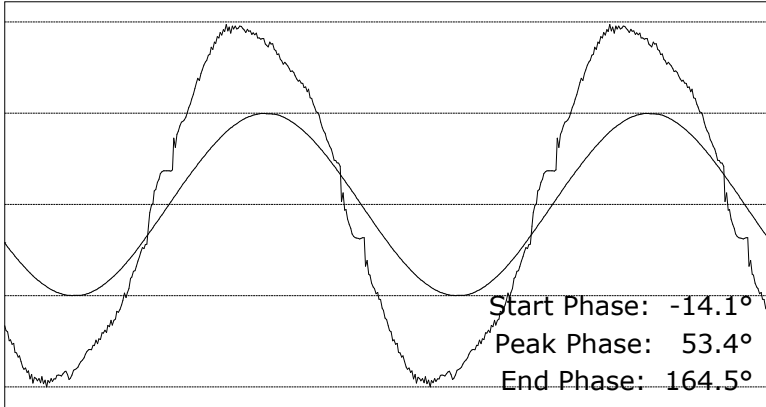
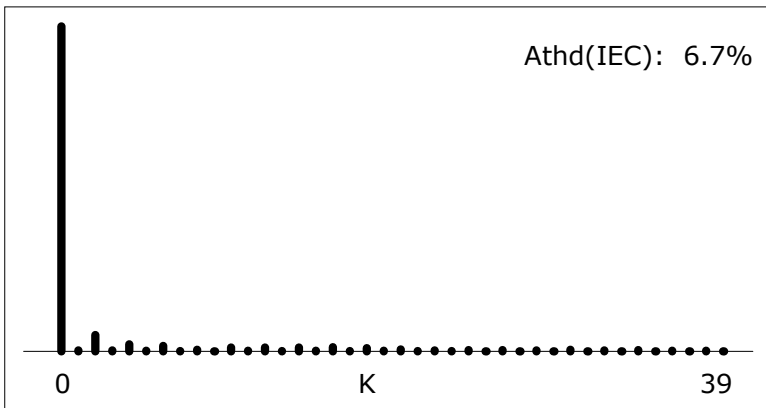
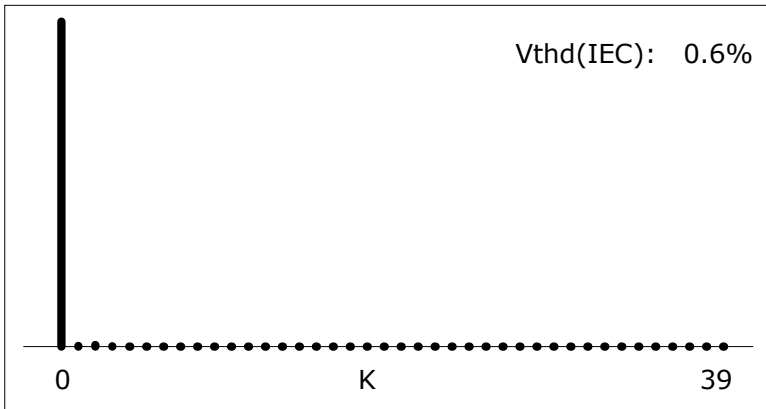


Input Characteristics Test Report [Narrow Band]

Voltage 230.05(V) Current 0.0853(A) Power 18.95(W) Power Factor 0.9654 Frequency 50.00(Hz)



