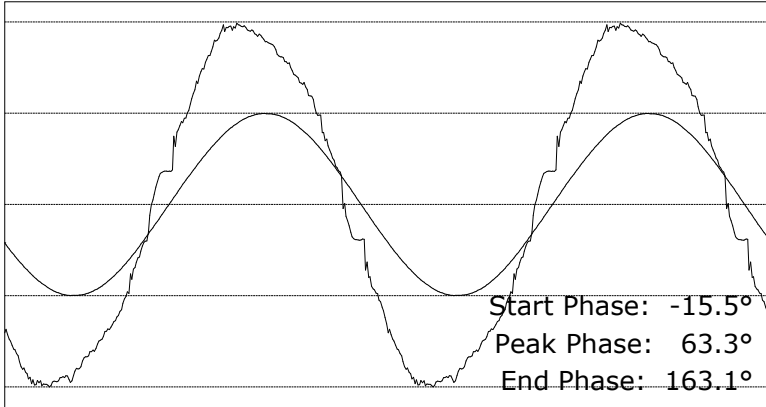
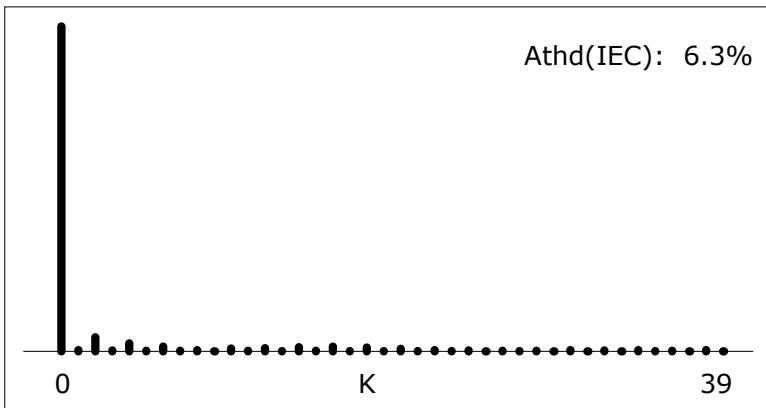
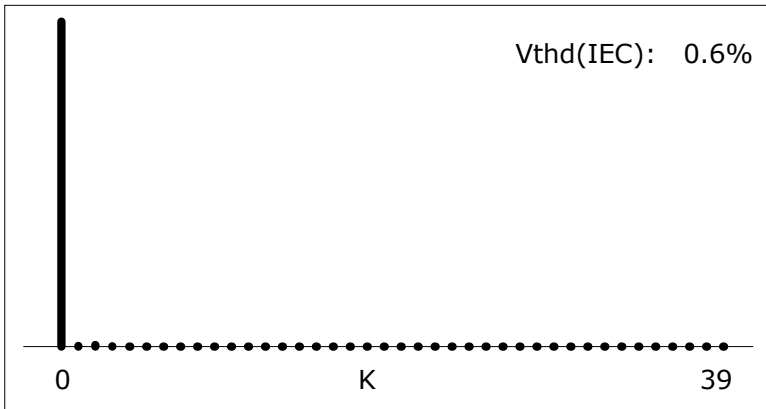


Input Characteristics Test Report [Narrow Band]

Voltage 230.10(V) Current 0.0830(A) Power 18.43(W) Power Factor 0.9651 Frequency 50.00(Hz)



