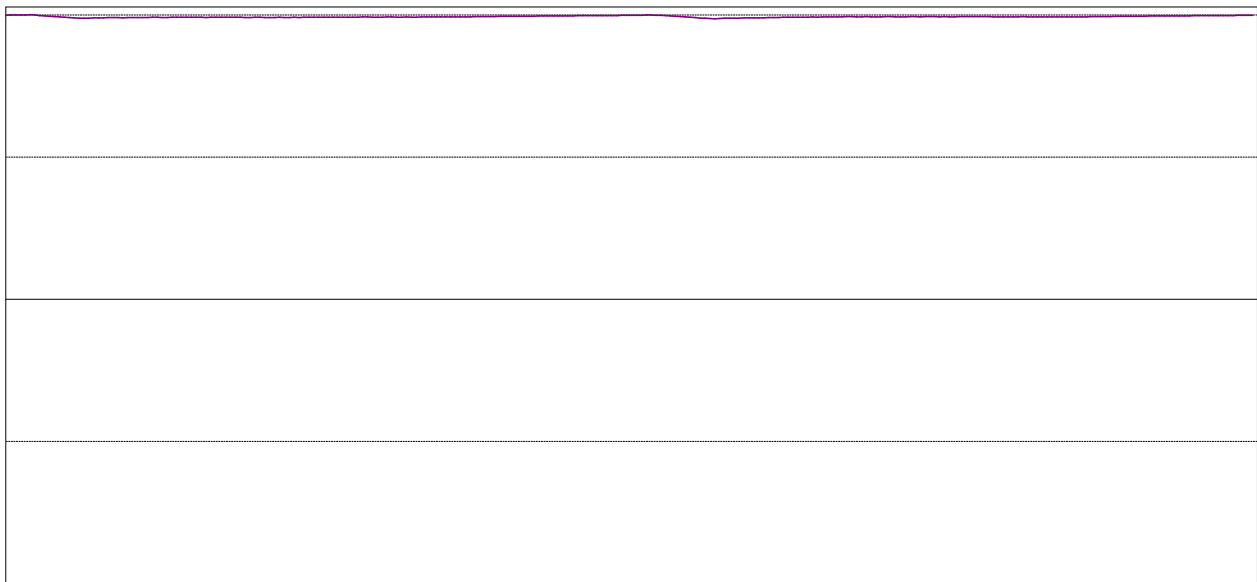
Output

Lamp Voltage(rms):37.35V Lamp Current(rms):0.4464A
Power:16.67W Ripple Current:0.000A Energy Efficiency:0.873

Lamp Voltage Wave



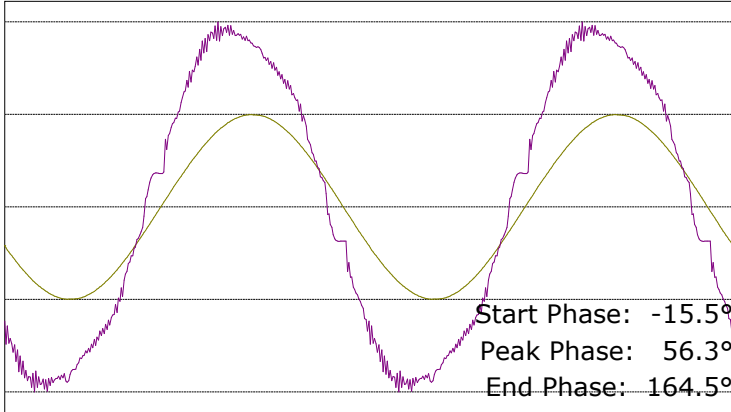
Lamp Current Wave



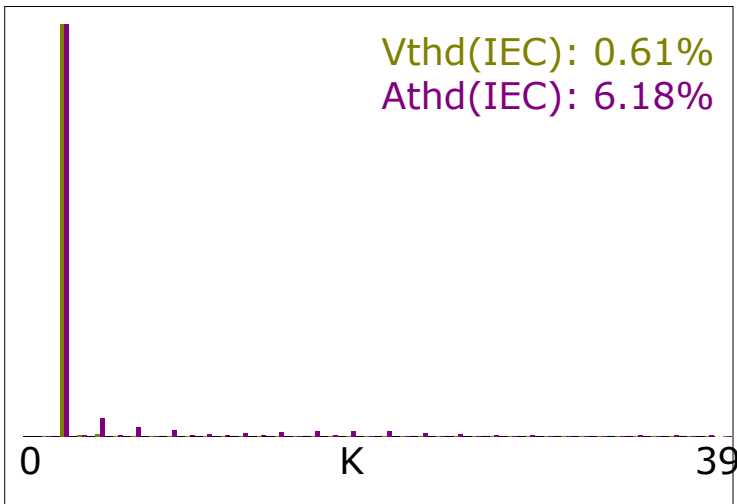
Type:LED 0405.W.A531.6.60039.450mA Number:1
Manufacturer: Brasled
Temperature:25iãC Humidity:60%
Test Instrument: Lisun WT2080 LED Power Driver Tester
Operator: Inspector:
Test Time:2016-12-07

Input & Output Characteristics Test Report

Input Characteristics Test Report [Narrow Band]



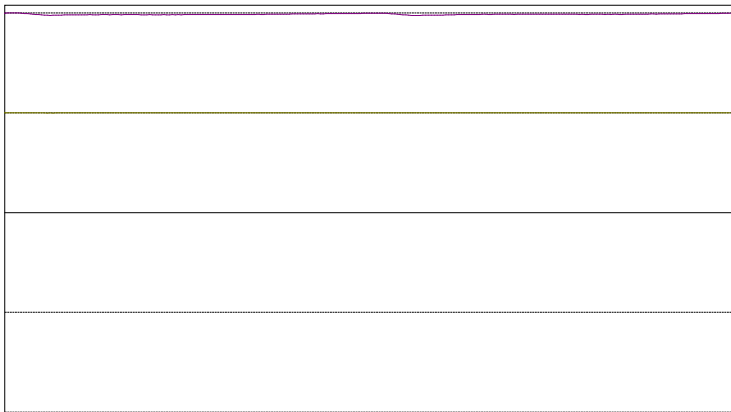
Voltage: 229.943(V)
 VCF: 1.420
 Vthd(IEC): 0.61%
 Current: 0.086(A)
 ACF: 1.447
 Athd(IEC): 6.18%
 Power: 19.1(W)
 Power Factor: 0.9644
 Frequency: 50.00(Hz)



Voltage Spectrum
 H3: 0.53%
 H5: 0.02%
 H7: 0.06%
 H9: 0.01%

Current Spectrum
 H3: 4.46%
 H5: 2.39%
 H7: 1.50%
 H9: 0.50%

Output characteristics



Lamp Voltage(rms):37.35V
 Lamp Current(rms):0.4464A
 Power:16.67W
 Ripple Current:0.000A
 Energy Efficiency:0.873