

# Proposal for Broiler House

## LED Bulb Light



## 1. Poultry farm introduction


- Farm dimension: 150m x 16m
- Farm Type: Broiler house

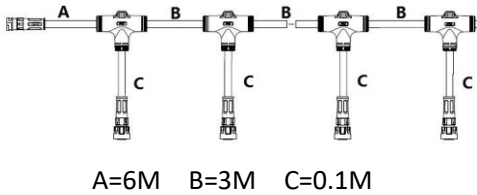
## 2. Suggested LED Poultry Light and Dimming Controller


- > IP67 DLP19 Dimmable Flicker Free 10W LED Bulb 220Vac in 5000K
- > DLUX Programmable Dimmer 3L 3000W


**A: Total quantity bulbs for each house: Bulb Distance 3m**

Total 196pcs(4row\*49pcs) LED bulbs in one house

Product picture	Model number	Details
	DLPQPF10WS/ DLP19 5000K	<ol style="list-style-type: none"> <li>1) Wattage: 10W</li> <li>2) Voltage : 180-260Vac Flicker free 0Hz</li> <li>2) Efficiency : 92%, PF : 0.96</li> <li>3) LED bulb, OD80mm</li> <li>4) IP Grade : IP67 for DLP19 connector.</li> <li>5) Dim : Dimming from 0-100%, lighting brightness from 1 to 100%</li> <li>6) Certificate : TUV, SAA, SASO, CE, ROHS</li> </ol>

Product picture/ Drawing	Model number	Base	Details
	DLPCA01	DLP19 connector	<ol style="list-style-type: none"> <li>1) Rubber cable Waterproof IP67</li> <li>2) Fire proof</li> <li>3) Base DLP19 , 16AWG</li> <li>4) Total 150m cable with 49pcs connector</li> </ol>

Product picture	Model Number	Wattage/Voltage	Details
	DLUX Programmable 3L Dimmer & Timer together	3000W 180-240Vac	<ol style="list-style-type: none"> <li>1) Dimming from 0-100%, lighting brightness from 1 to 100%</li> <li>2) Manual light on/off</li> <li>3) DIY lighting program,24 hours/days lighting program control</li> <li>4) Setting of days, groups, light on/off time, light intensity, manual/auto control</li> <li>5) With 0-10V signal</li> <li>6) 1 channel out</li> </ol>

Product Picture	Model Number	Details
	DLPCA03	<ol style="list-style-type: none"> <li>1) Extension Cable to connect the first Bulb to Dimmer</li> <li>2) 15m Extension cable 2*1.0mm2</li> <li>3) Rubber Cable in waterproof and fireproof</li> </ol>

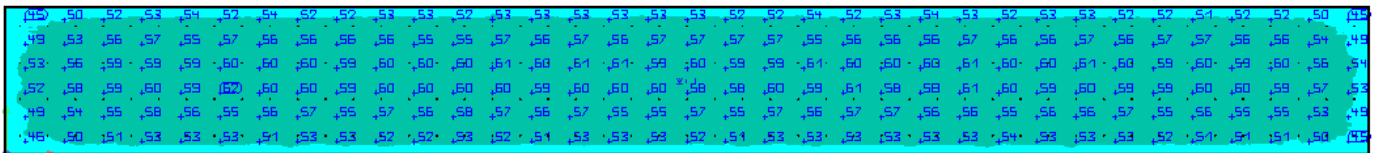
### 3. Lighting quantity for 1 broiler house

Products	Description	Quantities (PCS)
IP67 LED bulb DLHT19 base	10W	196
DLUX Programmable Dimmer 3L	3000W	1
DLP19 cable	Total 150m length 3M light distance with 49pcs connectors	4
Extension cable with female & Male connector	10m cable for connecting the first tube to the Dimmer	1
Extension cable with female & Male connector	12m cable for connecting the first tube to the Dimmer	1
Extension cable with female & Male connector	15m cable for connecting the first tube to the Dimmer	1
Extension cable with female & Male connector	18m cable for connecting the first tube to the Dimmer	1
Junction Box	IP67 Junction box 1 in 2out	2

