



**China Queendom Group Technology Co., Ltd.**  
**Agricultural lighting manual version**



## Catalog

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Queendom technology is a professional enterprise in the field of agricultural lighting in China, which provides professional agricultural lighting products. In order to build the industrial infrastructure of agriculture, animal husbandry, breeding, breeding and cold chain, Queendom technology provides services from design, manufacturing and installation. At the same time, it provides one-stop service for the overall lighting and agricultural factory system control, mainly for agricultural lighting, facility design, lighting control, light control, led system, intelligent dimming controller, customized installation and management of agricultural factory lighting. In order to help rural modernization, agricultural development, energy conservation and emission reduction, respond to the industrialization of agricultural infrastructure, and contribute to the reform of agricultural lighting.

Agricultural lighting mainly applies animal husbandry lighting, planting lighting, farming lighting, farm lighting, products mainly for three lights, LED waterproof lamp, waterproof lamp, temperature and warmth lamp, plant growth lights, mosquito repelling category layout.

Founded in 2007, the company is a technology private enterprise integrating R & D, production, sales and service. It mainly researches and develops, produces and sells intelligent lighting, agricultural lighting, semiconductor equipment, digital electronics and other products. Its core testing equipment and technology are quoted from Germany. Products are exported to Europe, America, Africa, Southeast Asia and all over the country.



Intelligent lighting and light control are the inevitable trend of the development of modern equipment agricultural technology. Led agricultural lighting may be the new generation of the main core light source of modern agriculture. Agriculture is the foundation of the national economy. With the growth of population, the improvement of consumption demand and quality, the agricultural resources are relatively limited, and the environmental pollution is constantly changing. It is an effective supply of food security, food safety and agricultural products. Agricultural lighting is an indispensable pillar industry of modern agriculture,

**Customized growth formula for agricultural growers**

This is where the future of agriculture lies. Optimize your planting system with led to achieve sustainable crop planting throughout the year. Customized light formula means faster growth, higher yield and better quality.

For animal husbandry energy saving, safe, modern agricultural lighting to develop more intelligent system security In the field of animal husbandry development, lighting technology is used in animal husbandry, planting and so on. Using our practical new LED agricultural lighting technology, we can customize the scientific solutions for you. It is a priority brand enterprise in the field of agricultural lighting, providing professional agricultural lighting information, building agricultural lighting, animal husbandry lamp, led plant lighting, breeding lighting and agricultural led systematic lighting technology for led to help agricultural development.



**Typical parameters of agricultural lighting :**

80 CRI @ 5000K CCT						
FIXTURE LENGTH	OUTPUT LUMENS	TYPICAL DELIVERED	TYPICAL 120-277	POWER 120-277	TYPICAL LPW	MAX AMBIENT LUMENS TEMP.
2 ft	700	1,200	7	10	588	45°C
4 ft	900	1,300	9	12	893	
4 ft	1,100	1,400	12	13	1198	
4 ft	1,400	1,600	14	16	1198	
4 ft	1,700	1,900	16	18	1198	
4 ft	1,900	2,100	19	22	1198	

CRI	CCT	T OUTPUT
80	5000K	100%
	4000K	98%
	3500K	97%
	3000K	93%
90	5000K	89%
	4000K	85%
	3500K	83%
	3000K	81%

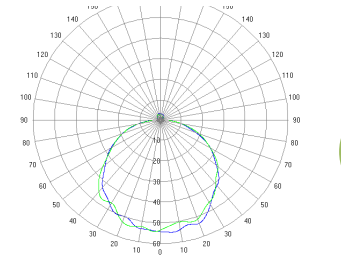
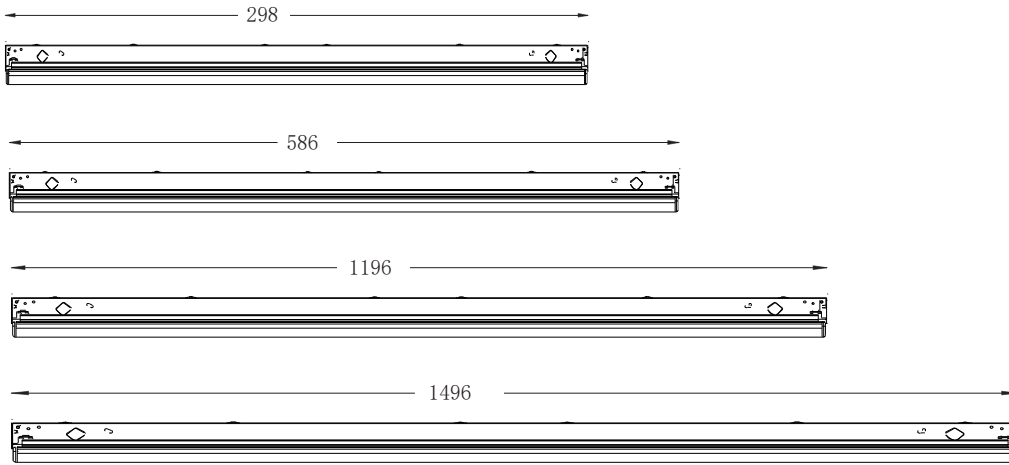
The waterproof lamp color temperature modification kit for lighting conversion can provide 80 + CRI special light with high lumen, L70 > 50000h and 110 lumen / watt at the same time. Retrofit kit provides 4000K, 5000K DLC color temperature, using UL / cul external power supply

