

# LED SPECTRA UNIT

**348 WATT WATERPROOF GREENHOUSE LIGHT**



TECHNICAL SPECIFICATION

**[WWW.LEDSPECTRAUNIT.COM](http://WWW.LEDSPECTRAUNIT.COM)**



**LED Spectra Unit**

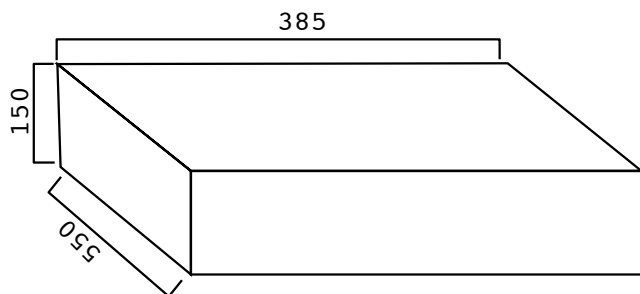
Francois HaverSchmidtwei 2 | 8914 BC Leeuwarden | The Netherlands | [info@ledspectraunit.com](mailto:info@ledspectraunit.com)

# LED SPECTRA UNIT SPECIAL II

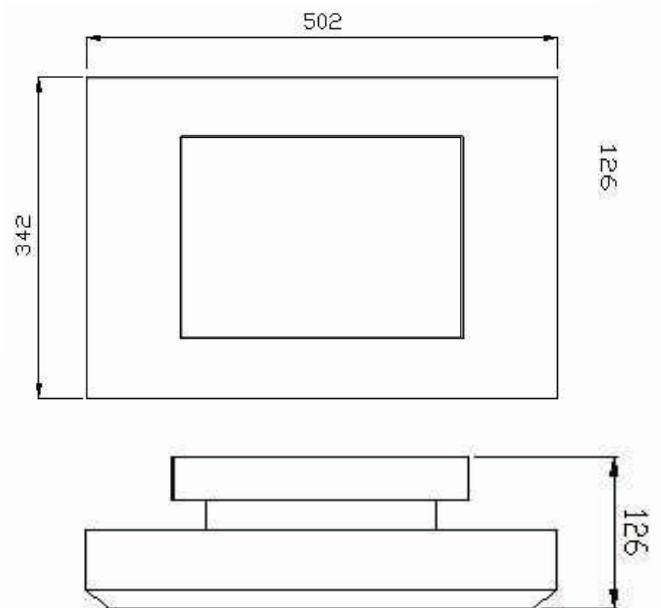


Picture of Led Spectra Unit Special II waterproof

## 348 WATT



Package Size



[WWW.LEDSPECTRAUNIT.COM](http://WWW.LEDSPECTRAUNIT.COM)

LED Spectra Unit

Francois HaverSchmidtwei 2 | 8914 BC Leeuwarden | The Netherlands | [info@ledspectraunit.com](mailto:info@ledspectraunit.com)

# Main Advantages Led Spectra Unit Special II waterproof

## 1. High efficiency and Energy saving

The LED Spectra Unit special II is a high efficiency Full-Spectrum LED grow light. Tests have shown that LED grow lights give plants greater light intensity and grow rates than standard HPS grow lights. The LED Spectra Unit special II - 348 watt produces great effect as 600 watt HPS grow light. It saves 50% - 75% electricity, greatly energy-saving and carbon-reducing.

## 2. Long life span

The LED Spectra Unit special II has an estimated life span of at least 30.000 hours. The life span of the LED's reaches up to 50,000 hours. The used LED chips are mainly purchased from American chip manufacturer Bridgelux. LED chip wavelengths which are not available at Bridgelux are purchased from quality chip manufacturers like Edison led or Epistar led.

## 3. Plug and Play

The LED Spectra Unit special II is a plug- and play grow light. Just plug directly into AC110 or AC230 Volts power socket, which makes the installation safe and simple. No setup required; no reflector and ballast are needed.

