

## METOLIGHT® LED Growlight Type SOL-UNI 200

Our LED growlights of the SOL-UNI series in a robust aluminum die-cast housing made of alloy AL6063 are equipped with Samsung and OSRAM special LED chips that provide a full light spectrum from 400 nm to over 750 nm with additional light in the 660 nm range at an angle of approx. 110 ° submit. The housing corresponds to IP66 and also includes the power supply unit.

In addition to the extremely high light output, these plant lights are characterized by the fact that the 0-10V can be dimmed and up to 10 lights can be switched in series (daisy chain). The dimming function can also be looped through with just one dimmer potentiometer for all lights in the same chain. All you have to do is connect the appropriate connection cables for the mains and dimmer function.

Either a potentiometer 10 kOhm or our dimmer item 102013 can be used for dimming.

### Note:

Please note that the lights are always delivered without connection cables and suspension devices. These parts must always be ordered separately if required.

With these low-maintenance plant lights you can easily replace a conventional HPSL spotlight of approx. 500 watts, which enables energy savings of over 60% with a significantly longer burning time. The light, which has been optimized for plants, enables a high level of absorption of the effective light photons, which contributes to faster and stronger growth.

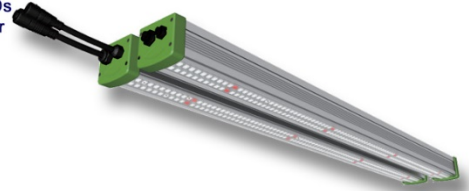
### Features:

- Input Voltage 180 ~ 240 VAC, 50/60 Hz
- Input Power 200 Watt
- Protection class IP66 – waterproof, safe to clean with high pressure water gun
- Self sealing connectors
- Lifetime up to 40000 hours at L90 / 30°C
- Uniform light distribution
- PPFD up to 500  $\mu\text{mol}/\text{m}^2/\text{s}$ , depending on distance luminaire to plants
- Efficacy > 2.3  $\mu\text{mol}/\text{J}$  – PPF Y 460  $\mu\text{mol}/\text{s}$
- Full spectrum with peak at 660 nm
- Integrated driver with self protection against over voltage and over temperature
- Each luminaire comes with individual light test report of our Asmetec Light Lab
- Compact sizes: 1200 x 80 x 70 mm (LxBxH), only 3,5 kg
- Optionally available as US-Version (Voltage up to 277 VAC)

### METOLIGHT®

LED-Pflanzlicht / LED Grow Light  
SOL-Uni - 200

230 VAC - 200 Watt  
Vollspektrum  
PPF 460  $\mu\text{mol}/\text{s}$  / 2,3  $\mu\text{mol}/\text{J}$   
Samsung LEDs  
IP66, dimmbar

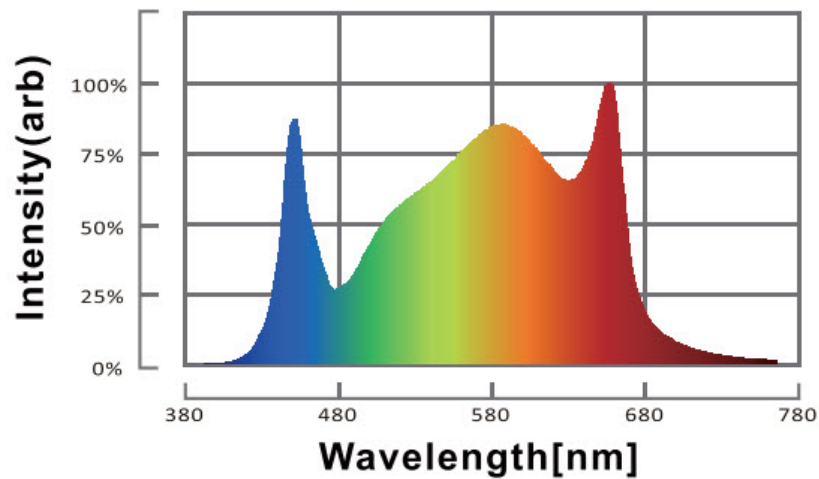


(Abbildung zeigt 2 Leuchten  
durchkontaktierbar / Daisy-Chain)



**ASMETEC**  
[www.asmetec-shop.de](http://www.asmetec-shop.de)

## Lightspectrum:



## Applications:

ideal for all growth phases, and soil culture, home garden, pot culture, garden, sowing, breeding, farm, floriculture, bonsai, greenhouse, greenhouse cultivation, water-soluble cultivation, greenhouse with spray water or with sprinkler systems



**Vegetables**



**Herbs**



**Cannabis**



## Technical Data:

Power Data		Light Data	
Input Power	200 Watt, Pf > 0,90		
Voltage	180 – 240 V AC – 50/60 Hz		
Input Current	900 mA		
LED-Chips	Samsung / Osram 3030	Color Rendering	Ra > 89
Driver	Constant current, integrated	Beam angle	110°
LED-Power	190 W	Brightness	> 120 lm/W
LED-Voltage	40-65 V DC	Licht Distribution	Symmetric
Protection Class	IP66	Lamp Body	Aluguß AL6063
Storage Temperature	-40°C – 65°C – 5-95% rH	Environment	-20°C - + 40°C – 45%-95% rH
Light loss	< 1% / 1000 h	Ø Life time	40.000 h /L90 / 30°C
Warranty	3 years		
Sizes / weight	1200 x 70 x 80 mm , Gewicht ca. 3,5 kg		

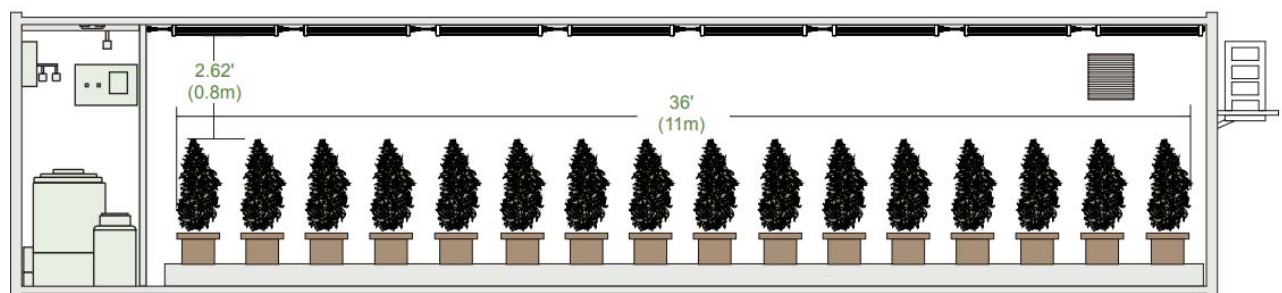
## Photosynthetic Flux:

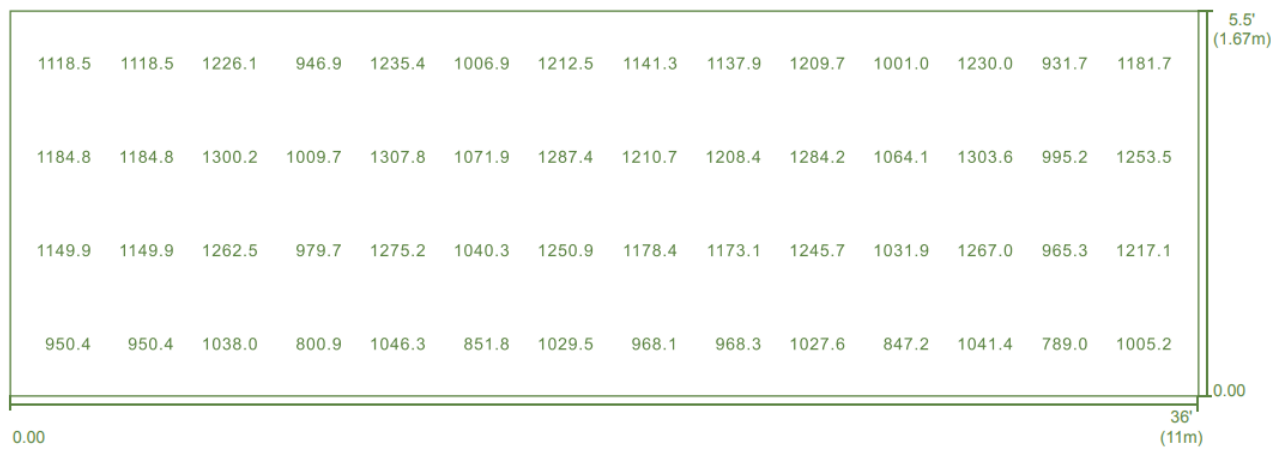
Height	Average PPFD	Coverage area
0.7' (0.2m)	534 $\mu\text{mol}/\text{m}^2/\text{s}$	1.3'x4' (0.4mx1.2m)
1.3' (0.4m)	270 $\mu\text{mol}/\text{m}^2/\text{s}$	2'x4.3' (0.6mx1.3m)
2' (0.6m)	161 $\mu\text{mol}/\text{m}^2/\text{s}$	2.6'x5' (0.8mx1.5m)
2.6' (0.8m)	110 $\mu\text{mol}/\text{m}^2/\text{s}$	3.3'x5.2' (1.0mx1.6m)
3.3' (1.0m)	70 $\mu\text{mol}/\text{m}^2/\text{s}$	4.6'x6.6' (1.4mx2.0m)

## Parameter

 <p>IP Level</p>	 <p>Beam Angle:110°</p>	 <p>5 Year Warranty</p>	 <p>1-10V Dimming(350-0001&amp;350-0009) 0-10V Dimming(350-0005&amp;350-0010)</p>
 <p>47.24"</p> <p>2.76" (70mm) 3.15" (80mm)</p> <p>North American Version</p>		 <p>1200mm</p> <p>2.76" (70mm) 3.15" (80mm)</p> <p>European Version</p>	

## Typical Application in professional Area:





48 SOL-UNI luminaires in 4 rows of 12 luminaires each result in a balanced carpet of light of over 1000 lux (undimmed) in a 40' container.

On request, we can deliver IES data for reading into light calculation programs such as Dialux or Relux

**Optional Accessories:** (not included in the scope of delivery)



Power cable US



Power cable Schuko



Link cable for  
Power (3wires)  
or dimming (2wires)  
0,5 m / 2 m / 3 m long



M19- Cap for power plug



M16 Cap for dimmer cable W

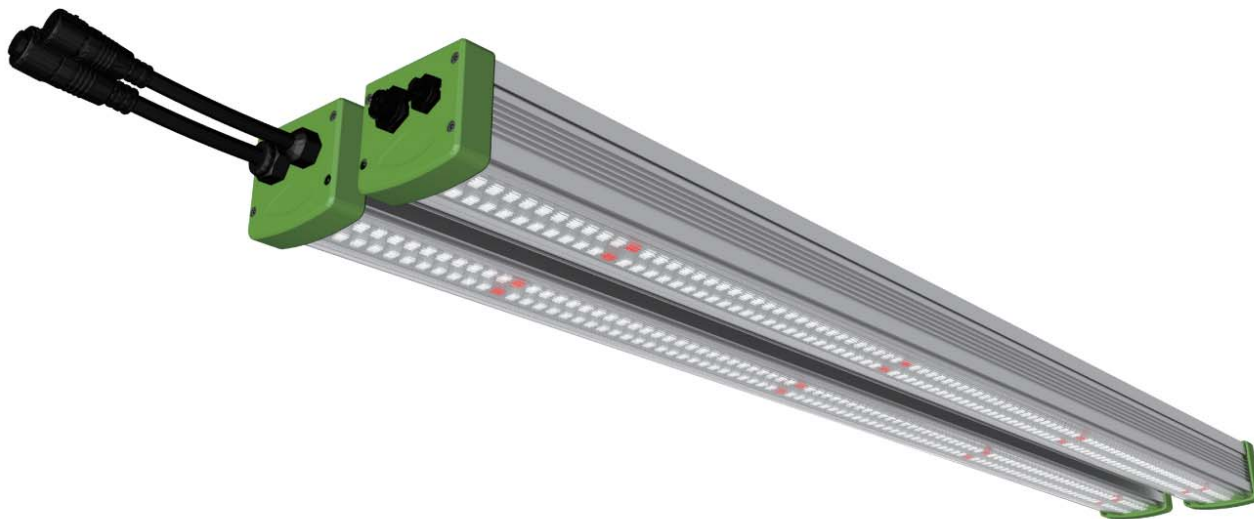


M16 Cap for dimmer cable M



Steel wire hanging set, including  
2 x stainless steel wires, 2 m long, adjustable  
2 x stainless steel hooks

**Image** (2 liminaires, showing both connection ends)



**Warnings:**

1. Do not use the light in pools of water or in permanent extremely wet areas.
2. The ideal working environment for the lamp is -20 ~ 40 °C, with humidity between 45% RH ~ 90% RH.
3. Before installing the luminaire, please disconnect it from the power supply and secure it against accidental switch-on.
4. Do not touch or move the luminaire when it is in operation..

The above statements are based on our present knowledge. Our statements should not be interpreted as a guarantee of characteristics. The use of our products by our customers is subject to different conditions, therefore none of our customers are relieved of the responsibility of testing our products by themselves. A liability for consequential damage will not be accepted in any case. For damage resulting from the use of this information we can only be held responsible if there is evidence of malice or negligence on our part. This data-sheet replaces any previous data sheets.

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**LED-GROW-SOL-UNI-DB-E.DOC, VERSION NOV-20**