## Product information - agricultural lighting

T8 all plastic waterproof tube [IP65] -G13

product size

L1: 586mm、1196mm、1496mm L2: 605mm、1215mm、1515mm



4



Select your Color Temperature and CRI



1800K 2200K 2700K 3000K 4000K 6500K

Model Description-Built in heat dissipation aluminum

MODEL	T8F-7W- 60CM-XX	T8F-15W-90CM XX	T8F-18W- 120CM XX	T8F-22W- 150CM-XX
Efficacy	100LPW	100LPW	100LPW	100LPW
Delivered Light Output	700-1000 Lumens	1500-1800 Lumens	1600-1900 Lumens	2000-2300 Lumens
Input Power	7-9Watts	15Watts	18Watts	22Watts
CRI	Ra>70 ,R9>15	Ra>70 ,R9>15	Ra>70 ,R9>15	Ra>70 ,R9>15
CCT	3000K 4000k 5000k	3000K 4000k 5000k	3000K 4000k 5000k	3000K 4000k 5000k
Input Voltage	85V-275V AC	85V-275V AC	85V-275V AC	85V-275V AC
Input current	0.1A	0.16A	0.16A	0.25A
THD	<20%(at 277V)	<20%(at 277V)	<20%(at 277V)	<20%(at 277V)
PF	>0.9(at 277V)	>0.9(at 277V)	>0.9(at 277V)	>0.9(at 277V)
Standard Warranty	2-5 Years	2-5 Years	2-5 Years	2-5 Years
Mounting	G13	G13	G13	G13
Dimensions	640*210*180	1240*205*215	1240*205*215"	1240*205*215
Waterproof grade	IP65	IP65	IP65	IP65
Weight	0.15kg	0.25kg	0.25kg	0.26kg

### Product parameter:

Light Output Range: 700 – 3,000 lumens

CRI: 80 CRI Standard (90CRI Refer to factory for lead- time) CCT: 3000K, 3500K, 4000K, 5000K

Distributions: 300-320° diffused lens

Input Voltage: 85V-277V

Efficiency: Up to 160 LPW

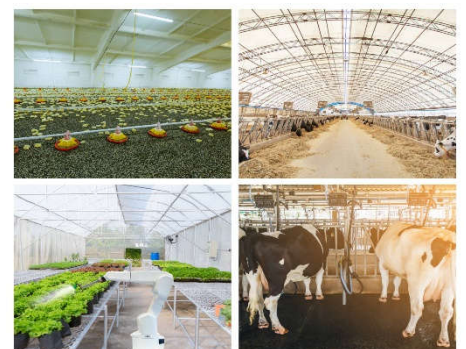
Fixture Rated: L70 @ 100,000 hours minimum @ 45°C

Limited Warranty: 2-5 Years Temperature Rating: -30°C to +45°C (-22°F to 113° F) Controls & Sensors:

0-10V standard, Motion & daylight sensor options. Wireless ZigBee Daintree compliant options

Application: mainly used in chicken farm, pig house, chicken house, poultry farm, etc. Plant, plant, fish tank, fresh food, beverage, cold storage room, freezer, or indoor and outdoor wet area, etc

