

# ECO Spot™ LED80 User Manual

Thank you for choosing an ECO Spot™ Gobo projector. This unit is equipped with a fan cooled high power LED. Please read this manual before installing or operating this fixture, follow the safety precautions listed below and observe all warnings.



## Package Contents

- ✓ Projector with power cord and integrated gobo holder and rotator
- ✓ Integrated LED bulb

## Safety Information

- Place your fixture at a suitable place with good air flow.
- Keep flammable materials away from the fixture.
- Minimum distance to flammable material = 1 ft (0.3m).
- Minimum distance to illuminated surface = 3.3 ft (1.0m).
- Provide a minimum clearance of 4 in (10cm) around air vents.
- Use only genuine spare parts for part replacement.
- Do not look directly into the lamp; it can result in eye damage.
- Don't touch the hot surface during operation, use gloves if necessary.
- Always unplug the unit from the power mains before any service is done.
- Allow 20 minutes to cool down before servicing the unit.
- Light fixtures should be installed and maintained only by qualified personnel with experience in lighting equipment and general electrical experience.

## Electrical Safety

- Disconnect the fixture from AC power before handling it.
- Always ground (earth) the fixture electrically.
- Use only a power source that complies with local building and electrical codes and has both, overload and ground-fault protection.
- Do not use the fixture if the power cable or power plug is in any way damaged, defective or wet, or if they show signs of overheating.

### **Handling Instructions**

- Before the initial start-up, please unpack and carefully check for damage caused during transportation.
- Place your fixture at a suitable place with good air flow.
- Make sure there are no flammable materials close to the lamp.
- Depending on the ambient temperature, the lamp may need up to 60 sec. to start.
- When suspending the fixture above ground level, verify that the structure can hold at least 10 times the weight of all installed devices.
- Verify that all external covers and rigging hardware are securely fastened and use an approved means of secondary attachment such as a safety cable.

### **Warranty**

One Year from Date of Purchase

### **Lamp Replacement**

Under normal circumstances, the LED lamp will not need to be replaced over the lifetime of the projector. If it should fail, the projector will need to be sent in for service.

### **Focusing**

- Power up the projector by pressing the larger switch in the back.
- Turn on the gobo rotator with the smaller switch in the back and switch it off when the gobo projects in the desired position.
- Focus the projection by twisting the lens in and out until the image is well focused. When used for the first time, the lens will often need to be twisted many rotations to reach the focusing point. This can take up to three minutes. Gobo Rotator
- Turn on and off the gobo rotator with the switch on the back plate
- There are no controls for rotating speed or direction.

### **Gobo Replacement**

Unplug the power cord and let the projector cool down for 20min. Use caution, the housing and light bulb may still be hot.

- Unscrew the thumbscrews to remove the front cover with the projection lens.
- The gobo rotator with the gobo holder is now exposed.
- Carefully pull out the gobo holder.
- Unscrew the large ring that sits in front of the gobo.
- The old gobo is now accessible, carefully remove and replace it.
- Screw back in the large ring, so that it just touches the gobo, don't tighten it, otherwise it will be hard to remove it again.
- Replace the front cover.
- Power on the projector and refocus the image by screwing the projection lens in or out.

**Specifications**

**Voltage:** 110-130V, 50-60Hz, 0.8A, 90W

**Ambient Operating Temperature :** -13 to 104°F (-25 to 40°C)

**Rated bulb life:** 50,000 hours  
**Dimmable:** Not dimmable

**Dimensions**

**Fixture Body:** 7.5in x 5.5in x 17.5in (190mm x 140mm x 445mm)  
**Total Length:** 20in (500mm) with 25deg. lens, 24in (610mm) with 15 deg. lens  
**Yoke Base:** 6.4in x 7.8in (163 x 198mm)  
**Yoke Height:** 7.5in ( 190mm) (from base to center)  
**Total Height:** 10in ( 254mm) (from base to top)

**Weight:** ES-LED80: 13.5lbs (6.1kg),  
ES-LED80E: 11lbs (5kg)

**Gobo Types and Dimensions**

Metal or Glass Gobos and Dichroic filters

**Fits regular M-size gobos (OD66mm x ID48mm)**

- Outer Diameter (OD): 66mm (2.6 in)  
Max. Image Diameter (ID): 50mm (1.9 in)  
Max Thickness: 4mm (0.16 in)

**Typical Range**

The range varies greatly with the application and ambient light situation, typical values:  
6 to 32 ft in bright environments  
up to 64 ft in dim environments  
up to 112 ft in dark environments

**Lens Options**

- Standard 25 degree (included)
- Optional lenses 15 and 20 degree

No liable for errors or omissions