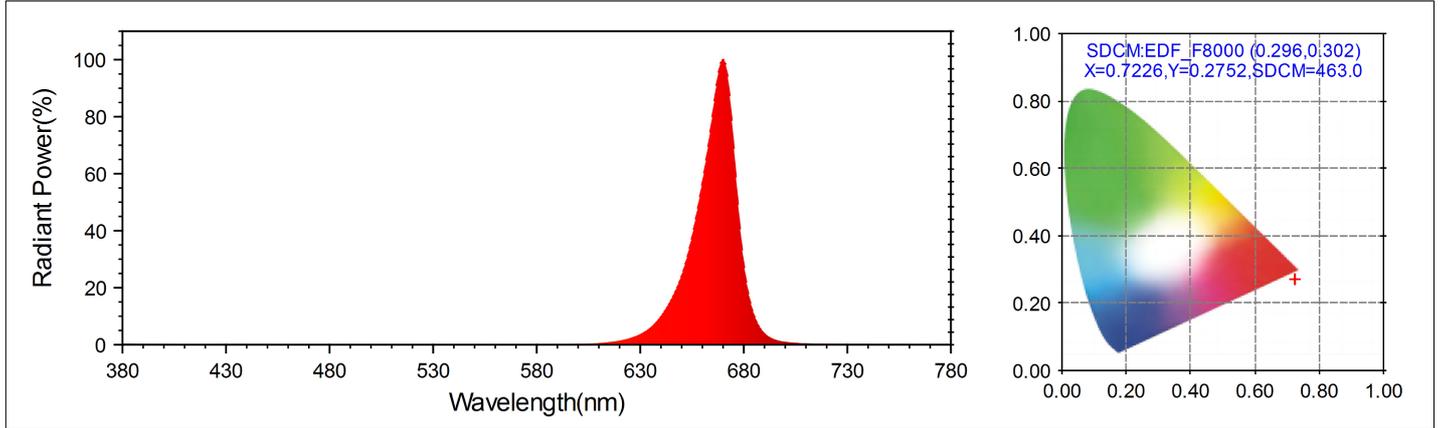


## 光谱分析测试



## Color parameters:

Color coordinates:  $x=0.7226$ ,  $y=0.2752/u' = 0.0000$ ,  $v' = 0.0000$ ;  
Color temperature: CCT=5552K (Duv=0.0000);  
Peak wavelength: WP=669.7nm; Main wavelength: WD=648.3nm; Half wave width: FWHM=18.6nm;  
Color ratio: R=99.3%, G=0.6%, B=0.0%; Color purity: Purity=99.4%;  
Color tolerance: SDCM=462.96;  
Color rendering index: Ra=27.0;  
R1 = 10.2 , R2 = 80.3 , R3 = 25.7 , R4 = 0.0 , R5 = 8.9  
R6 = 86.0 , R7 = 4.6 , R8 = 0.0 , R9 = 0.0 , R10= 81.5  
R11= 0.0 , R12= 85.1 , R13= 35.7 , R14= 54.8 , R15= 0.0  
TM30:Rf=0.0, Rg=0.0  
CSS:NTSC, 0.0%

## Luminous parameters:

Luminous flux  $\Phi = 1.108$  lm; Light efficiency: 28.1 lm/W;  
Radiation flux  $\Phi_e = 12.6$  mW  
Optoelectronic efficiency WPE=31.88%  
UVA=0.000 mW, UVB=0.000 mW, UVC=0.000 mW  
Illuminance Lx=0.0000 LUX

## Plant lamp parameters:

Photosynthetic radiation parameters (400~700nm):  
Photosynthetic quantum flux PPF: 1.1107  $\mu\text{mol/s}$   
Photosynthetically active radiation flux PAR: 0.0002 MW  
Photosynthetic photon flux efficiency EFF: 281.5495  $\mu\text{mol/s/w}$