### Application scenario case

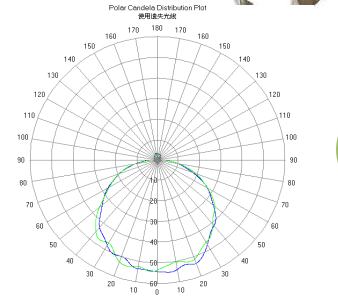
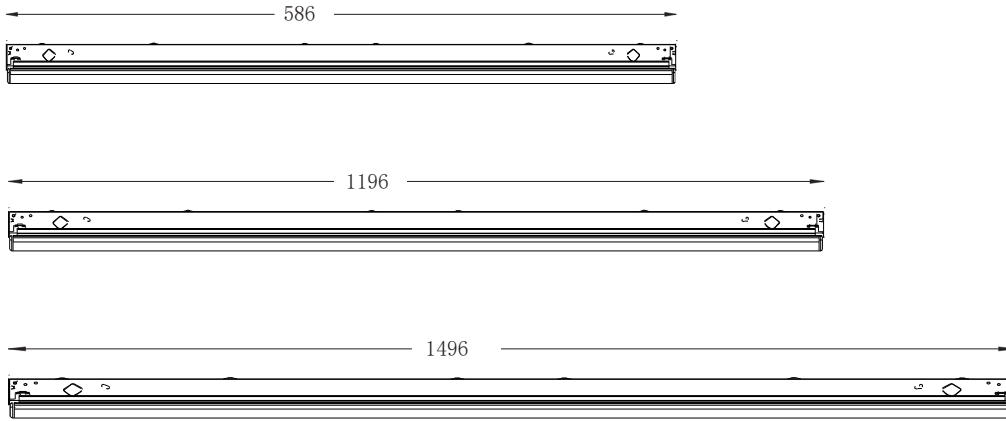


## Product information - agricultural lighting

T8 all plastic waterproof tube [IP65]

product size

L1: 586mm、1196mm、1496mm L2: 605mm、1215mm、1515mm



5



Select your Color Temperature and CRI



1800K 2200K 2700K 3000K 4000K 6500K

Model Description-Built in heat dissipation aluminum

MODEL	T8F-7W- XX	T8F-15W- XX	T8F-18W- XX	T8F-22W- XX
Efficacy	100LPW	100LPW	100LPW	100LPW
Delivered Light Output	700-1000 Lumens	1500-1800 Lumens	1600-1900 Lumens	2000-2300 Lumens
Input Power	7-9Watts	15Watts	18Watts	22Watts
CRI	Ra>70 ,R9>15	Ra>70 ,R9>15	Ra>70 ,R9>15	Ra>70 ,R9>15
CCT	3000K 4000k 5000k	3000K 4000k 5000k	3000K 4000k 5000k	3000K 4000k 5000k
Input Voltage	85V-275V AC	85V-275V AC	85V-275V AC	85V-275V AC
Input current	0.1A	0.16A	0.16A	0.25A
THD	<20%(at 277V)	<20%(at 277V)	<20%(at 277V)	<20%(at 277V)
PF	>0.9(at 277V)	>0.9(at 277V)	>0.9(at 277V)	>0.9(at 277V)
Standard Warranty	2-5 Years	2-5 Years	2-5 Years	2-5 Years
Mounting	Buckle pq7	Buckle pq7	Buckle pq7	Buckle pq7
Dimensions	640*210*180	1240*205*215	1240*205*215"	1240*205*215
Waterproof grade	IP65	IP65	IP65	IP65
Weight	0.15kg	0.25kg	0.25kg	0.26kg

### Product parameter:

Light Output Range: 700 – 3,000 lumens

CRI: 80 CRI Standard (90CRI Refer to factory for lead- time) CCT: 3000K, 3500K, 4000K, 5000K

Distributions: 300-320° diffused lens

Input Voltage:85V-277V

Efficiency: Up to 160 LPW

Fixture Rated: L70 @ 100,000 hours minimum @ 45°C

Limited Warranty: 2-5 Years Temperature Rating: -30°C to +45°C (-22°F to 113° F) Controls & Sensors:

0-10V standard, Motion & daylight sensor options. Wireless ZigBee Daintree compliant options

Application: mainly used in chicken farm, pig house, chicken house, poultry farm, etc. Plant, plant, fish tank, fresh food, beverage, cold storage room, freezer, or indoor and outdoor wet area, etc