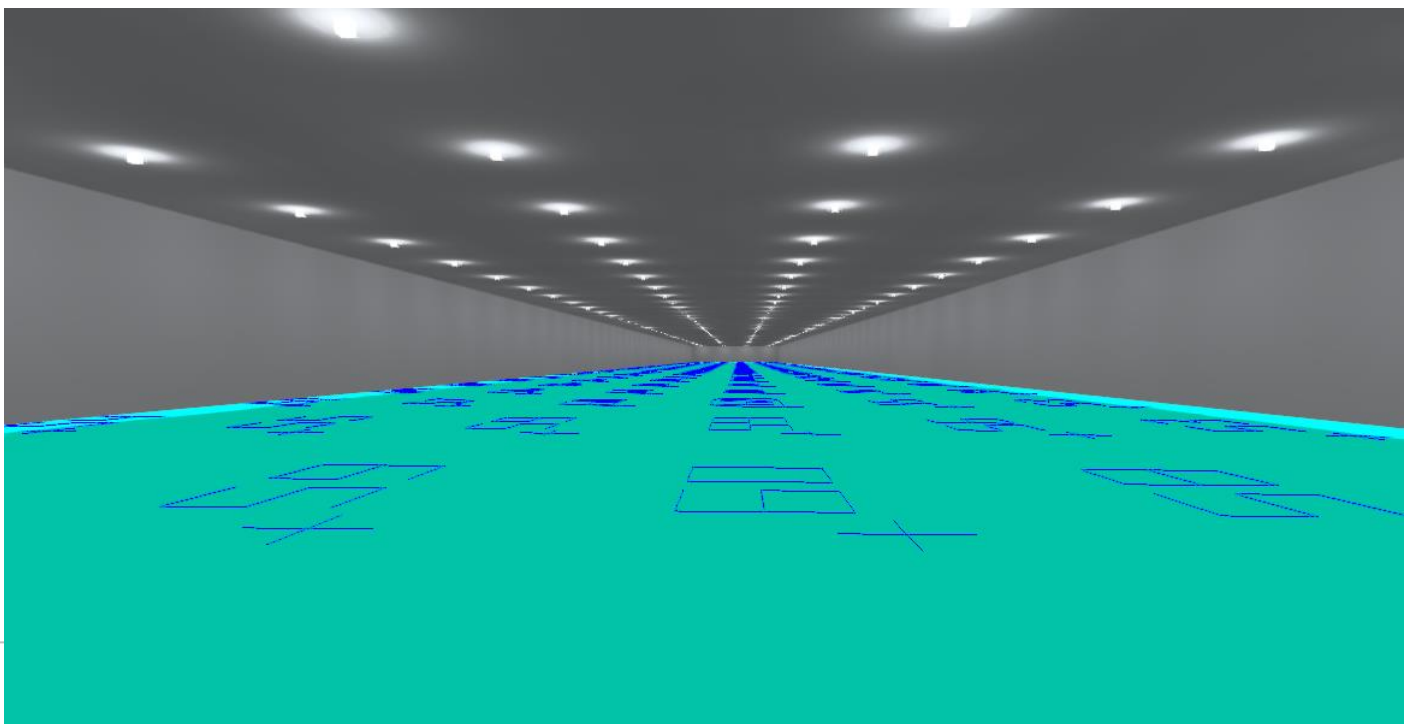
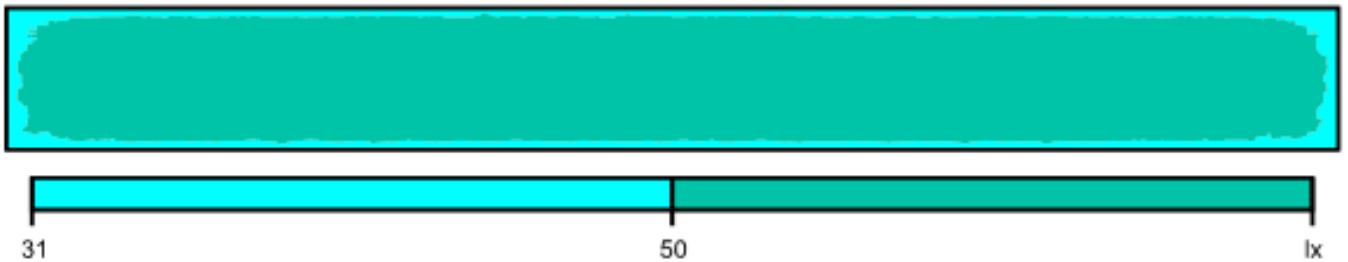
### 4. Simulation in Dialux for Broiler farm