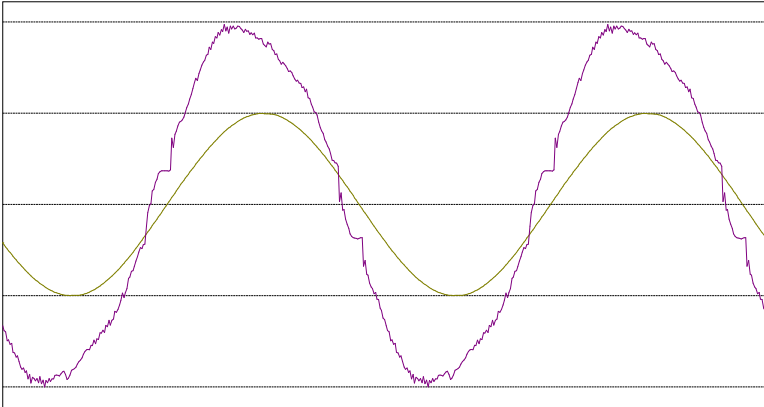
Spectrum(k)	Voltage	Current
0	0.0%	0.0%
1	100.0%	100.0%
2	0.2%	0.4%
3	0.6%	5.0%
4	0.1%	0.3%
5	0.1%	2.2%
6	0.0%	0.2%
7	0.1%	1.8%
8	0.0%	0.1%
9	0.0%	0.5%
10	0.0%	0.1%
11	0.1%	1.2%
12	0.0%	0.3%
13	0.0%	1.3%
14	0.0%	0.2%
15	0.1%	1.3%
16	0.0%	0.2%
17	0.0%	1.3%
18	0.0%	0.2%
19	0.0%	1.0%
20	0.0%	0.2%
21	0.1%	0.6%
22	0.0%	0.1%
23	0.0%	0.3%
24	0.0%	0.2%
25	0.1%	0.4%
26	0.0%	0.1%
27	0.0%	0.4%
28	0.0%	0.1%
29	0.0%	0.3%
30	0.0%	0.0%
31	0.0%	0.5%
32	0.0%	0.1%
33	0.0%	0.3%
34	0.0%	0.0%
35	0.0%	0.5%
36	0.0%	0.0%
37	0.0%	0.2%
38	0.0%	0.1%
39	0.0%	0.2%



Type:LED 0410.W.A531.6.60043.450mA Number:1
 Manufacturer: Brasled
 Temperature:25iãC Humidity:60%
 Test Instrument: Lisun WT2080 LED Power Driver Tester
 Operator: Inspector:
 Test Time:2016-11-29

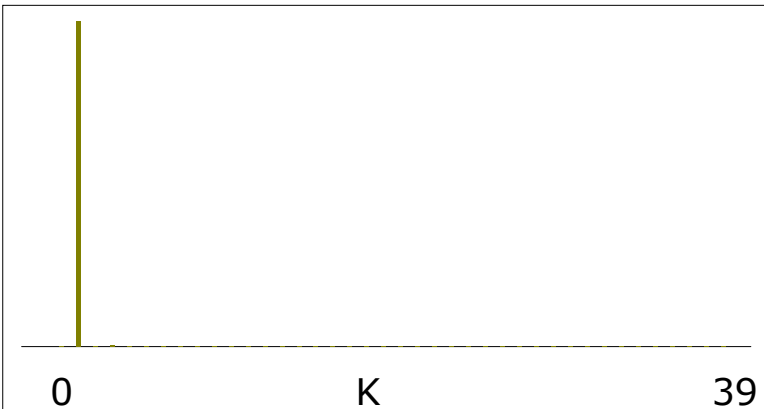
Input Characteristics Test Report [Narrow Band]

Voltage	Current	Power	Power Factor	Frequency
230.05(V)	0.0853(A)	18.95(W)	0.9654	50.00(Hz)

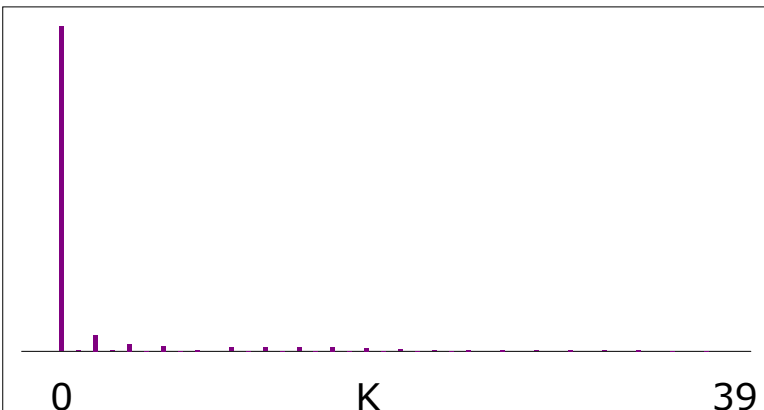


Voltage
Sensitivity: 326.29 V/Div
Peak: 326.29 V

Current
Sensitivity: 0.0611 A
Peak: 0.1221 A
Start Phase: -14.1°
Peak Phase: 53.4°
End Phase: 164.5°