### Application scenario case

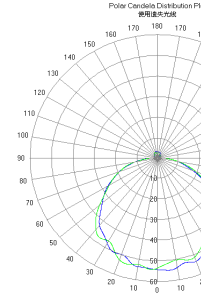
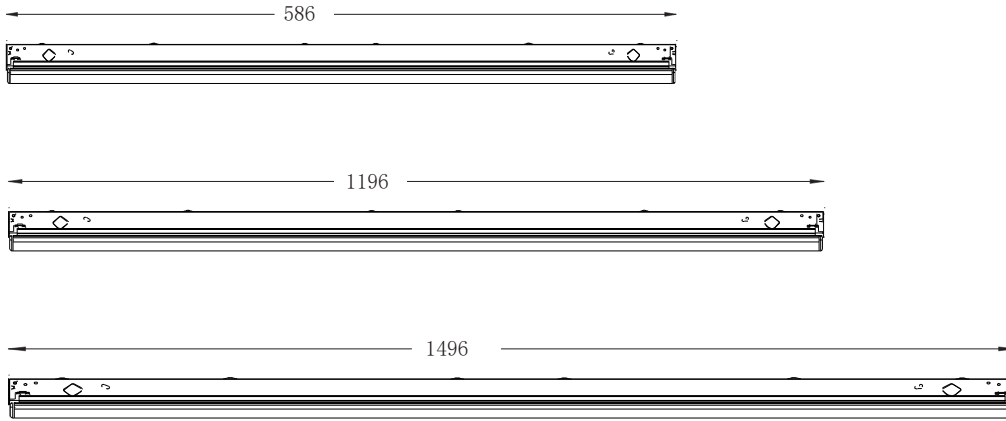


## Product information - agricultural lighting

T8 all plastic waterproof tube [IP65]- DC low voltage[DC12-36V]

product size

L1: 586mm、1196mm、1496mm L2: 605mm、1215mm、1515mm



6



Select your Color Temperature and CRI



1800K2200K2700K3000K4000K6500K

Model Description-Built in heat dissipation aluminum

MODEL	T8F-7W- XX	T8F-15W- XX	T8F-18W- XX	T8F-22W- XX
Efficacy	100LPW	100LPW	100LPW	100LPW
Delivered Light Output	700-1000 Lumens	1500-1800 Lumens	1600-1900 Lumens	2000-2300 Lumens
Input Power	7-9Watts	15Watts	18Watts	22Watts
CRI	Ra>70 ,R9>15	Ra>70 ,R9>15	Ra>70 ,R9>15	Ra>70 ,R9>15
CCT	3000K 4000k 5000k	3000K 4000k 5000k	3000K 4000k 5000k	3000K 4000k 5000k
Input Voltage	12-130V DC	12-130V DC	12-130 V DC	12-130 V DC
Input current	0.1A	0.16A	0.16A	0.25A
THD	<20%(at 277V)	<20%(at 277V)	<20%(at 277V)	<20%(at 277V)
PF	>0.9(at 277V)	>0.9(at 277V)	>0.9(at 277V)	>0.9(at 277V)
Standard Warranty	2-5 Years	2-5 Years	2-5 Years	2-5 Years
Mounting	Buckle pq7	Buckle pq7	Buckle pq7	Buckle pq7
Dimensions	640*210*180	1240*205*215	1240*205*215"	1240*205*215
Waterproof grade	IP65	IP65	IP65	IP65
Weight	0.15kg	0.25kg	0.25kg	0.26kg

### Product parameter:

Light Output Range: 700 – 3,000 lumens

CRI: 80 CRI Standard (90CRI Refer to factory for lead- time) CCT: 3000K, 3500K, 4000K, 5000K

Distributions: 200° diffused lens

Input Voltage: DC12-130V

Efficiency: Up to 160 LPW

Fixture Rated: L70 @ 100,000 hours minimum @ 45°C

Limited Warranty: 2-5 Years Temperature Rating: -30°C to +45°C (-22°F to 113° F) Controls & Sensors: 0-

10V standard, Motion & daylight sensor options. Wireless ZigBee Daintree compliant options

Application: mainly used in chicken farm, pig house, chicken house, poultry farm, etc. Plant, plant, fish

tank, fresh food, beverage, cold storage room, freezer, or indoor and outdoor wet area, etc

### Application scenario case

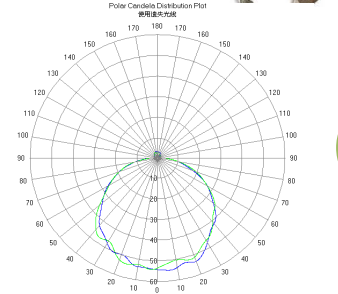
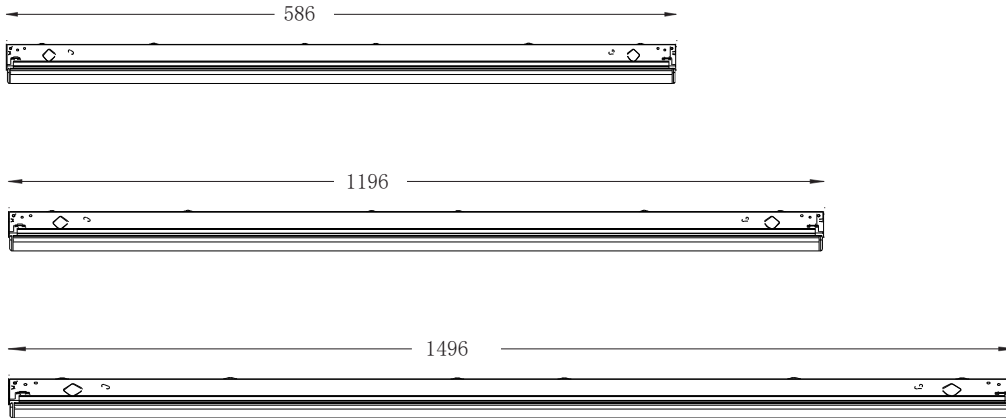


