

Lighting for Broiler



Lighting effects on Broiler

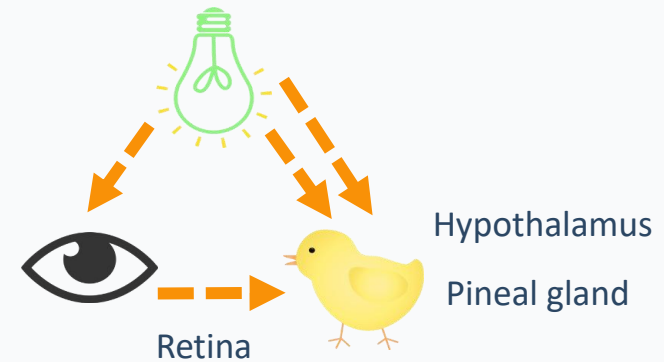
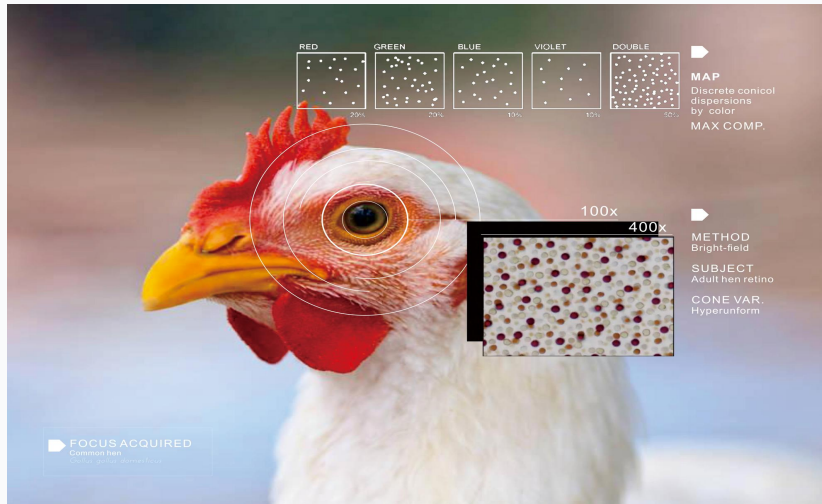
- Physiological and behavioural aspects
- Controls the activities of different hormones
- Affects growth maturation and development of organism.
- Physical activity affected by intensity, color and duration of light.

Lighting effects on Broiler

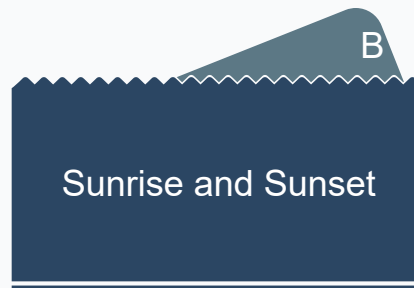
- Eye → Retina → Behavioral responses
- Skull → Biological responses
(Hypothalamus Pineal gland)



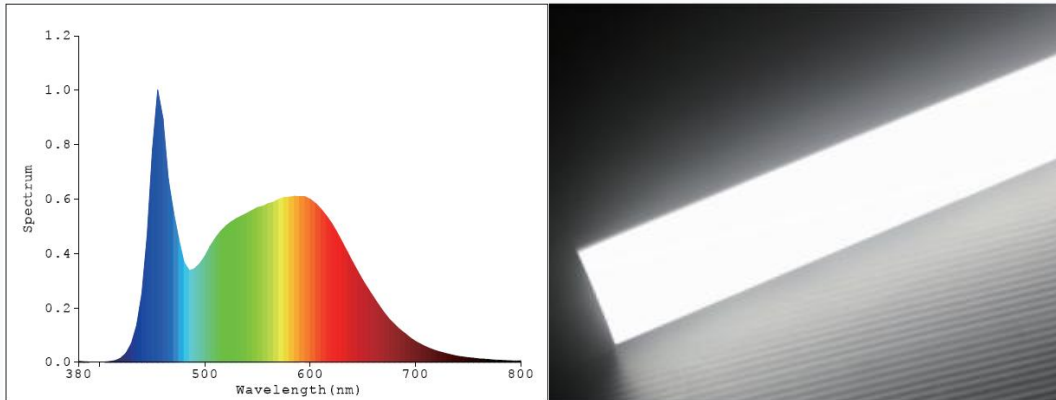
- Biorhythm
- Sexual development



How to choose the correct LED poultry?



