

ECO Spot™ LED40 User Manual



Thank you for choosing our ECO Spot™ LED40 Gobo Projector (SKU: ES-LED40). This unit is equipped with a fan cooled 40W High Power LED. It is also available as exterior version (ES-LED40E).

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

WARNING! Select the correct Line Voltage with the selector on the back of the unit before Operating.

Package Contents

- Projector with power cord and integrated gobo holder and rotator
- Spare gobo retaining ring and spare drive belt
- Test Gobo
- Gobo adapter for D- to E-Size gobos with retaining ring (ES-LED40 only)

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.
- Replace Lamps only with the same type other lamps may cause damage.
- 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 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.

ECO Spot™ LED40 User Manual

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.
- 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.

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 outwards many rotations to reach the focusing point.

Lens Options

- 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.
- Standard 20 degree (default)
- Optional lenses : Semi Narrow 15 degree and Semi Wide 25 degrees

Gobo Rotator

- The gobo rotator can be turned on/off with the red push-button switch on the back plate.
- There are no controls for rotating speed or direction.

Multi-functional Yoke

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

ECO Spot™ LED40 User Manual

Gobo Replacement

The ES-LED40 can accommodate two different gobo size, E-Size and D-Size. See the Specifications for exact dimensions. For max. image size and brightness use the larger gobos. The recommended max. gobo image diameter for D-Size gobo is 35mm. An Image Diameter of up to 40mm is possible with some loss in focusing quality.

- Unscrew the six thumbscrews to remove the front cover with the projection lens.
- For E-Size gobos, use the screw-in adapter ring. For larger gobos (D-Size), remove the adapter ring and use the larger retaining ring.
- 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. You may have to tilt the projector forward for the gobo to fall out. Use caution, not to break the gobo, have it fall into your hand.
- If you have a glass gobo, place the most 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 screwing the projection lens in or out.



For D-Size gobos, remove the E-Size Adapter and leave it out:



ECO Spot™ LED40 User Manual

Specifications

Line Voltage (use the Line Voltage Selector in the back to select the correct line voltage.)

US/Canada Setting: 90-130V, 50-60Hz, 0.5A, 48W

International Setting (220V): 200-240V, 50Hz, 0.25A, 48W

Ambient Operating Temperature

-13 to 104°F (-25 to 40°C)

Gobo Dimensions

Metal or Glass Gobos and Dichroic filters. The Projector takes D-Size gobos:

Outer Diameter (OD): 53mm

Max. Image Diameter (ID): 35mm (max 40mm)

Max Thickness 4mm (0.16 in)

Larger ID up to 40mm is possible with some loss in focusing quality. An adapter for the smaller E-Size gobos is included.

LED Lamp

- Extremely high light density for ultra-efficient projection. – Power: 40W

- Bulb life: 50,000h - Color Temperature: 6,000K

- Rated Luminous Flux: 2,000lm - Effective Luminous flux: 1,500lm

Dimensions / Weight

Body without Yoke: 10.5 x 6.7 x 3.75 in (L x W x H) (267 x 153 x 95mm), The projection lens adds 0.5 to 2 in (12-50mm) to the length.

Height with Yoke: 7.75in (197mm)

Weight: 7lbs (3kg)

Lens Options

The projector can be equipped with standard projection lenses of the ECO Spot line. These lenses are marked based on a gobo image size of 25mm. with the larger gobo image size, a given lens produces a larger image than the lens specification, see the effective lens angles in () below. The more narrow the lens, the smaller and brighter the image will be at a given distance. Currently these lenses are available:

- Wide 25° (effective 35°)
- Medium 20° (effective 28°)
- Medium Narrow 15° (effective 21°)

Product Distributed by

Sunhope Inc

2750 14th Ave., Unit G12-13, Markham, ON, L3R 0B6

www.sunhope.ca / www.thegobo.com

Tel: (905)604-7080 Toll Free: (1-800) 905-7080

Email: sales@thegobo.com