## Product information - agricultural lighting

### T8 all plastic waterproof tube [IP65]- Waterproof radar induction lamp

product size

L1: 586mm、1196mm、1496mm L2: 605mm、1215mm、1515mm



7

Select your Color Temperature and CRI



1800K 2200K 2700K 3000K 4000K 6500K

#### Model Description-Built in heat dissipation aluminum

MODEL	T8F-7W- XX	T8F-15W- XX	T8F-18W- XX	T8F-22W- XX
Efficacy	100LPW	100LPW	100LPW	100LPW
Delivered Light Output	700-1000 Lumens	1500-1800 Lumens	1600-1900 Lumens	2000-2300 Lumens
Input Power	7-9Watts	15Watts	18Watts	22Watts
CRI	Ra>70 ,R9>15	Ra>70 ,R9>15	Ra>70 ,R9>15	Ra>70 ,R9>15
CCT	3000K 4000k 5000k	3000K 4000k 5000k	3000K 4000k 5000k	3000K 4000k 5000k
Input Voltage	85-265 VAC	85-265 VAC	85-265 VAC	85-265 VAC
Input current	0.1A	0.16A	0.16A	0.25A
THD	<20%(at 277V)	<20%(at 277V)	<20%(at 277V)	<20%(at 277V)
PF	>0.9(at 277V)	>0.9(at 277V)	>0.9(at 277V)	>0.9(at 277V)
Standard Warranty	2-5 Years	2-5 Years	2-5 Years	2-5 Years
Mounting	Buckle pg7/G13	Buckle pg7/G13	Buckle pg7/G13	Buckle pg7/G13
Dimensions	740*210*180	1040*205*215	1240*205*215"	1540*205*215
Waterproof grade	IP65	IP65	IP65	IP65
Induction mode / time	Full bright to slightly bright / full off, 18-20 S			
Weight	0.15kg	0.25kg	0.25kg	0.26kg

#### Product parameter:

Light Output Range: 700 – 3,000 lumens

CRI: 80 CRI Standard (90CRI Refer to factory for lead- time) CCT: 3000K, 3500K, 4000K, 5000K

Distributions: 200° diffused lens ; Input Voltage: 85-265 VAC; Efficiency: Up to 160 LPW

Fixture Rated: L70 @ 100,000 hours minimum @ 45°C

Temperature Rating: -30°C to +45°C (-22°F to 113° F) Controls & Sensors: 0-10V standard, Motion & daylight sensor options. Wireless ZigBee Daintree compliant options

Application: mainly used in chicken farm, pig house, chicken house, poultry farm, etc. Plant, plant, fish tank, fresh food, beverage, cold storage room, freezer, or indoor and outdoor wet area, etc

#### Application scenario case

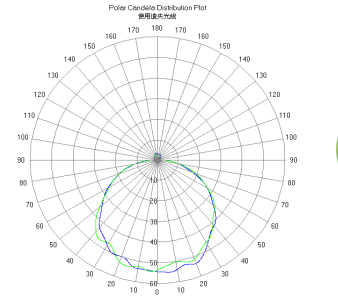
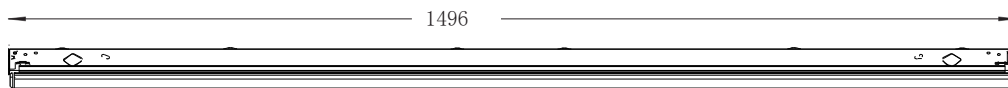
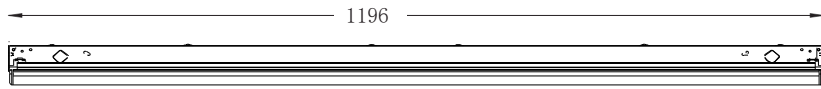
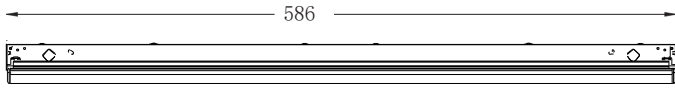