Light Color Spectrum for Broiler



- **Blue color** : decreases movement → catching a chicken → make it not frightened → improve the quality of chicken
- **Red color**: increase food intake, reduces the feather pecking of chick
- **Green color** : increases growth rate at an early age by enhancing proliferation of skeletal muscle satellite cells.





Broiler House Lighting Design(Flooring house)

Using T12 LED Tube 220Vac

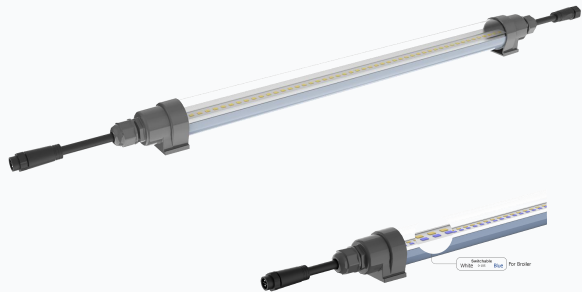
House Width	2.5-3m Height
< 10 m	2 rows
10 - 12 m	3 rows
14 - 16 m	4 rows
> 16 m	5 rows

Target avg 70-80 lux
Light distance in the same row around 4m



Broiler House Lighting Design(Flooring house)

Using T12 LED Tube 220Vac & 3000W Dimmer controller



Single color:
HT-T12AC25W12FD
T12 5000K 25W 1200mm LED tube

Two color:
HT-T12AC25W12FS
T12 5000K 25W+ Blue 25W 1200mm LED tube

- 💡 Digital dimmable LED poultry tube
- 💡 3000 lm light output at 25W
- 💡 Longer lifetime 50,000 hrs L90B50
- 💡 Mounting/installation on ceilings, sloping cables
- 💡 Single, two-coloured lighting
- 💡 IP67 grade
- 💡 Easy for installation plug & play
- 💡 Flicker free
- 💡 180-264Vac



Broiler House Lighting Design(Flooring house)

Using T12 LED Tube 220Vac & 3000W Dimmer controller



HT-DIM-030L
3000W Programmable Dimmer

- 💡 Digital dimmer controller
- 💡 3000W control capacity
- 💡 DIY lighting program, up to 24 models
- 💡 Touchable screen
- 💡 Manual/ auto control
- 💡 0-10V signal for external control
- 💡 Short circuit protection



Broiler House Lighting Design(Flooring house)

Using T12 LED Tube 220Vac & 3000W Dimmer controller





Broiler House Lighting Design(Flooring house)

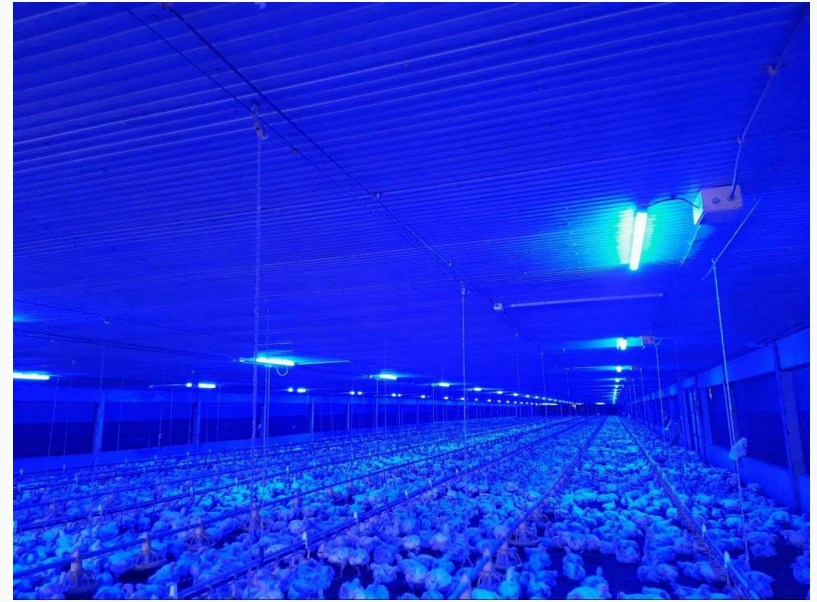
Using T12 LED Tube 220Vac & 3000W Dimmer controller



White



Blue



0-10V

AC Input

Junction Box





Broiler House Lighting Design(Flooring house)