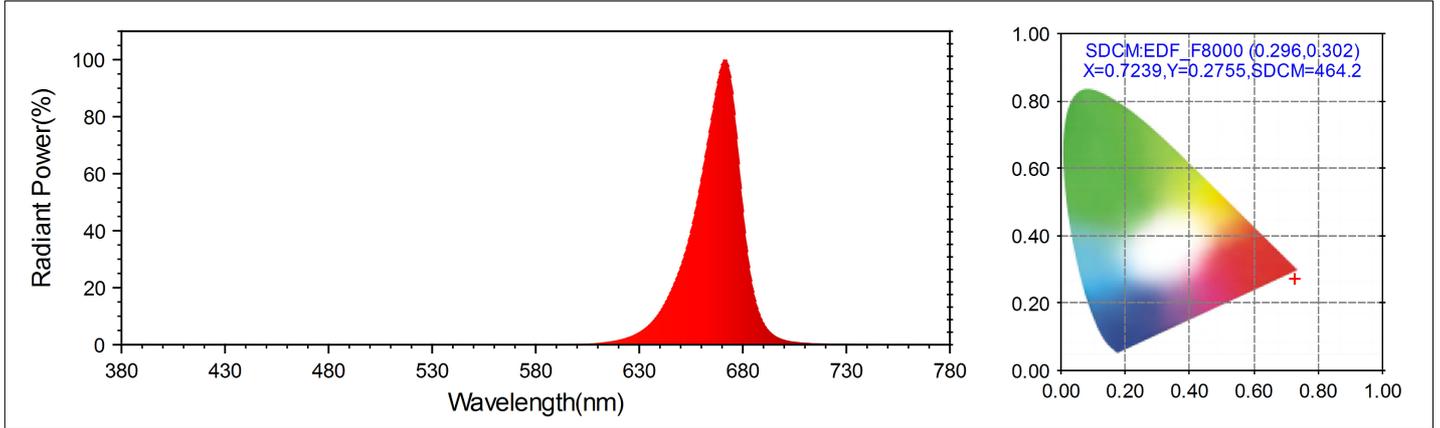
## Electrical parameters:

Forward voltage: VF= 1.9724 V; Forward current: IF= 20.0000 mA  
Power: P=0.0394 W; Power factor PF=1.00  
Instrument status:  
Integral time T=22.76 ms; Ip=41821 (63.81%)

Product Model:  
Tested by:  
Temperature:  
Manufacturer:  
Remarks:

Product Number: 251021172244  
Test Date: 2025-10-21 17:22:50  
Humidity:  
Organization:

## 光谱分析测试



## Color parameters:

Color coordinates:  $x=0.7239$ ,  $y=0.2755/u'=0.0000$ ,  $v'=0.0000$ ;  
Color temperature: CCT=5545K (Duv=0.0000);  
Peak wavelength: WP=671.1nm; Main wavelength: WD=647.6nm; Half wave width: FWHM=21.6nm;  
Color ratio: R=99.7%, G=0.2%, B=0.0%; Color purity: Purity=99.8%;  
Color tolerance: SDCM=464.23;  
Color rendering index: Ra=21.8;  
R1 = 0.7 , R2 = 76.9 , R3 = 17.3 , R4 = 0.0 , R5 = 0.0  
R6 = 79.1 , R7 = 0.0 , R8 = 0.0 , R9 = 0.0 , R10= 75.8  
R11= 0.0 , R12= 90.7 , R13= 27.8 , R14= 48.9 , R15= 0.0  
TM30:Rf=0.0, Rg=0.0  
CSS:NTSC, 0.0%

## Luminous parameters:

Luminous flux  $\Phi=3.340$  lm; Light efficiency:23.8 lm/W;  
Radiation flux  $\Phi_e=38.5$  MW  
Optoelectronic efficiency WPE=27.40%  
UVA=0.000 mw, UVB=0.000 mw, UVC=0.000 mw  
Illuminance Lx=0.0000 LUX

## Plant lamp parameters:

Photosynthetic radiation parameters (400~700nm):  
Photosynthetic quantum flux PPF:3.4214  $\mu\text{mol/s}$   
Photosynthetically active radiation flux PAR:0.0000 MW  
Photosynthetic photon flux efficiency EFF:243.5515  $\mu\text{mol/s/w}$