Voltage Spectrum
THD(IEC): 0.64%
H3: 0.55%
H5: 0.06%
H7: 0.07%
H9: 0.03%



Current Spectrum
THD(IEC): 6.7%
H3: 5.05%
H5: 2.24%
H7: 1.76%
H9: 0.55%

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

Voltage: 230.05(V)

VCF: 1.418

Vthd(IEC): 0.64%

Voltage Spectrum

Spectrum(k)	Rel.	Abs.(V)
0	0.02%	0.05
1	100.00%	230.06
2	0.23%	0.53
3	0.55%	1.27
4	0.10%	0.24
5	0.06%	0.13
6	0.01%	0.03
7	0.07%	0.17
8	0.01%	0.02
9	0.03%	0.06
10	0.01%	0.02
11	0.09%	0.20
12	0.01%	0.02
13	0.04%	0.09
14	0.01%	0.02
15	0.06%	0.14
16	0.01%	0.02
17	0.02%	0.04
18	0.01%	0.01
19	0.01%	0.03
20	0.01%	0.02
21	0.05%	0.12
22	0.01%	0.03
23	0.04%	0.09
24	0.00%	0.01
25	0.05%	0.12
26	0.00%	0.01
27	0.03%	0.07
28	0.01%	0.02
29	0.03%	0.06
30	0.00%	0.01
31	0.02%	0.05
32	0.01%	0.02
33	0.02%	0.04
34	0.00%	0.00
35	0.01%	0.02
36	0.00%	0.01
37	0.01%	0.03
38	0.00%	0.00
39	0.00%	0.01

Current: 0.0853(A)

ACF: 1.431

Athd(IEC): 6.69%

Current Spectrum

Spectrum(k)	Rel.	Abs.(mA/W)
0	0.02%	0.00
1	100.00%	4.49
2	0.36%	0.02
3	5.05%	0.23
4	0.30%	0.01
5	2.24%	0.10
6	0.21%	0.01
7	1.76%	0.08
8	0.10%	0.00
9	0.55%	0.02
10	0.08%	0.00
11	1.23%	0.06
12	0.28%	0.01
13	1.26%	0.06
14	0.20%	0.01
15	1.25%	0.06
16	0.24%	0.01
17	1.32%	0.06
18	0.17%	0.01
19	1.01%	0.05
20	0.20%	0.01
21	0.60%	0.03
22	0.10%	0.00
23	0.30%	0.01
24	0.15%	0.01
25	0.41%	0.02
26	0.06%	0.00
27	0.45%	0.02
28	0.10%	0.00
29	0.35%	0.02
30	0.00%	0.00
31	0.50%	0.02
32	0.08%	0.00
33	0.30%	0.01
34	0.04%	0.00
35	0.48%	0.02
36	0.03%	0.00
37	0.22%	0.01
38	0.05%	0.00
39	0.21%	0.01

Type:LED 0410.W.A531.6.60043.450mA

Number:1

Manufacturer: Brasled

Temperature:25iãC

Humidity:60%

Test Instrument: Lisun WT2080 LED Power Driver Tester

Operator:

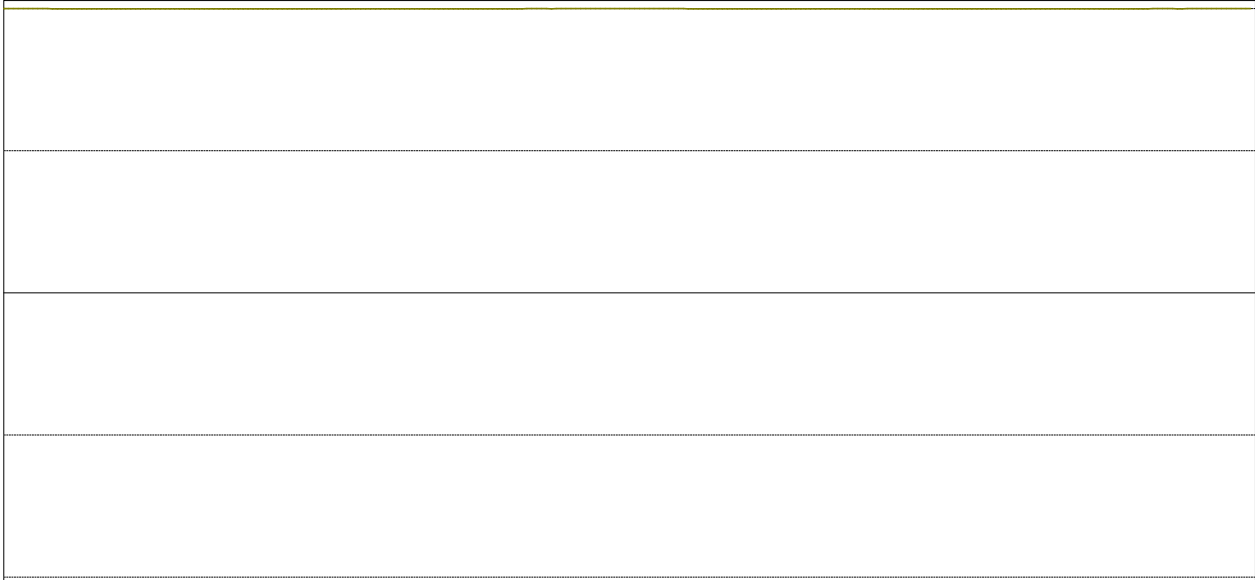
Inspector:

Test Time:2016-11-29

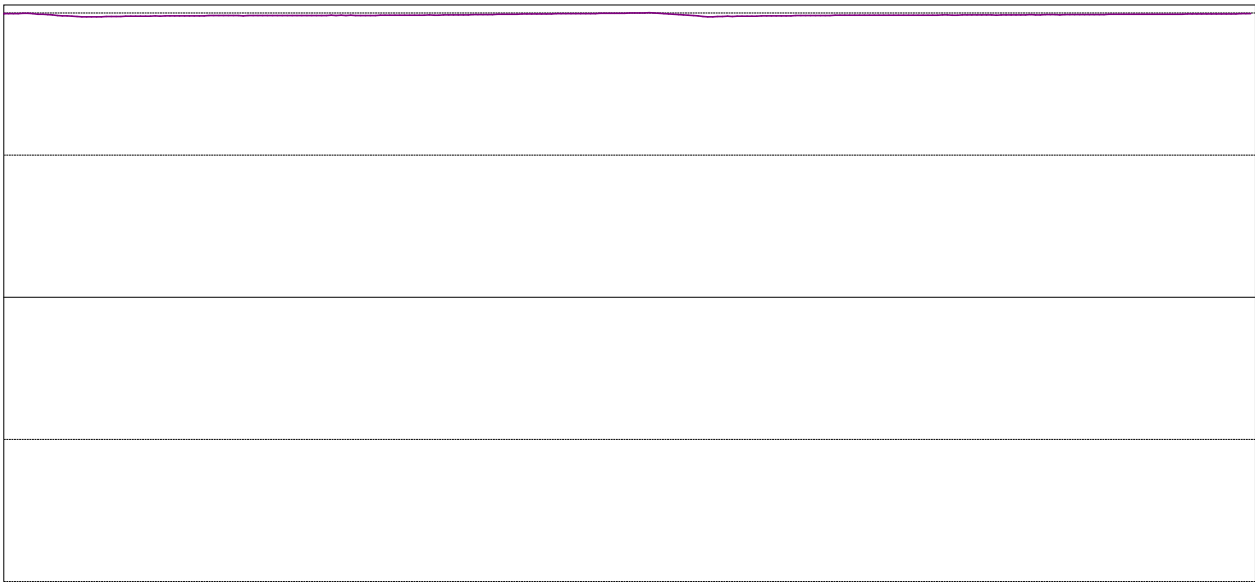
Output

Lamp Voltage(rms):36.44V Lamp Current(rms):0.4548A
Power:16.57W Ripple Current:0.000A Energy Efficiency:0.873