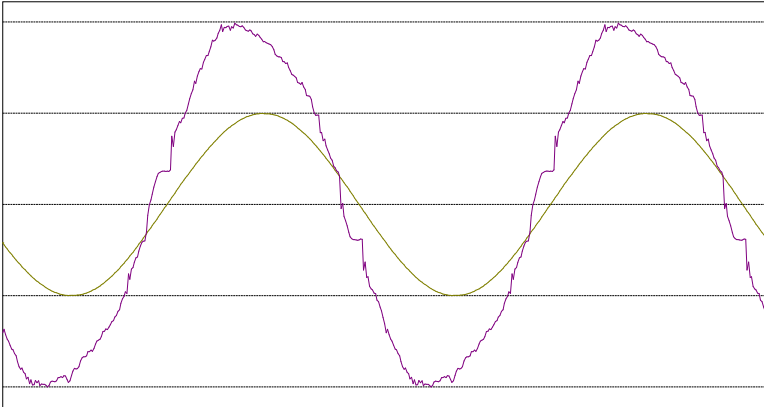
Spectrum(k)	Voltage	Current
0	0.0%	0.9%
1	100.0%	100.0%
2	0.2%	0.4%
3	0.5%	4.4%
4	0.1%	0.3%
5	0.1%	2.5%
6	0.0%	0.2%
7	0.1%	1.6%
8	0.0%	0.2%
9	0.0%	0.4%
10	0.0%	0.1%
11	0.1%	1.0%
12	0.0%	0.2%
13	0.0%	1.1%
14	0.0%	0.1%
15	0.0%	1.3%
16	0.0%	0.3%
17	0.0%	1.5%
18	0.0%	0.1%
19	0.0%	1.2%
20	0.0%	0.1%
21	0.1%	0.8%
22	0.0%	0.2%
23	0.0%	0.4%
24	0.0%	0.1%
25	0.1%	0.4%
26	0.0%	0.1%
27	0.0%	0.3%
28	0.0%	0.1%
29	0.0%	0.2%
30	0.0%	0.1%
31	0.0%	0.5%
32	0.0%	0.1%
33	0.0%	0.4%
34	0.0%	0.0%
35	0.0%	0.4%
36	0.0%	0.1%
37	0.0%	0.2%
38	0.0%	0.1%
39	0.0%	0.4%



Type:LED 0405.W.U541.6.60040.450mA Number:1
 Manufacturer: Brasled
 Temperature:25iãC Humidity:60%
 Test Instrument: Lisun WT2080 LED Power Driver Tester
 Operator: Inspector:
 Test Time:2016-12-07

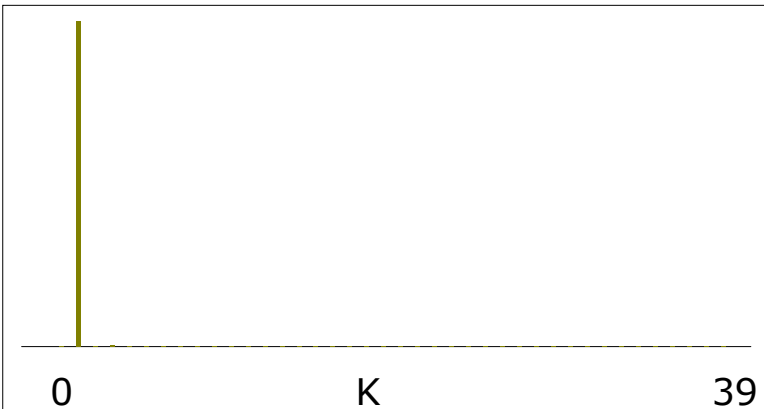
Input Characteristics Test Report [Narrow Band]

Voltage	Current	Power	Power Factor	Frequency
230.10(V)	0.0830(A)	18.43(W)	0.9651	50.00(Hz)

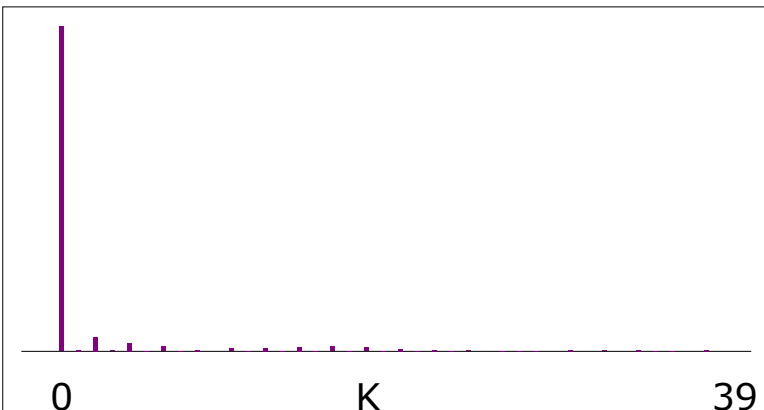


Voltage
Sensitivity: 326.51 V/Div
Peak: 326.51 V

Current
Sensitivity: 0.0587 A
Peak: 0.1173 A
Start Phase: -15.5°
Peak Phase: 63.3°
End Phase: 163.1°