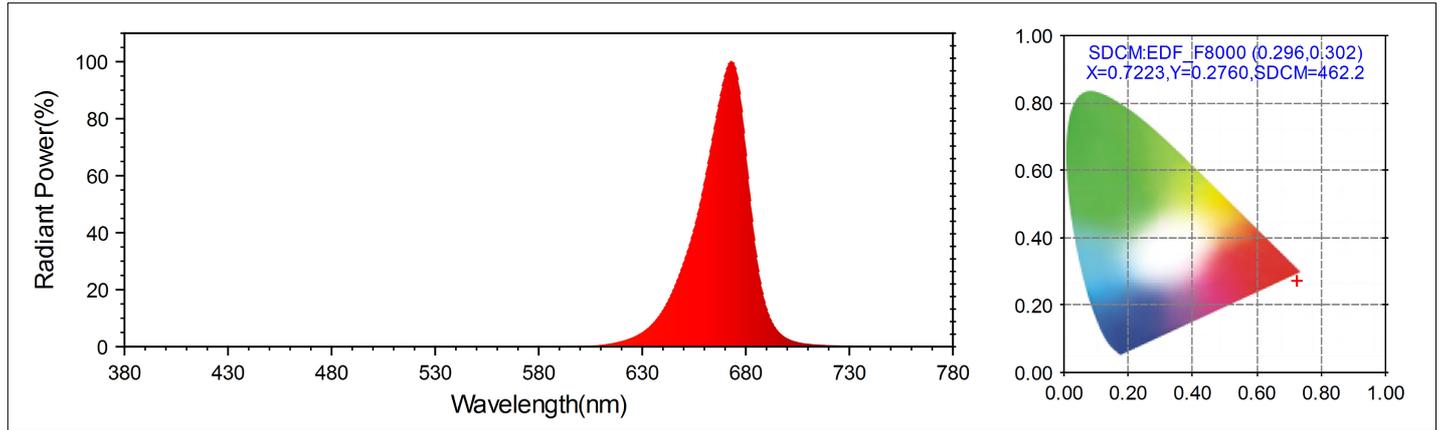
## Electrical parameters:

Forward voltage: VF= 2.3413 V; Forward current: IF= 60.0000 mA  
Power: P=0.1405 W; Power factor PF=1.00  
Instrument status:  
Integral time T=9.62 ms; Ip=46995(71.71%)

Product Model:  
Tested by:  
Temperature:  
Manufacturer:  
Remarks:

Product Number:251021172318  
Test Date:2025-10-21 17:23:24  
Humidity:  
Organization:

## 光谱分析测试



## Color parameters:

Color coordinates:  $x=0.7223$ ,  $y=0.2760/u' = 0.0000$ ,  $v' = 0.0000$ ;  
Color temperature: CCT=5620K (Duv=0.0000);  
Peak wavelength: WP=672.6nm; Main wavelength: WD=647.0nm; Half wave width: FWHM=24.1nm;  
Color ratio: R=99.4%, G=0.6%, B=0.0%; Color purity: Purity=99.5%;  
Color tolerance: SDCM=462.15;  
Color rendering index: Ra=25.8;  
R1 = 11.6 , R2 = 82.2 , R3 = 21.4 , R4 = 0.0 , R5 = 2.5  
R6 = 80.3 , R7 = 8.7 , R8 = 0.0 , R9 = 0.0 , R10= 83.9  
R11= 0.0 , R12= 91.6 , R13= 38.1 , R14= 51.4 , R15= 0.0  
TM30:Rf=0.0, Rg=0.0  
CSS:NTSC, 0.0%

## Luminous parameters:

Luminous flux  $\Phi = 5.210$  lm; Light efficiency: 20.0 lm/W;  
Radiation flux  $\Phi_e = 63.2$  mW  
Optoelectronic efficiency WPE=24.21%  
UVA=0.000 mw, UVB=0.000 mw, UVC=0.000 mw  
Illuminance Lx=0.0000 LUX

## Plant lamp parameters:

Photosynthetic radiation parameters (400~700nm):  
Photosynthetic quantum flux PPF: 5.6110  $\mu\text{mol/s}$   
Photosynthetically active radiation flux PAR: 0.0001 MW  
Photosynthetic photon flux efficiency EFF: 215.0284  $\mu\text{mol/s/w}$

