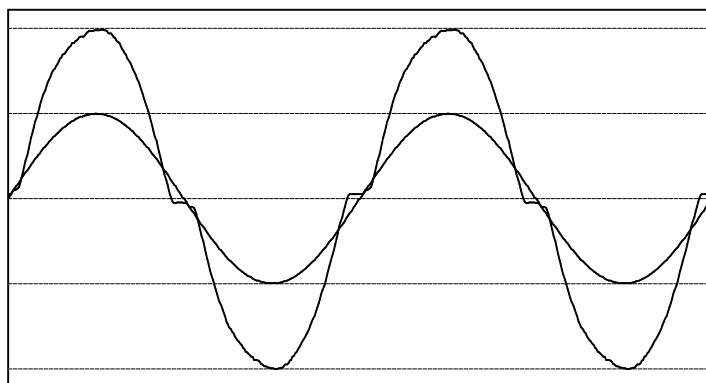


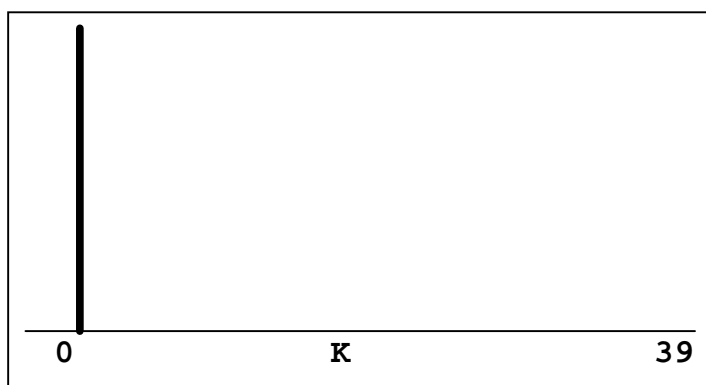
## Electronic Ballast Test Report

### Input Characteristics[Narrow Band](I)

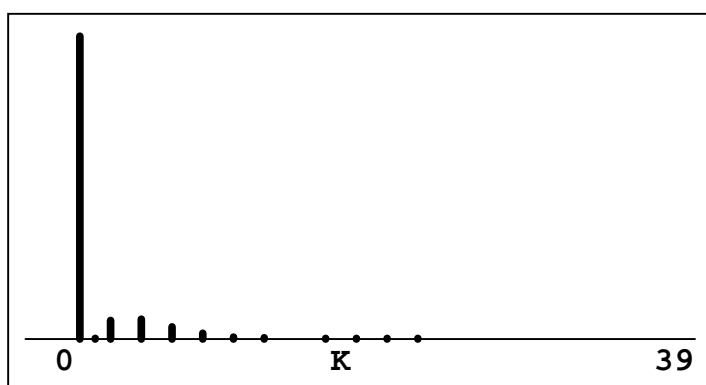
Vrms	Arms	Power	PF	Freq.
204.5(V)	0.459(A)	93.34(W)	0.994	49.99(Hz)



Voltage  
Sensitivity :289.42 V/Div  
Peak Voltage:289.4 V  
Current  
Sensitivity: 0.332 A/Div  
Peak Current:0.661 A  
Start Phase: 0.0 ~  
Peak Phase: 95.6 ~  
End Phase: 165.9~



Voltage Spec.  
Vthd: 0.2%(IEC)  
Vh3 : 0.2%  
Vh5 : 0.1%  
Vh7 : 0.1%  
Vh9 : 0.0%



Current Spec.  
Athd: 10.3%(IEC)  
Ah3 : 6.3%  
Ah5 : 6.6%  
Ah7 : 4.1%  
Ah9 : 2.0%

Test Instrument:Everfine HB-5A System  
Manufacturer:Mosdesign  
Type:dimmer  
Temperature:25deg  
Operator:

Number:1  
Humidity:75%  
Inspector:

## Electronic Ballast Test Report

### Input Characteristics[Narrow Band](II)

Vrms:204.5(V)  
VCF :1.42  
Vthd: 0.2%(IEC)

Arms:0.459(A)  
Acf : 1.44  
Athd: 10.3%(IEC)

#### Voltage Spectrum

K	relat.	Vrmsk
0	0.0%	0.0
1	100.0%	204.5
2	0.1%	0.1
3	0.2%	0.4
4	0.0%	0.1
5	0.1%	0.2
6	0.0%	0.0
7	0.1%	0.1
8	0.0%	0.0
9	0.0%	0.1
10	0.0%	0.0
11	0.0%	0.0
12	0.0%	0.0
13	0.0%	0.0
14	0.0%	0.0
15	0.0%	0.0
16	0.0%	0.0
17	0.0%	0.0
18	0.0%	0.0
19	0.0%	0.0
20	0.0%	0.0
21	0.0%	0.0
22	0.0%	0.0
23	0.0%	0.0
24	0.0%	0.0
25	0.0%	0.0
26	0.0%	0.0
27	0.0%	0.0
28	0.0%	0.0
29	0.0%	0.0
30	0.0%	0.0
31	0.0%	0.0
32	0.0%	0.0
33	0.0%	0.0
34	0.0%	0.0
35	0.0%	0.0
36	0.0%	0.0
37	0.0%	0.0
38	0.0%	0.0
39	0.0%	0.0