Voltage Spectrum
THD(IEC): 0.61%
H3: 0.52%
H5: 0.07%
H7: 0.07%
H9: 0.01%



Current Spectrum
THD(IEC): 6.3%
H3: 4.41%
H5: 2.50%
H7: 1.55%
H9: 0.41%

Type:LED 0405.W.U541.6.60040.450mA	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: 230.10(V)
 VCF: 1.419
 Vthd(IEC): 0.61%

Current: 0.0830(A)
 ACF: 1.413
 Athd(IEC): 6.29%

Voltage Spectrum

Spectrum(k)	Rel.	Abs.(V)
0	0.02%	0.06
1	100.00%	230.09
2	0.24%	0.55
3	0.52%	1.20
4	0.10%	0.23
5	0.07%	0.17
6	0.01%	0.03
7	0.07%	0.16
8	0.01%	0.02
9	0.01%	0.02
10	0.01%	0.03
11	0.07%	0.16
12	0.01%	0.01
13	0.02%	0.05
14	0.01%	0.02
15	0.05%	0.11
16	0.01%	0.02
17	0.01%	0.02
18	0.01%	0.01
19	0.03%	0.07
20	0.01%	0.03
21	0.06%	0.13
22	0.01%	0.02
23	0.03%	0.06
24	0.01%	0.03
25	0.06%	0.13
26	0.01%	0.02
27	0.02%	0.05
28	0.01%	0.02
29	0.02%	0.04
30	0.00%	0.00
31	0.02%	0.05
32	0.01%	0.01
33	0.02%	0.04
34	0.00%	0.00
35	0.01%	0.02
36	0.00%	0.01
37	0.02%	0.04
38	0.00%	0.00
39	0.01%	0.01

Current Spectrum

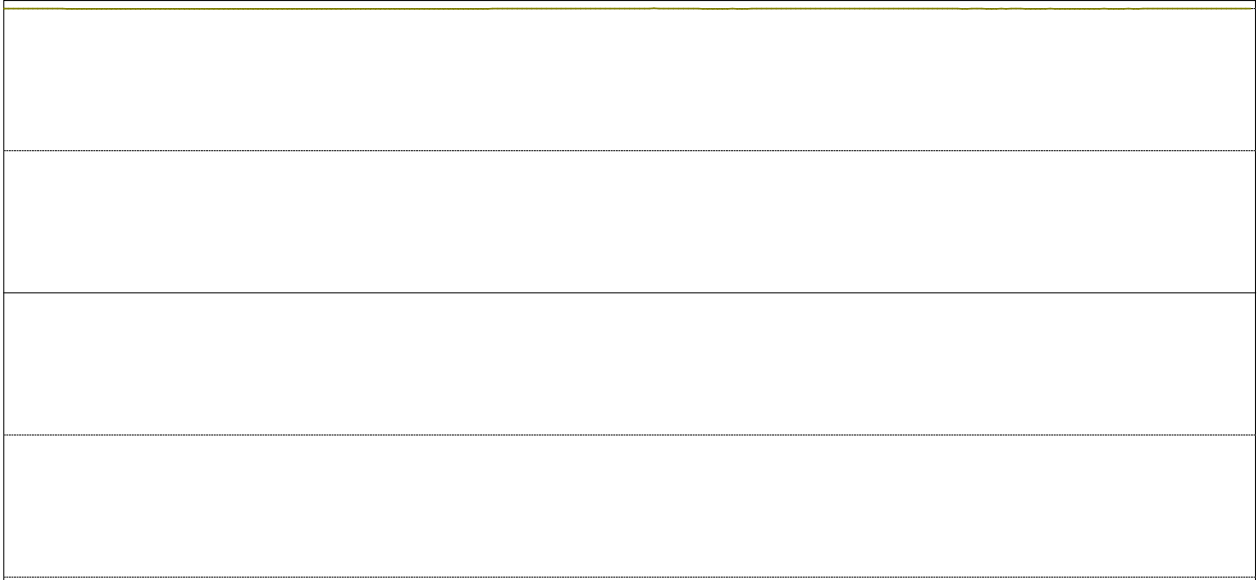
Spectrum(k)	Rel.	Abs.(mA/W)
0	0.85%	0.04
1	100.00%	4.49
2	0.40%	0.02
3	4.41%	0.20
4	0.32%	0.01
5	2.50%	0.11
6	0.20%	0.01
7	1.55%	0.07
8	0.21%	0.01
9	0.41%	0.02
10	0.07%	0.00
11	0.96%	0.04
12	0.25%	0.01
13	1.07%	0.05
14	0.14%	0.01
15	1.33%	0.06
16	0.26%	0.01
17	1.49%	0.07
18	0.15%	0.01
19	1.21%	0.05
20	0.14%	0.01
21	0.79%	0.04
22	0.17%	0.01
23	0.42%	0.02
24	0.14%	0.01
25	0.37%	0.02
26	0.06%	0.00
27	0.27%	0.01
28	0.14%	0.01
29	0.22%	0.01
30	0.08%	0.00
31	0.45%	0.02
32	0.10%	0.00
33	0.36%	0.02
34	0.01%	0.00
35	0.42%	0.02
36	0.11%	0.00
37	0.23%	0.01
38	0.07%	0.00
39	0.42%	0.02