## Product information - agricultural lighting

### T8 all plastic waterproof tube [IP65]- Plant growth lamp

product size

L1: 586mm、1196mm、1496mm L2: 605mm、1215mm、1515mm



8



Select your Color Temperature and CRI



1800K 2200K 2700K 3000K 4000K 6500K

#### Model Description-Built in heat dissipation aluminum

MODEL	T8F-9W- 60cm	T8F-13W- 90cm	T8F-18W- 120cm	T8F-24W- 150cm
Efficacy	100LPW	100LPW	100LPW	100LPW
Delivered Light Output	300 Lumens	400 Lumens	500 Lumens	600 Lumens
Input Power	6Watts	7Watts	14Watts	18Watts
CRI				
CCT	620-625nm/450-455nm	620-625nm/450-455nm	620-625nm/450-455nm	620-625nm/450-455nm
Input Voltage	100-265 VAC	100-265 VAC	100-265 VAC	100-265 VAC
Input current	0.1A	0.16A	0.16A	0.25A
THD	<20%(at 277V)	<20%(at 277V)	<20%(at 277V)	<20%(at 277V)
PF	>0.9(at 277V)	>0.9(at 277V)	>0.9(at 277V)	>0.9(at 277V)
Standard Warranty	2Years	2Years	2Years	2Years
Mounting	Buckle pg7/G13	Buckle pg7/G13	Buckle pg7/G13	Buckle pg7/G13
Dimensions	640*210*180	1240*205*215	1240*205*215"	1240*205*215
Waterproof grade	IP65	IP65	IP65	IP65
Weight	0.15kg	0.25kg	0.25kg	0.26kg

#### Product parameter:

Distributions: 200° diffused lens ; Input Voltage: 85-265 VAC

Fixture Rated: L70 @ 100,000 hours minimum @ 45°C

Temperature Rating: -30°C to +45°C (-22°F to 113° F) Controls & Daintree compliant options

Heat dissipation: high performance aluminum substrate has large heat dissipation area.

Service life: more than 30000h. Functional products: Red promotes the reproduction of plant fruits and seeds, blue promotes the growth of plant stems and leaves. Selling points: energy saving, safety, super bright, high safety performance.

Application: mainly used in chicken farm, pig house, chicken house, poultry farm, etc.

Plant, plant, fish tank, fresh food, beverage, cold storage room, freezer, or indoor and outdoor wet area, etc

#### Application scenario case

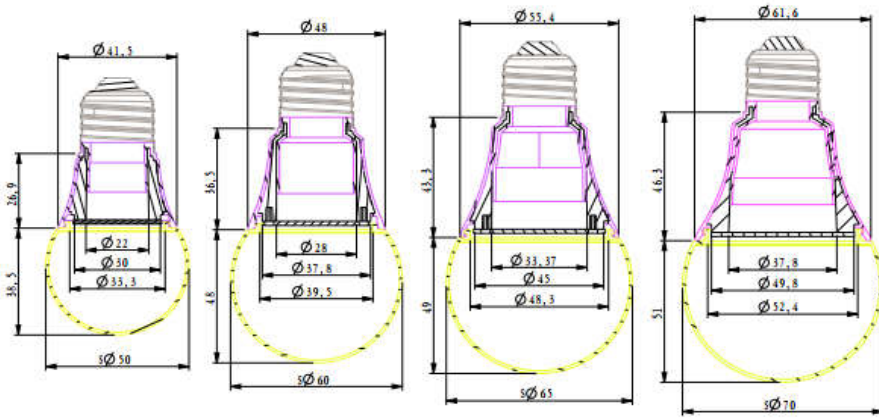




Product information - agricultural lighting

Waterproof bulb [IP65]-

product size



Select your Color Temperature and CRI



1800K 2200K 2700K 3000K 4000K 6500K

Model Description-Built in heat dissipation aluminum

MODEL	QP-5W- XX	QP-7W- XX	QP-9W- XX	QP-12W- XX
Efficacy	100LPW	100LPW	100LPW	100LPW
Delivered Light Output	400 -600Lumens	650-800 Lumens	800-1000 Lumens	1000-1300 Lumens
Input Power	5Watts	7Watts	9Watts	12Watts
CRI	Ra>70 ,R9>15	Ra>70 ,R9>15	Ra>70 ,R9>15	Ra>70 ,R9>15
CCT	3000K 4000k 5000k	3000K 4000k 5000k	3000K 4000k 5000k	3000K 4000k 5000k
Input Voltage	85-265 VAC	85-265 VAC	85-265 VAC	85-265 VAC
Input current				
THD				
PF	>0.9(at 277V)	>0.9(at 277V)	>0.9(at 277V)	>0.9(at 277V)
Standard Warranty	2Years	2Years	2Years	2Years
Mounting				
Dimensions				
Waterproof grade	IP65	IP65	IP65	IP65
Weight				

Product parameter:

Distributions: 200° diffused lens ; Input Voltage: 85-265 VAC

Fixture Rated: L70 @ 100,000 hours minimum @ 45°C

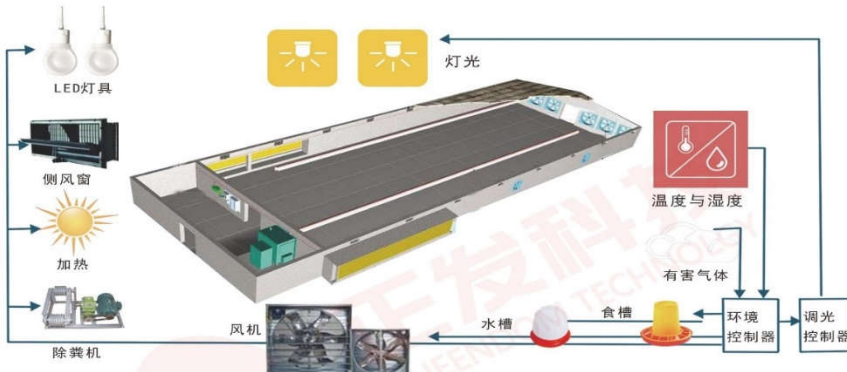
Temperature Rating: -30°C to +45°C (-22°F to 113° F) Controls & Daintree compliant options

Heat dissipation: high performance aluminum substrate has large heat dissipation area. Service life: more than 30000h. Functional products: Red promotes the reproduction of plant fruits and seeds, blue promotes the growth of plant stems and leaves. Selling points: energy saving, safety, super bright, high safety performance.

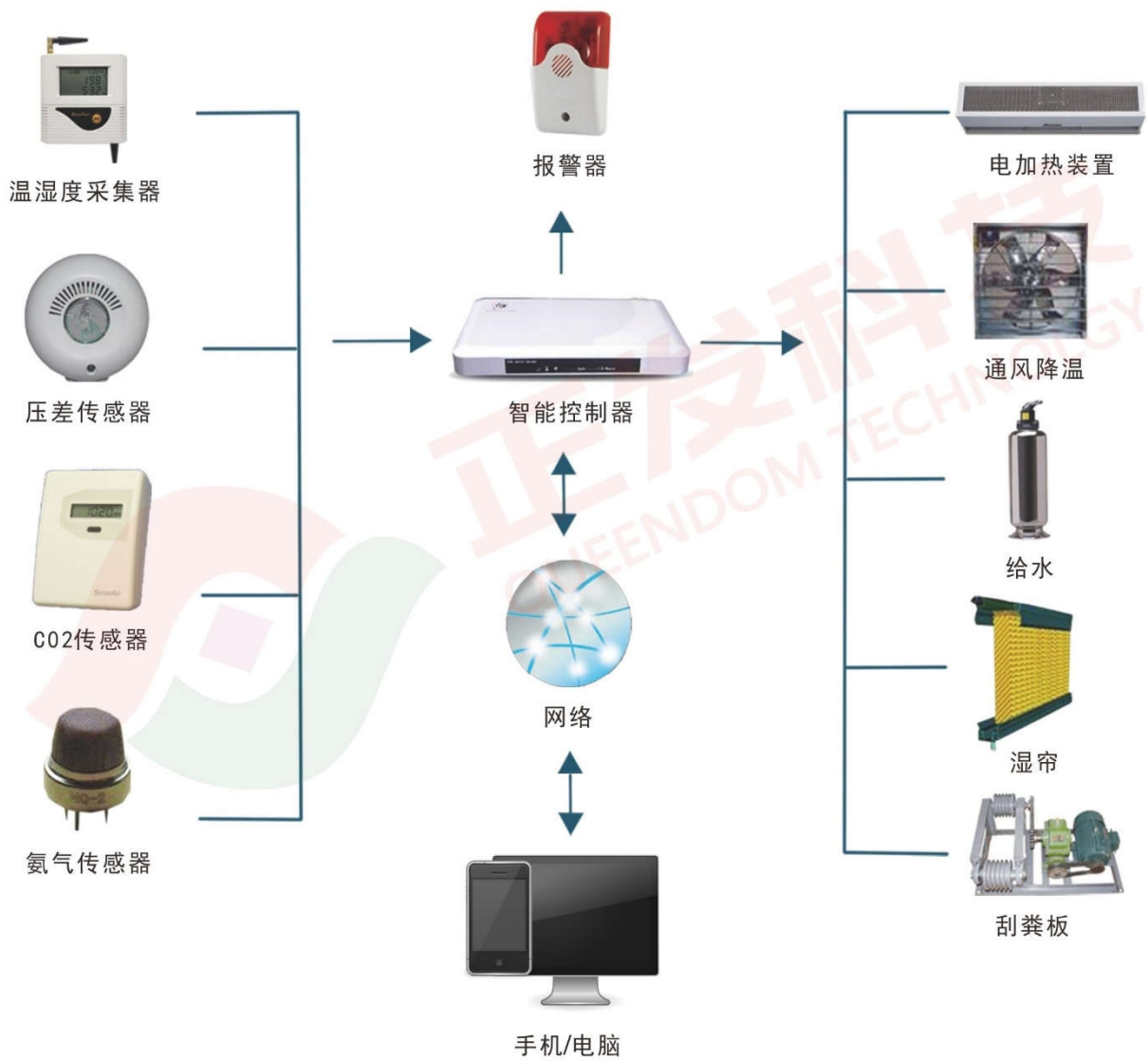
Application: mainly used in chicken farm, pig house, chicken house, poultry farm, etc. Plant, plant, fish tank, fresh food, beverage, cold storage room, freezer, or indoor and outdoor wet area, etc