#### Lux On the Ground Perpendicular illuminance (Surface)

Mean (actual): 55.4 lx, Min: 32.2 lx, Max:62.4lx, Min/average: 0.58, Min/max: 0.52



#### False colors [lx]

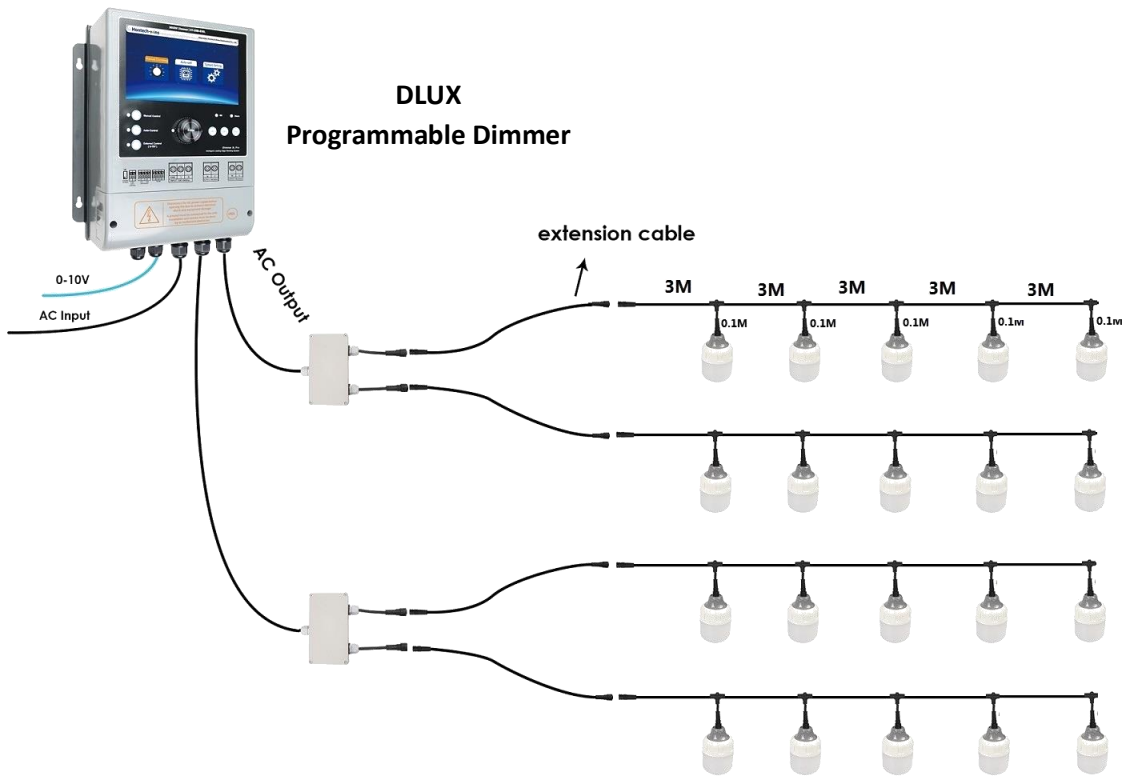


## 5. Connection & installation

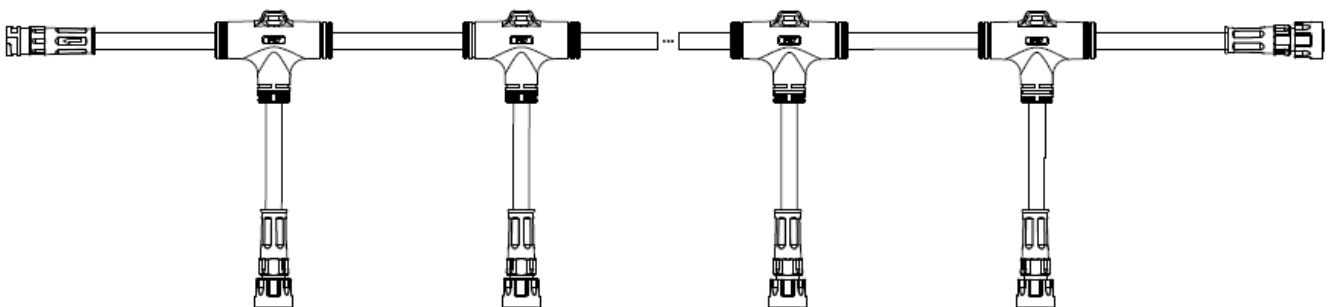
1 Broiler house total need 196pcs LED bulbs, total 3 line IP67 DLP19 LED Bulbs.

DLUX Programmable Dimmer 3L 3000W control 196pcs LED bulbs total. LED bulbs can be dim from 1% to 100% to adjust the LUX on the Ground.

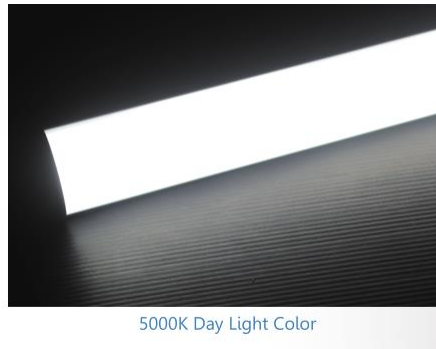
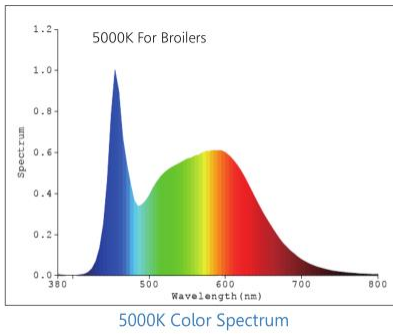
Controlling by the dimmer, farmer can set up its lighting program then the bulbs will Auto-change the brightness based on the lighting program setting.



DLP19 Cable



## 6. Suggested Color Temperature For Broiler



Why 5000K is the suggested color temperature for broiler?

**Red color** increase food intake, reduces the feather pecking of chick.

**Blue color** decrease movement when catching the chicken, make it not frightened then improve the quality of chicken meat.

**Green Color** increases growth rate at an early age by enhancing proliferation of skeletal muscle satellite cells.

LED chips 5000K can help chicken gain more weight.

## 7. Lighting project



Germany Chicken Farm  
Farm Size: 60m\*16m Color Switchable LED Lights: 50pcs



Australia Chicken Farm  
Farm Size: 148m\*28m T12 LED Lights: 132pcs(3\*44)



Australia Chicken Farm  
Farm Size: 130m\*15m T12 LED Lights: 96pcs(3\*32)



Saudi Arabia Chicken Farm  
Farm Size: 120m\*80m T12 LED Lights: 680pcs



Poland Chicken Farm  
Farm Size: 120m\*14m T8 LED Lights: 90pcs(3\*30)



Ukraine Chicken Farm  
Farm Size: 80m\*12m T12 LED Lights: 96pcs(3\*32)



Saudi Arabia Breeder Farm



Korea Broiler Farm



South Africa Cage Chicken Farm