Type:LED 0405.W.U541.6.60040.450mA Number:1
 Manufacturer: Brasled
 Temperature:25iãC Humidity:60%
 Test Instrument: Lisun WT2080 LED Power Driver Tester
 Operator: Inspector:
 Test Time:2016-12-07

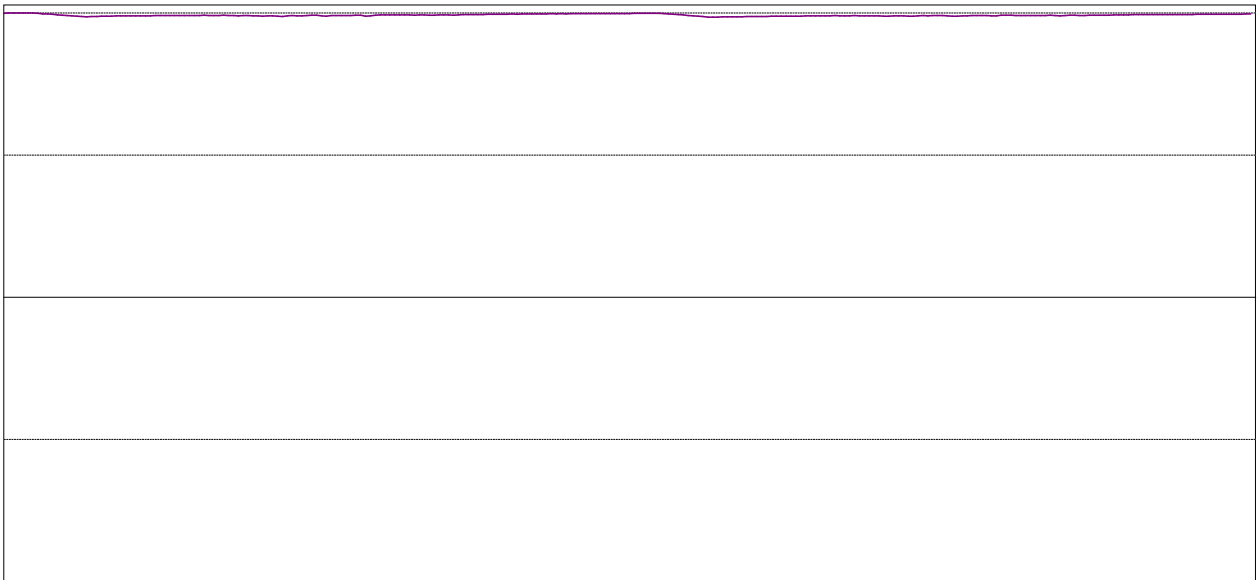
Output

Lamp Voltage(rms):35.25V Lamp Current(rms):0.4550A
Power:16.04W Ripple Current:0.000A Energy Efficiency:0.870