#### Current Spectrum

K	relat.	Armsk	mA/W
0	0.0%	0.000	0.00
1	100.0%	0.457	4.89
2	0.2%	0.001	0.01
3	6.3%	0.029	0.31
4	0.1%	0.000	0.00
5	6.6%	0.030	0.32
6	0.1%	0.000	0.00
7	4.1%	0.019	0.20
8	0.0%	0.000	0.00
9	2.0%	0.009	0.10
10	0.1%	0.000	0.00
11	0.8%	0.004	0.04
12	0.0%	0.000	0.00
13	0.4%	0.002	0.02
14	0.1%	0.000	0.00
15	0.1%	0.000	0.00
16	0.0%	0.000	0.00
17	0.2%	0.001	0.01
18	0.0%	0.000	0.00
19	0.3%	0.001	0.01
20	0.0%	0.000	0.00
21	0.2%	0.001	0.01
22	0.0%	0.000	0.00
23	0.3%	0.001	0.01
24	0.1%	0.000	0.00
25	0.2%	0.001	0.01
26	0.0%	0.000	0.00
27	0.2%	0.001	0.01
28	0.0%	0.000	0.00
29	0.0%	0.000	0.00
30	0.0%	0.000	0.00
31	0.0%	0.000	0.00
32	0.0%	0.000	0.00
33	0.0%	0.000	0.00
34	0.0%	0.000	0.00
35	0.1%	0.000	0.00
36	0.0%	0.000	0.00
37	0.1%	0.001	0.01
38	0.0%	0.000	0.00
39	0.1%	0.001	0.01

Test Instrument:Everfine HB-5A System

Manufacturer:Mosdesign

Type:dimmer

Temperature:25deg

Operator:

Number:1

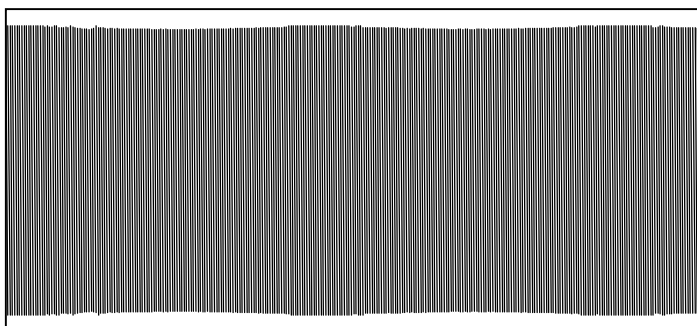
Humidity:75%

Inspector:

## Electronic Ballast Test Report

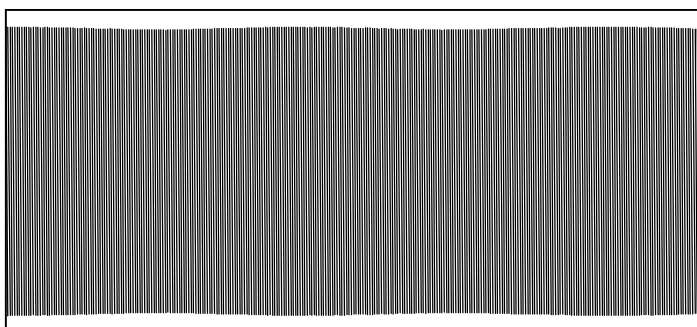
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### Steady State Characterictics



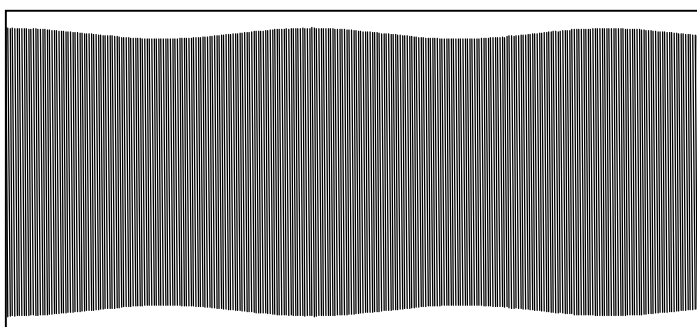
#### Lamp Voltage

Vlrms : 117.2(V)  
Vlp : 163.1(V)  
Vlcf : 1.39  
Vlhfrms: 118.6(V)  
Vlcfhf : 1.38