Application scenario case





( 智能控制系统示意图 )



Two-in-one dimmer = manual dimmer + time controller  
 High efficiency 98%, dimmable range: 1%-100%  
 Dimming without stroboscopic support  
 0-10V signal connection and operation of other user equipment  
 Support system update 24 hours/days run in cycles  
 Support DIY (user-defined mode) lighting program setting  
 5 lighting program setting modes

Application scenarios:



In the process of agricultural lighting, animal husbandry lighting, planting and breeding lighting and poultry production, different light intensity is needed in different growth stages. The brightness adjustment of light can not only meet the light demand of poultry, save electric energy, but also avoid the repeated operation of replacing bulbs in different production stages, saving manpower and material costs. Dimming control system can achieve 0 ~ 100% stepless dimming, dimming step of 1%, providing more refined lighting requirements for livestock and poultry. The intelligent dimming controller and the environment control system can automatically adjust the brightness and switching time of lamps in poultry production cycle to meet the lighting needs of different agricultural breeding.

The newly developed intelligent dimming controller of the company combines the day age in the agricultural lighting cycle with the on-off time and brightness parameters, and can realize the timing on-off and automatic dimming control according to the day age. The on-off simulates sunrise and sunset, and can independently realize the full-automatic intelligent dimming control in the whole breeding cycle without the environmental control system, while the intelligent environmental control system can Automatic adjustment of environmental temperature, humidity, static pressure difference, carbon dioxide, ammonia and other indicators, to achieve comprehensive automatic control of the environment.

In the process of agricultural lighting, animal husbandry lighting, planting and breeding lighting and poultry production, different light intensity is needed in different growth stages. The brightness adjustment of light can not only meet the light demand of poultry, save electric energy, but also avoid the repeated operation of replacing bulbs in different production stages, saving manpower and material costs. Dimming control system can achieve 0 ~ 100% stepless dimming, dimming step of 1%, providing more refined lighting requirements for livestock and poultry.

The intelligent dimming controller and the environment control system can automatically adjust the brightness and switching time of lamps in poultry production cycle to meet the lighting needs of different agricultural breeding.



LED patent certificate 专利 (1)



LED patent certificate 专利 (2)



LED patent certificate 专利 (3)



PFOS 英文



PFOS 中文



RHS01F001615-华测报告



LED patent certificate 专利 (4)



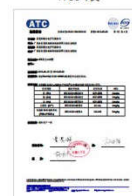
LED patent certificate 专利 (5)



LED patent certificate 专利 (6)



RoHS 化学六项 英文



RoHS 化学六项 中文



SVHC S3项 英文



LED patent certificate 专利 (7)



LED patent certificate 专利 (8)



LED patent certificate 专利 (9)



SVHC S3项 中文



汞含量 英文



汞含量 中文

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**QUEENDOM**

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