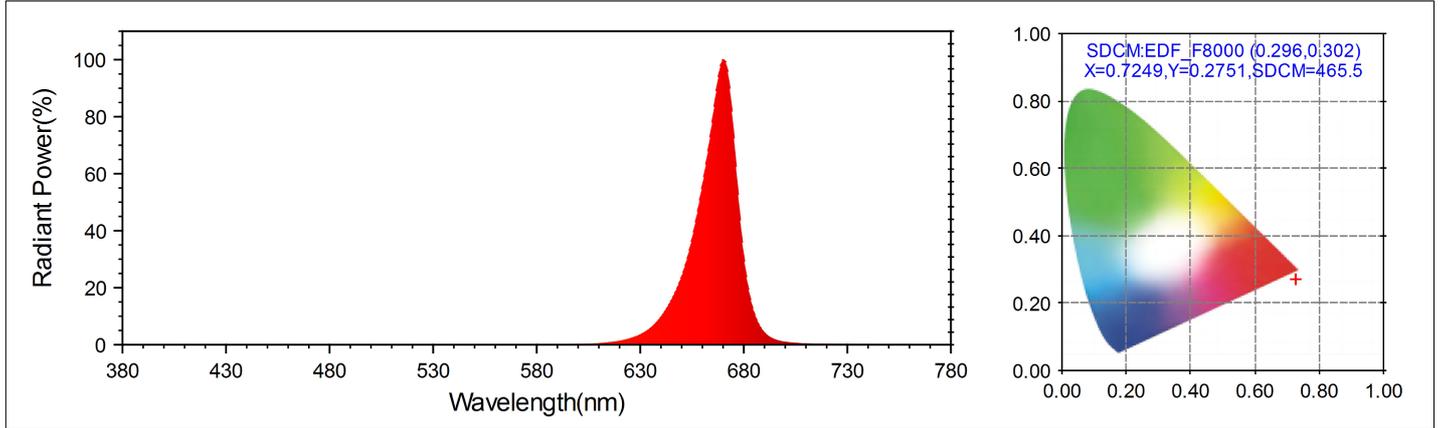
## Electrical parameters:

Forward voltage: VF= 2.6094 V; Forward current: IF=100.0000 mA  
Power: P=0.2609 W; Power factor PF=1.00  
Instrument status:  
Integral time T=6.27 ms; Ip=45244 (69.04%)

Product Model:  
Tested by:  
Temperature:  
Manufacturer:  
Remarks:

Product Number: 251021172330  
Test Date: 2025-10-21 17:23:34  
Humidity:  
Organization:

## 光谱分析测试



### Color parameters:

Color coordinates:  $x=0.7249$ ,  $y=0.2751/u' = 0.0000$ ,  $v' = 0.0000$ ;  
 Color temperature: CCT=5494K (Duv=0.0000);  
 Peak wavelength: WP=670.1nm; Main wavelength: WD=648.0nm; Half wave width: FWHM=18.7nm;  
 Color ratio: R=99.8%, G=0.2%, B=0.0%; Color purity: Purity=100.0%;  
 Color tolerance: SDCM=465.45;  
 Color rendering index: Ra=21.1;  
 R1 = 0.0 , R2 = 76.3 , R3 = 13.9 , R4 = 0.0 , R5 = 0.0  
 R6 = 78.3 , R7 = 0.0 , R8 = 0.0 , R9 = 0.0 , R10= 74.0  
 R11= 0.0 , R12= 0.0 , R13= 25.1 , R14= 47.8 , R15= 0.0  
 TM30:Rf=0.0, Rg=0.0  
 CSS:NTSC, 0.0%

### Luminous parameters:

Luminous flux  $\Phi = 1.088$  lm; Light efficiency: 27.9 lm/W;  
 Radiation flux  $\Phi_e = 12.4$  mW  
 Optoelectronic efficiency WPE=31.83%  
 UVA=0.000 mw, UVB=0.000 mw, UVC=0.000 mw  
 Illuminance Lx=0.0000 LUX

### Plant lamp parameters:

Photosynthetic radiation parameters (400~700nm):  
 Photosynthetic quantum flux PPF: 1.1023  $\mu\text{mol/s}$   
 Photosynthetically active radiation flux PAR: 0.0000 MW  
 Photosynthetic photon flux efficiency EFF: 282.7790  $\mu\text{mol/s/w}$