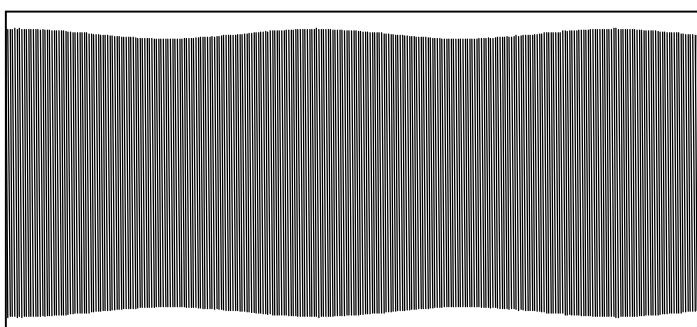
#### Filament Current

Afrms : 0.311(A)  
Afp : 0.547(A)  
Afcf : 1.76  
Afrmshf: 0.315(A)  
Afcfhf : 1.74



#### Lamp Current

Alrms : 0.737(A)  
Alp : 1.056(A)  
Alcf : 1.43  
Aldhc : 0.00 %  
Alrmshf: 0.766(A)  
Alcfhf : 1.38  
Pout : 86.1 (W)



#### Cathode Current

Akrms : 0.805(A)  
Akp : 1.121(A)  
Akcf : 1.39  
Akrmshf: 0.835(A)  
Akcfhf : 1.34  
Freq : 49.74(kHz)

---

Test Instrument:Everfine HB-5A System

Manufacturer:Mosdesign

Type:dimmer

Temperature:25deg

Operator:

Number:1

Humidity:75%

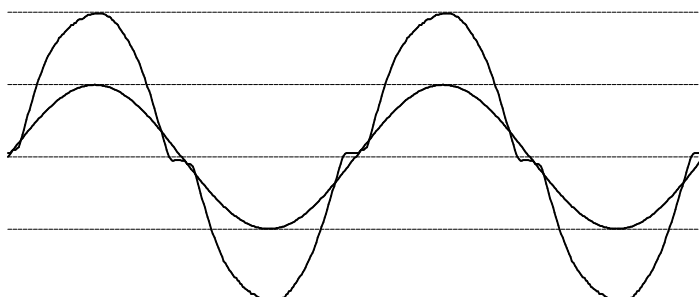
Inspector:

## Electronic Ballast Test Report

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### Input & Output Characteristics Test Report

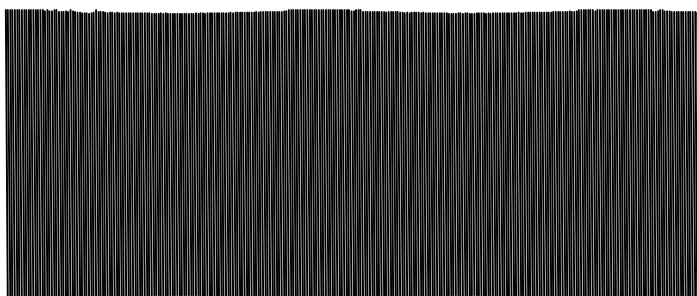
#### I. Input Characteristics



Vrms : 204.5(V)  
Vp : 289.4(V)  
Vthd : 0.2%(IEC)  
Arms : 0.459(A)  
Ap : 0.661(A)  
Athd : 10.3%(IEC)  
Power: 93.34(W)  
PF : 0.994  
Freq : 49.99(Hz)

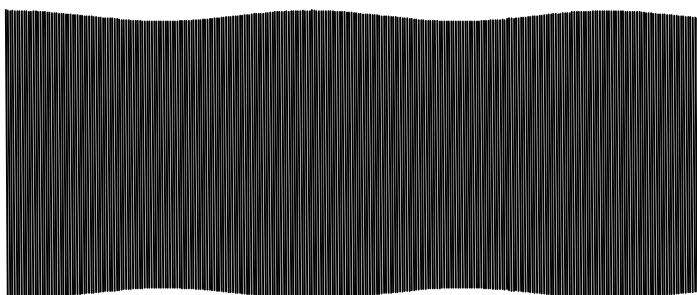
#### II. Output Characteristics

##### Lamp Voltage Wave



Vlrms: 117.2(V)  
Alrms: 0.737(A)  
Afrms: 0.311(A)  
Akrms: 0.805(A)  
Pout : 86.1 (W)

##### Lamp Current Wave



Freq : 49.740(kHz)  
Alcf : 1.43

---

Test Instrument: Everfine HB-5A System  
Manufacturer: Mosdesign  
Type: dimmer  
Temperature: 25deg  
Operator:

Number: 1  
Humidity: 75%  
Inspector: