



# TECHNICAL SPECIFICATIONS

## Agrosun Double-Ended High Pressure Sodium (HPS) Lamp 1,000W 2100K

ITEM CODE: BUSD1DEAG

**APPLICATIONS:** Horticulture, Controlled environment agriculture, Daylight supplementation in greenhouse structures, Livestock photoperiod management, Aquaculture, Algaculture.

**DESCRIPTION:** Agrosun Double-Ended HPS lamps are ideal for cultivation with high light intensity requirements. They provide high proportions of both red and blue light, which guarantees efficient, solid growth. Specifically designed for high frequency electronic ballasts, their high output of PAR light (2100  $\mu\text{mol/s}$ ) promotes photosynthesis. Made in the EU.

### PERFORMANCE DATA

|                                 |                        |
|---------------------------------|------------------------|
| Rated Initial lumens at 100 hrs | 140,000                |
| Rated Average Life              | 10,000 hrs             |
| Kelvin Temperature              | 2100K                  |
| CRI                             | 25                     |
| Lumen Output                    | 140,000                |
| Lumens per Watt                 | 140                    |
| PAR Value                       | 2100 $\mu\text{mol/s}$ |
| Warm-up Time                    | 7 min                  |
| Hot Re-strike Time              | 2 min                  |

### RE-LAMP INTERVAL

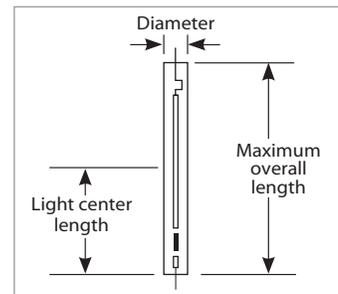
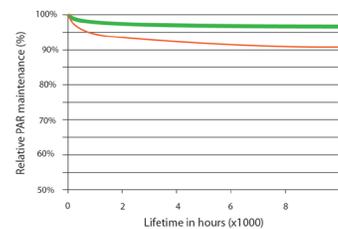
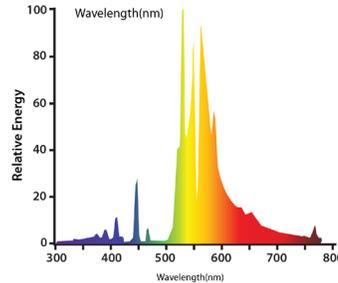
|                    |              |
|--------------------|--------------|
| Optimum Growth     | 12-16 months |
| Average Growth     | 16-20 months |
| Maintenance Growth | 20-24 months |
| Operating Position | Horizontal   |

### ELECTRICAL CHARACTERISTICS

|                           |       |
|---------------------------|-------|
| Lamp Wattage              | 1000W |
| ANSI Ballast Requirements | S52   |
| Open Fixture Rated        | OPEN  |

### PHYSICAL DESCRIPTION

|                                     |          |
|-------------------------------------|----------|
| Lamp Diameter (inches)              | 1.18 max |
| Max Overall Length (MOL) (inches)   | 12.71    |
| Lamp Center Location (LCL) (inches) | 6.35     |
| Lamp Finish                         | Clear    |
| Lamp Designation                    | 5002473  |
| Base Type                           | CLEAR    |



**CAUTION:** This is an electric discharge lamp. Use only with proper circuits and auxiliary equipment. Failure to comply with this requirement may result in poor performance and possible personal injury or property damage for which the lamp manufacturer will not be responsible. Do not scratch glass bulb or subject lamp to undue pressure as either may cause the lamp to break. Wear safety glasses and gloves when installing or removing lamp.

**WARNING:** This lamp can cause serious skin burn and eye inflammation from shortwave ultraviolet radiation if outer envelope of the lamp is broken or punctured. Do not use where people will remain for more than a few minutes unless adequate shielding or other safety precautions are used. This lamp complies with USA Federal Standard 21 CFR 1040.30 and Canada Standard SOR/80-381.

**AUXILIARY EQUIPMENT:** Lamps must be operated on ballasts and luminaires that meet all applicable ANSI specifications. External protection for the lamp is required to minimize bulb breakage due to water contact during lamp operation. For the total supply load, add auxiliary watts to lamp watts.

**NOTICE:** If outer bulb is broken, care must be taken to avoid contact with the arc tube support to avoid electrical shock hazard. Power should be off and lamp cool during replacement.

Lamp contains mercury. Manage in accordance with disposal laws. [lamprecycle.org](http://lamprecycle.org)