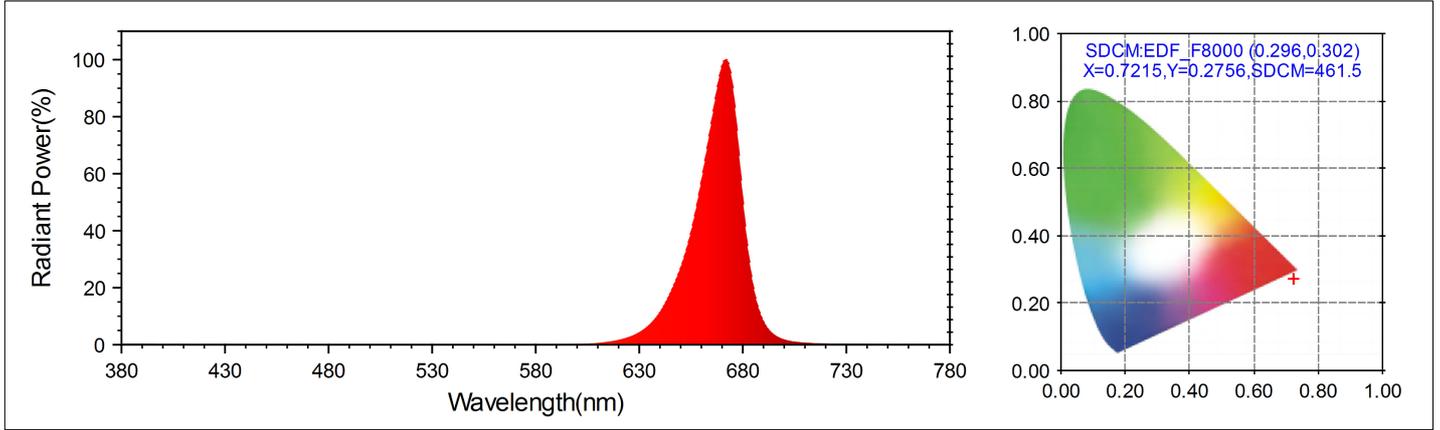
### Electrical parameters:

Forward voltage: VF= 1.9491 V; Forward current: IF= 20.0000 mA  
 Power: P=0.0390 W; Power factor PF=1.00  
 Instrument status:  
 Integral time T=20.75 ms; Ip=37955 (57.91%)

Product Model:  
 Tested by:  
 Temperature:  
 Manufacturer:  
 Remarks:

Product Number: 251021172405  
 Test Date: 2025-10-21 17:24:10  
 Humidity:  
 Organization:

## 光谱分析测试



### Color parameters:

Color coordinates:  $x=0.7215$ ,  $y=0.2756/u' = 0.0000$ ,  $v' = 0.0000$ ;  
 Color temperature: CCT=5605K (Duv=0.0000);  
 Peak wavelength: WP=671.4nm; Main wavelength: WD=648.0nm; Half wave width: FWHM=21.7nm;  
 Color ratio: R=99.1%, G=0.8%, B=0.1%; Color purity: Purity=99.1%;  
 Color tolerance: SDCM=461.52;  
 Color rendering index: Ra=29.4;  
 R1 = 16.4 , R2 = 83.7 , R3 = 25.8 , R4 = 0.0 , R5 = 13.1  
 R6 = 85.6 , R7 = 10.6 , R8 = 0.0 , R9 = 0.0 , R10= 87.2  
 R11= 4.0 , R12= 81.7 , R13= 41.9 , R14= 54.5 , R15= 0.0  
 TM30:Rf=0.0, Rg=0.0  
 CSS:NTSC, 0.0%

### Luminous parameters:

Luminous flux  $\Phi = 3.273$  lm; Light efficiency: 23.7 lm/W;  
 Radiation flux  $\Phi_e = 38.3$  mW  
 Optoelectronic efficiency WPE=27.78%  
 UVA=0.000 mW, UVB=0.000 mW, UVC=0.000 mW  
 Illuminance Lx=0.0000 LUX

### Plant lamp parameters:

Photosynthetic radiation parameters (400~700nm):  
 Photosynthetic quantum flux PPF: 3.3886  $\mu\text{mol/s}$   
 Photosynthetically active radiation flux PAR: 0.0002 MW  
 Photosynthetic photon flux efficiency EFF: 245.5330  $\mu\text{mol/s/w}$

