

ECO Spot™ LED80E User Manual

The ECO Spot LED80E is intended for exterior and interior applications. Thank you for choosing an ECO Spot™ Gobo projector. This unit is equipped with a fan cooled heat pipe to keep the 80W High Power LED running cool.

Please read this manual before installing or operating this fixture, follow the safety precautions listed below and observe all warnings.



WARNING!

To prevent damage to the LED, always connect the driver to the projector FIRST before powering up the driver.

Package Contents

- ✓ Projector with Projection Lens
- ✓ External LED Driver
- ✓ Test Gobo mounted
- ✓ Thread ring with silicone seal for the projection lens

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.
- Always unplug the unit from the power mains before any service is done.
- Light fixtures should be installed and maintained only by qualified personnel with experience in lighting equipment and general electrical experience.
- Disconnect the fixture from AC power before handling the fixture.
- 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

- There is a weatherproof connector between the driver (power supply) and projector, which can be opened for easier handling. **Always make this connection first before powering up the driver, otherwise the LED can be damaged by the power surge.**
- 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.
- 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. Keep your receipt for reference and contact your dealer in case of warranty issues.

Projection Lenses

The projector accommodates interchangeable projection lenses to allow optimizing the projection size and resulting brightness at varying distances. The more narrow the lens, the smaller and brighter the image will be at a given distance. For example, cutting the projection size in half, will quadruple its brightness.

Gobo Rotator

If the fixture is equipped with a gobo rotator, it can be turned on/off with the silver push-button on the front plate underneath the lens. There are no controls for rotating speed or direction.

Focusing

- Power up the projector.
- If the fixture is equipped with a gobo rotator, turn it on and then off again once the gobo projects in the desired position.
- Loosen the outer ring around the lens that acts as a water seal.
- 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 outwards many rotations to reach the focusing point. When in doubt, keep going.
- Re-tighten the outer ring with the seal to ensure the lens won't leak water.

Multi-functional Yoke

- The yoke can slide over the whole length of the fixture body to accommodate a wide range of pointing directions.
- The yoke can also serve as stand.
- The yoke can be screwed to a wall or ceiling or fastened with a C-clamp

Gobo Placement (see Specifications for Gobo dimensions)

The ES-LED40E can accommodate two different gobo sizes, E-Size and D-Size. See the Specifications for exact dimensions. For max. image size and brightness use the larger gobos. The recommended gobo image diameter is 35mm. An Image Diameter of up to 40mm is possible with some loss in focusing quality.

- Unscrew the thumbscrews to remove the front cover with the projection lens.
- Push the two pins of the gobo retaining ring together and pull out the retaining ring. Carefully remove the old gobo and replace it with the new gobo.
- **Tip:** Tilt the projector forward while placing the palm of your hand inside, the old gobo will fall into your hand.
- If you have a glass gobo, place the more reflective side towards the light bulb.
- Replace the retaining ring and make sure it evenly pushes the gobo all the way back.
- Replace the front cover and adjust the focus by threading the projection lens in or out.

Specifications

Voltage:	100-240V, 50/60Hz, 0.9A, 90W and 277V, 50/60Hz, 0.5A, 90W (US only)
IP-Ratings:	LED Driver: IP66, Fixture: IP 55
Ambient Operating Temperature:	-13 to 104°F (-25 to 40°C)
LED Bulb:	80W, 50,000 hours, 5,500k (+500/-1,000k)
Luminous Flux:	8,000lm (2,700lm effective)
Dimmable:	Not dimmable

Dimensions

Fixture Body:	7.5in x 5.5in x 14.5in (190mm x 140mm x 370mm)
Total Length:	18in (460mm) with 25deg. lens, 20in (510mm) 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:	Projector: 11lbs (5kg), Driver (Power Supply): 1.3lbs (0.6kg)
Gobo Size:	M-size: OD66mm x ID48mm up to 4mm thick
Gobo Types:	Glass, Metal, Plastic gobos up to 8 hours

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

Projection Lenses

The fixture comes with one lens included. Available lenses are:

- 25 degree Medium Wide
- 20 degree Medium
- 15 degree Medium Narrow