Lamp Voltage Wave



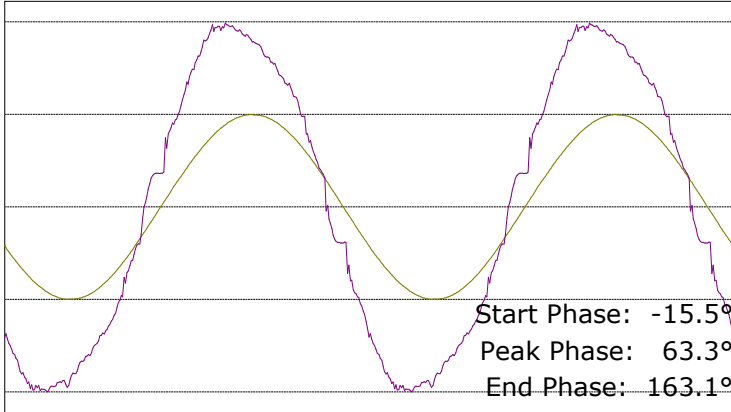
Lamp Current Wave



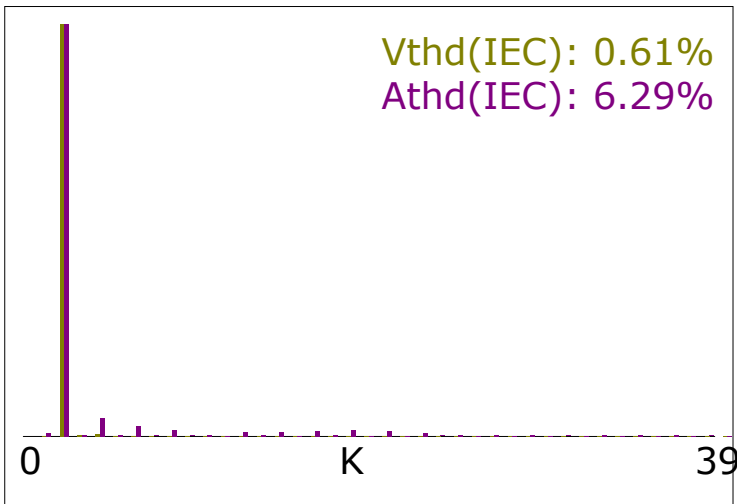
Type:LED 0405.W.U541.6.60040.450mA Number:1
Manufacturer: Brasled
Temperature:25iãC Humidity:60%
Test Instrument: Lisun WT2080 LED Power Driver Tester
Operator: Inspector:
Test Time:2016-12-07

Input & Output Characteristics Test Report

Input Characteristics Test Report [Narrow Band]



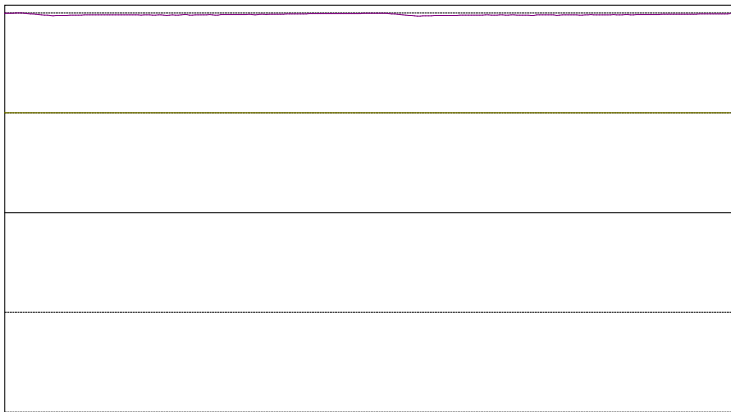
Voltage: 230.098(V)
 VCF: 1.419
 Vthd(IEC): 0.61%
 Current: 0.083(A)
 ACF: 1.413
 Athd(IEC): 6.29%
 Power: 18.4(W)
 Power Factor: 0.9651
 Frequency: 50.00(Hz)



Voltage Spectrum
 H3: 0.52%
 H5: 0.07%
 H7: 0.07%
 H9: 0.01%

Current Spectrum
 H3: 4.41%
 H5: 2.50%
 H7: 1.55%
 H9: 0.41%

Output characteristics



Lamp Voltage(rms):35.25V
 Lamp Current(rms):0.4550A
 Power:16.04W
 Ripple Current:0.000A
 Energy Efficiency:0.870