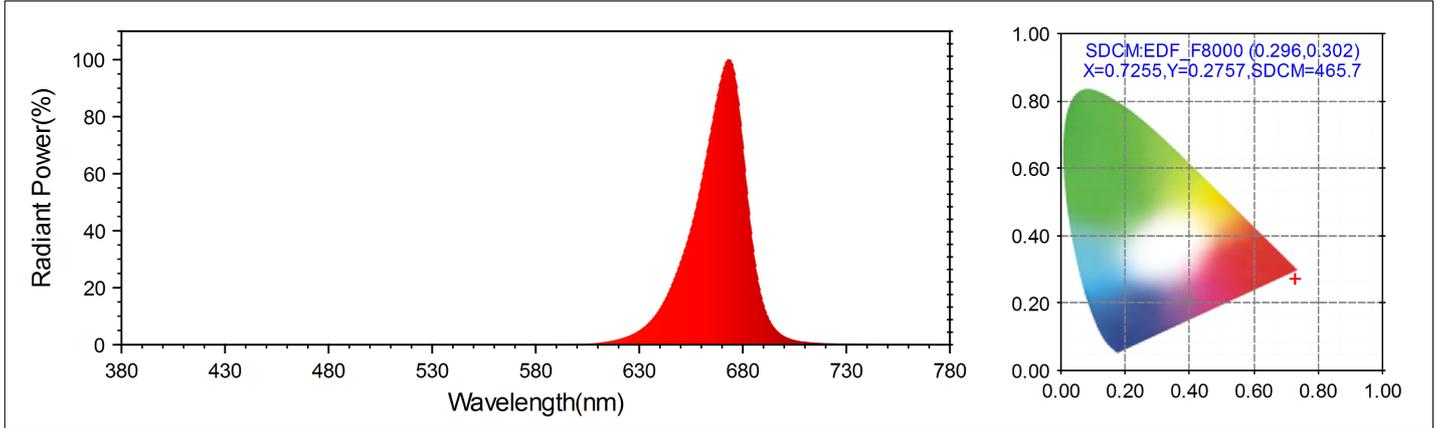
### Electrical parameters:

Forward voltage: VF= 2.3002 V; Forward current: IF= 60.0000 mA  
 Power: P=0.1380 W; Power factor PF=1.00  
 Instrument status:  
 Integral time T=9.19 ms; Ip=44361 (67.69%)

Product Model:  
 Tested by:  
 Temperature:  
 Manufacturer:  
 Remarks:

Product Number: 251021172416  
 Test Date: 2025-10-21 17:24:21  
 Humidity:  
 Organization:

## 光谱分析测试



## Color parameters:

Color coordinates:  $x=0.7255$ ,  $y=0.2757/u' = 0.0000$ ,  $v' = 0.0000$ ;  
Color temperature: CCT=5538K (Duv=0.0000);  
Peak wavelength: WP=672.9nm; Main wavelength: WD=719.5nm; Half wave width: FWHM=24.3nm;  
Color ratio: R=100.1%, G=-0.1%, B=-0.0%; Color purity: Purity=97.7%;  
Color tolerance: SDCM=465.69;  
Color rendering index: Ra=19.4;  
R1 = 0.0 , R2 = 74.6 , R3 = 9.4 , R4 = 0.0 , R5 = 0.0  
R6 = 71.3 , R7 = 0.0 , R8 = 0.0 , R9 = 0.0 , R10= 71.3  
R11= 0.0 , R12= 76.4 , R13= 21.8 , R14= 43.5 , R15= 0.0  
TM30:Rf=0.0, Rg=0.0  
CSS:NTSC, 0.0%

## Luminous parameters:

Luminous flux  $\Phi = 5.122$  lm; Light efficiency: 20.0 lm/W;  
Radiation flux  $\Phi_e = 61.9$  mW  
Optoelectronic efficiency WPE=24.24%  
UVA=0.000 mW, UVB=0.000 mW, UVC=0.000 mW  
Illuminance Lx=0.0000 LUX

## Plant lamp parameters:

Photosynthetic radiation parameters (400~700nm):  
Photosynthetic quantum flux PPF: 5.5466  $\mu\text{mol/s}$   
Photosynthetically active radiation flux PAR: 0.0000 mW  
Photosynthetic photon flux efficiency EFF: 217.0673  $\mu\text{mol/s/w}$

## Electrical parameters:

Forward voltage: VF= 2.5553 V; Forward current: IF=100.0000 mA  
Power: P=0.2555 W; Power factor PF=1.00  
Instrument status:  
Integral time T=6.13 ms; Ip=43825 (66.87%)

Product Model:  
Tested by:  
Temperature:  
Manufacturer:  
Remarks:

Product Number: 251021172429  
Test Date: 2025-10-21 17:24:33  
Humidity:  
Organization: