



## **DECODROP INSTALLATION GUIDE**

***Read and understand the following product and safety instructions to ensure a successful installation***

### **Product Description**

*Decodrops* are a series of fully assembled, point source, cable suspended, LED luminaires, ETL wet rated and suitable for exposed outdoor use. They feature a variety of metal, acrylic or glass decorative shades available in numerous sizes to fit the appropriate scale. Many LED lamps are available offering choices in shape, output and color temperature. Most selections are 120v and dim to 10% with a TE dimmer. Where safety is paramount, a 12v system is also offered pairing the heads with a 12VAC class II remote transformer.

### **Product Applications**

*Decodrops* most often find themselves as decorative "drops" suspended in large, mature, park scale trees to add character to the canopies and circulation illumination below. Being outdoor wet rated they are also very appropriate to illuminate open pergolas and trellises as well as breezeway canopies exposed to weather.

*Decodrops* also find great utility indoors as simple pendants for either general or feature illumination.

### **Product Components / Features**

**Socket:** Glazed Porcelain nickel plated screw shell socket. Medium Base, grounded style with cast threaded top cap.

**Power Cord:** Jacketed, three conductor, UV and wet rated 18/3 or 16/3 power cord with either SVT, SJT or SO outer jacket

**Cord Grips:** Nylon UV rated 3/8" cord grips secure the power cord to the fixture top. A second cord grip with a trade 1/2" male fitting is supplied to secure the cord end to a suitable weatherproof J-box hub (by others).

#### **Decorative Shades:**

The socket is protected from direct exposure by either a simple socket cup or a decorative shade in a variety of shapes, sizes and in a range of materials from metal, acrylic to glass. They are shipped as a complete assembly ready to lamp and hang.

#### **Lamps:**

*Decodrop* lamps are low output, medium base LED. They are specifically wet location listed suitable for direct and exposed use outdoors and are available in a variety of shapes, output, and color temperatures. Standard S14 and G16.5 lamps are cataloged however other selections are available on special order. *Decodrop* lamps all have a glass outer jacket to preserve clarity and resist yellowing after years in the elements. Silicone coating "SC" for lamp breakage containment can be added for food service compliance.

#### **120v vs 12VAC:**

*Decodrops* are all manufactured to the most stringent standards which is 120v / wet location regardless of application. The job labeling will specify maximum lamp ratings including-voltage and wattage. Low Voltage (12VAC) systems will be marked accordingly and will require a remote low voltage transformer as well as a 12v lamp. Several heads can be served by a single transformer within ratings. We recommend Class II transformers for their inherent safety.

#### **Dimming:**

Both 120v and 12v systems dim to ~10% when controlled by an ELV (Trailing Edge) dimmer. The LV system would dim the primary side of the transformer and requires several heads to reach a minimum load and a stable curve.



## **Installation Options**

### **Tree Mounting:**

A group of six or more *Decodrops* mounted within the canopy of a mature tree is the most common application. They are typically ordered with long cords to facilitate a generous suspension length from major branches, and plenty of tail to route to splicing points. Terminating to weatherproof j-boxes using the provided 1/2" cord grip is the most common attachment and always meets the scrutiny of inspectors. More compact splices without j-boxes can be done within local code limitations using appropriate crimp connectors and adhesive or silicone charged heat shrink. This box less wiring is also suitable for LV systems.

Fixture attachment and height adjustment is best accomplished by wrapping the cord around the branch and securing with a couple of UV rated zip ties. Arborists frown on mechanical attachment and this non-invasive approach allows for future tree growth and easy adjustment.

### **Pergola or Trellis Mount:**

*Decodrops* are a perfect solution to illuminate structures with a ceiling open to the sky. The fixtures can be mounted directly to a series of weatherproof j boxes with a 1/2" cover using the supplied 1/2" cord grip allowing easy height adjustment. We recommend contractor supplying matching W/P box and cover to eliminate any compatibility variances.

Alternate mounting is to tie the cord to a crossmember using UV rated zip ties and route the cord ends to group multiple terminations to W/P j-box.

### **Exterior Canopy Mount:**

*Decodrops* are a great answer to illuminate open breezeways that are subject to "sideways rain". The ceilings are often traditional stucco with a recessed box and fixture ring. Simply trim the box with a weatherproof round cover and attach the fixture cord grip to the center 1/2" port. Suspension length is easily adjusted. Be mindful that the head will not swing into an adjacent wall, window or column if wind gets lively.

### **Interior Canopy Mount:**

For interior applications, the same basic mounting technique applies without the need for W/B boxes. Either a decorative canopy can be used over a recessed or surface box or a simple 4S/5S flat plate with center K/O for our cord grip. Likewise, the *Decodrops* are often located and secured with a zip tie and the cord ends grouped in a center location.

### **Alternative Mounting Options:**

*Decodrops* are a single point drop however they can be very effective when mounted in tight clusters or in a linear fashion on a continuous channel. Both multiple canopies and linear mounts are available, contact the factory or your local representative to help develop your concepts.

### **Safety Warnings:**

- Do not install these fixtures in hazardous locations
- Do not install fixtures within 6" of any curtain or similar combustible material
- Do not install over swim pools or water features (check local codes for limitations)
- Replace with same lamps – wattage/voltage/wet rating

## **INSTALLATION MUST BE DONE BY A PROFESSIONAL OR QUALIFIED ELECTRICIAN**

Contact factory with any questions: 626-442-4600