## 4. SSP technology and electrical protection

The LED Spectra special II uses the unique SSP technology. The SSP technology restricts the DC output voltage to never be higher than the LED chips voltage. It avoids the LED's from higher voltage shocking. The power design is also lighting- and surge-proof.

## 5. SPC technology for excellent performance

The LED Spectra Unit special II works more stable by SPC technology. If any of the LED chips does fail, it will not affect other LED's, as it does with standard LED grow lights. The high quality SSP and SPC design makes the LED Spectra Unit special II very stable and safe to use.

## 6. Flower Booster technology

The LED Spectra Unit special II is provided with 2 pieces switchable Grow and Flower Boosters. This creates an ideal growing and flowering environment, which increases yield and saves energy.

## 7. Advanced thermal design

The LED chips are directly welded on to an aluminium PCB instead of normal PCB. Aluminium PCB's have excellent passive heat dissipation. The six built-in fans are used for active heat dissipation. Combined passive and active heat dissipation keep the LED chips at the ideal temperature for best light intensity.

## 8. High powerful chips to attain higher luminescence

The LED Spectra Unit special II uses LED chips with amperage of 800mA. These high quality and High Power LED's have the highest luminescent efficiency and produce less heat.

## 9. Environment friendly

The LED Spectra Unit special II doesn't contain the harmful substance HPS & MH have; no hazardous waste to deal with which makes our earth cleaner and greener. LED's are superior in comparison to other lighting technologies in terms of negative environmental and health effects during the manufacturing process. Producing LED's consumes far less energy than manufacturing other lighting and it was noted the LED's contain no mercury and few if any toxins such as iodine and lead.

## 10. Easy maintenance

All electrical parts are wired with standard connectors, which make maintenance simple. When the warranty is expired, the maintenance can easily be done by customer.



[WWW.LEDSPECTRAUNIT.COM](http://WWW.LEDSPECTRAUNIT.COM)

LED Spectra Unit

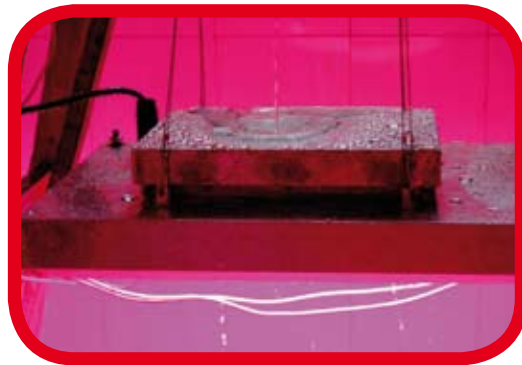
Francois HaverSchmidtwei 2 | 8914 BC Leeuwarden | The Netherlands | [info@ledspectraunit.com](mailto:info@ledspectraunit.com)



# LED SPECTRA UNIT SPECIAL II



**Application of Led Spectra Unit Special II waterproof**



**WWW.LEDSPECTRAUNIT.COM**

**LED Spectra Unit**

Francois HaverSchmidtwei 2 | 8914 BC Leeuwarden | The Netherlands | [info@ledspectraunit.com](mailto:info@ledspectraunit.com)

## Technical Specification of Led Spectra Unit Special II Waterproof

1. Power Factor(PF): AC220V PF> 90% , AC110V PF> 97%
2. Total Harmonic Distortion: <15%
3. Input AC : AC85-265V, 50 Hz/ 60 Hz
4. Input Power: 240-300W, depend on different Color Ratio
5. The number of LED: 144 PCS
6. Working environment temperature: -20°C~ 40
7. Working environment humidity: <90%
8. Storage temperature: -40 ~ 60
9. Level: Ip35
10. Working time: 10-14Hours /day
11. Package Size: 550mm\*385mm\*160mm
12. Gross Weight: 9.2KG Net Weight: 8.25KG

## Thermal Test results of Led Spectra Unit Special II Waterproof 600 mA LED driver

Thermal Test of Led Spectra Unit Special II Waterproof											
Date	Time	Heat Sink		AL-PCB		Leg of LED		Air		LED to Air	
		°F	°C	°F	°C	°F	°C	°F	°C	°F	°C
30th DEC	13:30	107.6	42	109.4	43	118.4	48	82.4	28	36	20
	14:00	105.8	41	113	45	122	50	90.5	32.5	31.5	17.5
	14:30	107.6	42	114.8	46	120.2	49	89.6	32	30.6	17
	15:00	109.4	43	113	45	120.2	49	89.6	32	30.6	17
	15:30	111.2	44	113	45	123.8	51	84.2	29	39.6	23
	16:00	114.8	44	114.8	46	122	50	86	30	36	20
	16:30	114.8	44	114.8	46	120.2	49	87.8	31	32.4	18
	17:00	114.8	44	116.6	47	125.6	52	86	30	39.6	22
	17:30	114.8	44	114.8	46	122	50	86	30	36	20
31st DEC	08:30	104	40	109.4	43	116.6	47	78.8	26	37.8	21
	09:00	102.2	39	104	40	114.8	46	77	25	37.8	21



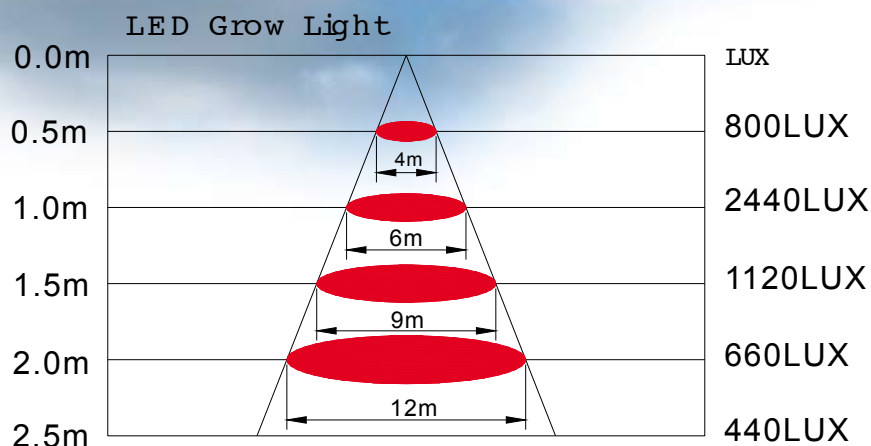
[WWW.LEDSPECTRAUNIT.COM](http://WWW.LEDSPECTRAUNIT.COM)

LED Spectra Unit

Francois HaverSchmidtwei 2 | 8914 BC Leeuwarden | The Netherlands | [info@ledspectraunit.com](mailto:info@ledspectraunit.com)

# LED SPECTRA UNIT SPECIAL II

## Parameter of Led Spectra Unit Special II Waterproof



## Parameter Comparison of Led Spectra Unit Special II Waterproof

Type Items	LED Grow Light	Incandescent Lamp	Fluorescent Lamp	Metal Halide
Visible light radiation energy	15-20%	5%	23%	27%
Infrared radiation energy	0%	90%	36%	17%
UV radiation energy	0%	0%	0%	19%
Physiological effective energy	15-20%	<0.1%	<1%	<0.5%
Conclusion	Most Suitable	Suitable	Little suitable	Not Suitable



[WWW.LEDSPECTRAUNIT.COM](http://WWW.LEDSPECTRAUNIT.COM)

LED Spectra Unit

Francois HaverSchmidtwei 2 | 8914 BC Leeuwarden | The Netherlands | [info@ledspectraunit.com](mailto:info@ledspectraunit.com)





The LED Spectra Unit is registered in all the European countries.  
EEC nr: 008413932



[WWW.LEDSPECTRAUNIT.COM](http://WWW.LEDSPECTRAUNIT.COM)

LED Spectra Unit  
Francois HaverSchmidtwei 2 | 8914 BC Leeuwarden | The Netherlands | [info@ledspectraunit.com](mailto:info@ledspectraunit.com)