Lamp Voltage Wave



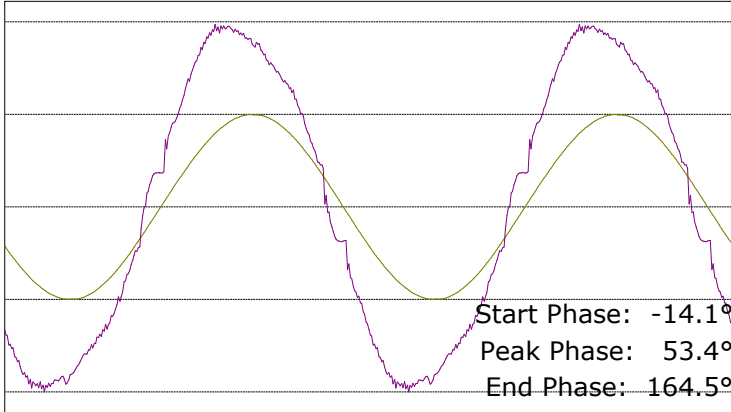
Lamp Current Wave



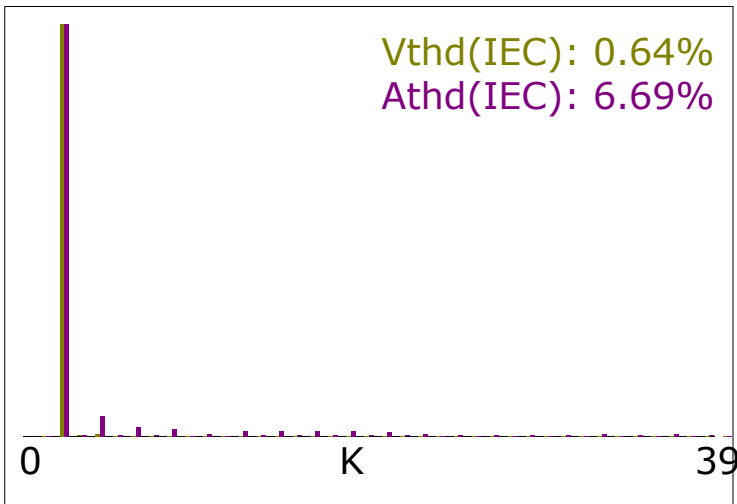
Type:LED 0410.W.A531.6.60043.450mA Number:1
Manufacturer: Brasled
Temperature:25iãC Humidity:60%
Test Instrument: Lisun WT2080 LED Power Driver Tester
Operator: Inspector:
Test Time:2016-11-29

Input & Output Characteristics Test Report

Input Characteristics Test Report [Narrow Band]



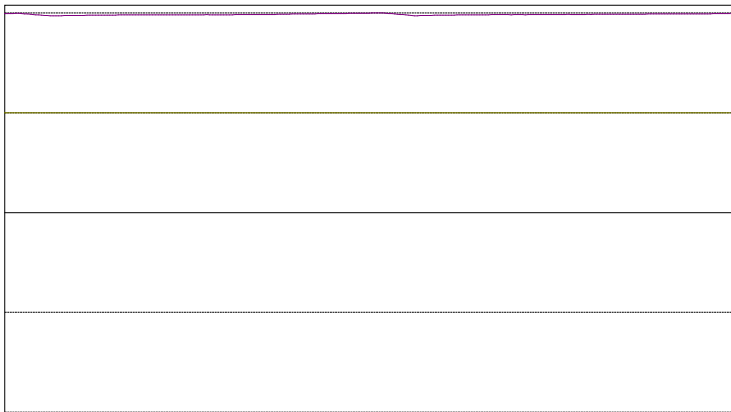
Voltage: 230.049(V)
VCF: 1.418
Vthd(IEC): 0.64%
Current: 0.085(A)
ACF: 1.431
Athd(IEC): 6.69%
Power: 19.0(W)
Power Factor: 0.9654
Frequency: 50.00(Hz)



Voltage Spectrum
H3: 0.55%
H5: 0.06%
H7: 0.07%
H9: 0.03%

Current Spectrum
H3: 5.05%
H5: 2.24%
H7: 1.76%
H9: 0.55%

Output characteristics



Lamp Voltage(rms):36.44V
Lamp Current(rms):0.4548A
Power:16.57W
Ripple Current:0.000A
Energy Efficiency:0.873