Using 10W LED Bulb 220Vac

House Width	2.5-3m Height
< 10 m	3 row
10 - 12 m	4 rows
14 - 16 m	5 rows
> 16 m	6 rows

Target avg 70 lux

Light distance in the same row around 2.5m-3m



Broiler House Lighting Design(Flooring house)

Using 10W LED Bulb 220Vac



HT-QPF10WS
IP65 E27 5000K
LED Poultry Bulb

- 💡 Digital dimmable LED bulb
- 💡 1200 lm light output at 10W
- 💡 Longer lifetime 50,000 hrs L90B50
- 💡 Mounting/installation on ceilings, sloping cables
- 💡 Single-coloured lighting
- 💡 IP65 grade, with Hontech E27 socket cable can achieve IP67



Broiler House Lighting Design(Flooring house)

Using 10W LED Bulb 220Vac



**HT-QPF10WD
IP67 HT19 10W 5000K +10W Blue
LED Poultry Bulb**

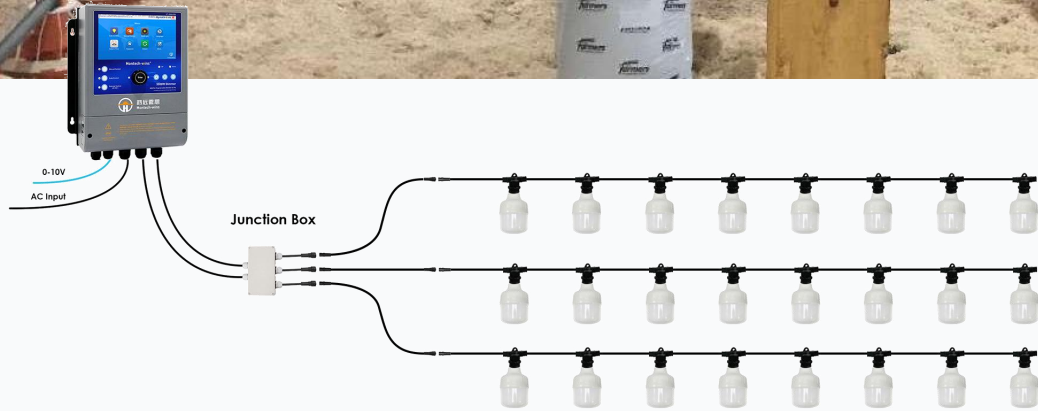
- 💡 Digital dimmable LED bulb
- 💡 1250 lm light output at 10W
- 💡 Longer lifetime 50,000 hrs L90B50
- 💡 Mounting/installation on ceilings, sloping cables
- 💡 Single & two-coloured lighting
- 💡 IP67 grade, should equip with Hontech HT9 socket cable





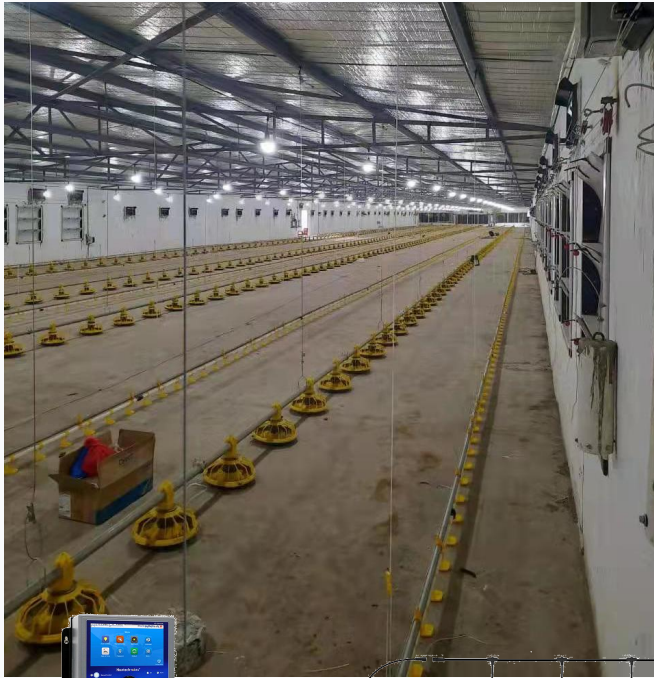
Broiler House Lighting Design(Flooring house)

Using 10W LED Bulb 220Vac



Broiler House Lighting Design(Flooring house)

Using 10W LED Bulb 220Vac



White
→
←
Blue

