

# SURNIA

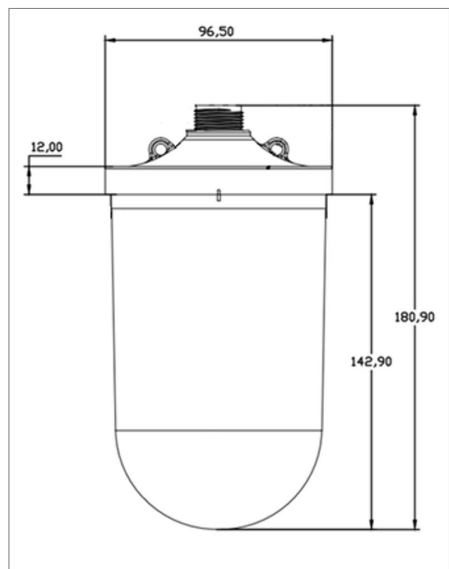
To realise an optimal light climate in low ceiling broiler houses all over the world, we developed the SURNIA. The SURNIA fulfils the needs of broilers to optimise broiler vision, health and performances in multiple ways.



## Specifications

Operating voltage:	48VDC
Dimmer type:	HATO 48VDC power supply
Dim range:	0 - 100%
Light source:	LED
Flicker-free:	yes
Expected average lifetime*:	50,000h
Operating temp.:	-10°C (14°F) < Ta < +40°C (104°F)
Nett weight:	310 gr / 0.7 lbs
Cover:	PMMA
Base:	ABS
Warranty:	8 Years**
Application:	Low ceiling houses and A-cage housing

## Dimensions



Standard cable length: 4cm

## Connection



T-connector  
(+ integrated cable)

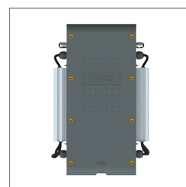


Junction Box



Dir-Connector

## Accessories



HATO POWERPACK  
POULTRY



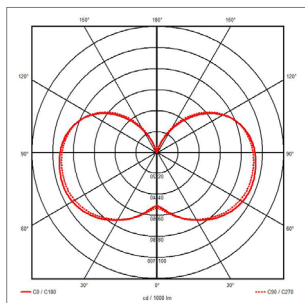
LTS-10-01

\* Lifetime definition & measurement available upon request

\*\* Ask your sales representative for the product specific warranty terms and conditions.

# SURNIA

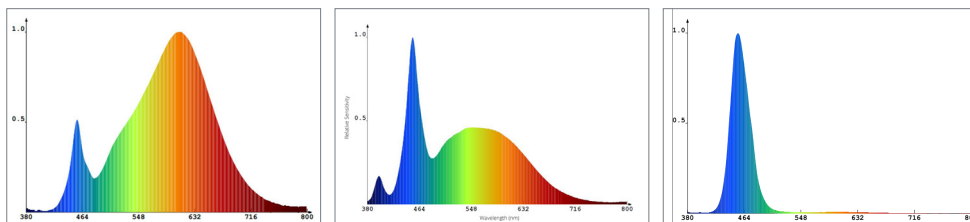
## Light distribution



Type	Power	Light output	Efficacy	CCT / Wavelength	CRI
SURNIA (WW)	9.4W	925lm	98lm/W	2900K	> 80
SURNIA (CW)	9.4W	925lm	98lm/W	4000K	> 80
SURNIA (WW-blue)	9.4W - 2.9W	925lm - 40lm	98lm/W - 13.3lm/W	2900K - 460nm	> 80
SURNIA (CW-blue)	9.4W - 2.9W	925lm - 40lm	98lm/W - 13.3lm/W	4000K - 460nm	> 80

## Spectrum

Measured with the HATO ONE spectrum meter

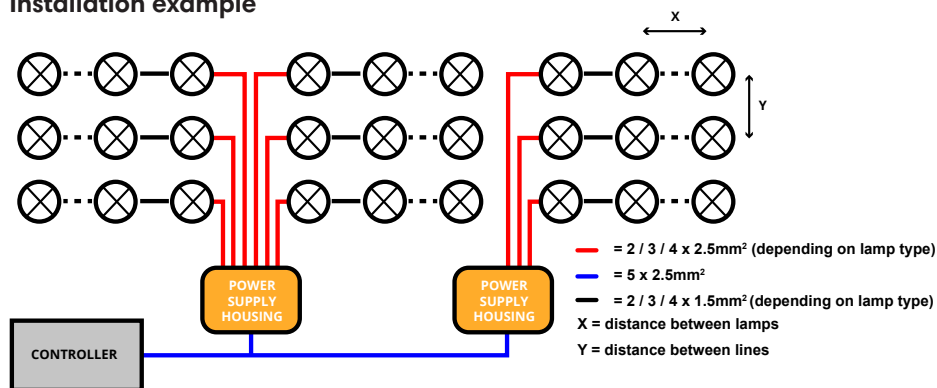


Warm white

Cold white

Blue

## Installation example



# SURNIA

## Installation according to IEC/CE with T3.15A fuse in HATO PACK

Distance between lamps	Maximum lamps in one line with 2x1.5mm <sup>2</sup> (16AWG) cable	Maximum lamps in one line with 2x2.5mm <sup>2</sup> (14AWG) cable
2.4m / 7.8ft	18	17
3.6m / 11.8ft	19	18
4.8m / 15.7ft	17	18

Cable thickness	Max length connection cable
2x 2.5mm <sup>2</sup>	22m / 71ft
2x 4mm <sup>2</sup>	35m / 113ft
4x 2.5mm <sup>2</sup>	86m / 281ft

### Markings



\*\* Protection test against penetration of water IPX7  
(protected against the effect of immersion between 15cm and 1m)

In case of discrepancy, the English version shall prevail