

**Specifications****ES-35FCE:****Voltage (US Version)**

90-130V, 50-60Hz, 0.38A, 41W

Power factor 0.98

**International Version**

200-240V, 50Hz, 0.2A, 41W

**ES-70E:****Voltage (US Version)**

90-130V, 50-60Hz, 0.8A, 85W

Power factor 0.98

**International Version**

200-240V, 50Hz, 0.4A, 85W

**Ambient Operating Temperature**

-13 to 104°F (-25 to 40°C)

**Dimensions**

Base 5.25in x 3.25in x 3.25in (133 x 83 x 83mm)

Head 9.5in x 3.4in (241 x 86mm)

Total height 8.25in (210mm)

Weight 4.5lbs (2,040g)

**Gobo Dimensions**

Metal or Glass Gobos and Dichroic filters

Outer Diameter (OD): 37.5mm (1.47 in)

Max. Image Diameter (ID): 25mm (1.0 in)

Max Thickness 4mm (0.16 in)

**Lens Options ES 35FCE**

- Standard 20 degree (included)
- Narrow 10 degree
- Wide 25 degree

**Lens Options ES 70E**

- Standard 20 degree (included)
- Narrow 15 degree
- Wide 25 degree

**Replacement Lamp ES-35FCE****35W HID MR16 Lamp with GU10 socket**

Philips MASTERColour CDM-Rm Mini Elite35W/930 GX10 10D

Other product name: MC CDM-Rm Mini Elite 35W/930 GX10 10D

ILCOS code: MRS/UB-35/30/1A-H-GX10

Order Code: HID35Eco

HID MR16 Lamp GU10 35W

Rated bulb life 12,000hrs

Expected bulb life 8,000hrs

Color temperature 3,000K

Luminous Intensity 18,000cd

Socket GX10

CRI 87-90

**Replacement Lamp ES 70E****Osram HCI-TC 70W/942 or Philips Master Colour CDM-TC**

70W/942, Socket G8.5, Color temperature

4,200K, Luminous Flux 12,700lm

# ECO Spot 70E/35FCE™ User Manual



Thank you for choosing an ECO Spot Exterior Gobo projector. These outdoor units are equipped with a discharge light bulb and features interchangeable projection lenses.

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, integrated gobo holder and projection lens.
- ✓ Light Bulb
- ✓ Test Gobo

**WARNING:**

**If this projector is used outdoors, it needs to be installed by a qualified professional, following all related codes and safety regulations. This may include removing the power cord and hard wiring the fixture.**

**Safety Information**

- Do not look directly into the lamp, it can result in eye damage.
- This product is not for household use, it presents risks of severe injury or death due to fire and burn hazards, electric shock, lamp explosion and falls.
- Light fixtures should be installed and maintained only by qualified personnel with experience in lighting equipment and general electrical experience.
- Always disconnect the unit from power and allow cooling down for 20 minutes before servicing.
- Place your fixture at a suitable place with good air flow and keep flammable materials away.
- Minimum distance to flammable materials = 1ft. (0.3m).
- Minimum distance to illuminated surfaces = 3.3ft. (1.0m).
- Provide a minimum clearance of 4in. (10cm) around air vents.
- Don't touch the hot surface during operation, use gloves if necessary.
- Replace Lamps only with the same type other lamps may cause damage.
- 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.
- 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 approved means of secondary attachment such as a safety cable.

**Handling Instructions**

- Please unpack and carefully check for damage caused during transportation.
- Make sure there are no flammable materials close to the fixture.
- Do not touch the light bulb with bare hands, the oils can damage the bulb and can cause failure or explosion of the bulb.
- After turning off the projector, it may take up to 15 minutes to restart.
- Use only genuine spare parts for part replacement.

**Warranty**

One Year from Date of Purchase

**Contact**

Globus New Media LLC  
 Tel 1-888-987-1112 or 1-408-416-4444  
 Fax 1-408-416-4445  
 www.globusnewmedia.com

**Lamp Replacement**

- Unplug the projector before re-lamping and let it cool down for min. 20min. Use caution, the housing and light bulb may still be hot.
- Unscrew the four (4) Philips screws that hold the back plate.
- Pull out the back plate; it will come out with the lamp socket and gobo holder attached. If the cable appears too short to pull it out all the way, tilt the projection head down to gain more slack.
- Remove the lamp by twisting it counter clockwise and then pull it out of the socket. Reverse this procedure for the new lamp. Do not touch the lamp glass with your fingers.
- When done, mount the back plate by using all four (4) Philips screws. It is easier to keep the seal in place by pushing the front plate tightly against the housing before turning the screw.

**Gobo Replacement**

- The gobo is also accessible during the lamp replacement procedure. For regular gobo exchange it is easier to follow the instructions below.
- Unscrew the four (4) Philips screws that hold the front plate and remove it.
- The gobo holder with the gobo is now exposed.
- Push the two pins of the gobo retaining ring together and pull it out.
- Carefully remove the old gobo.
- 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.
- For testing the gobo projection position, the front plate will have to be replaced. It is a good idea to not fully screw it back on as it may have to be removed again to tweak the gobo.
- When done, mount the front plate by using all four (4) Philips screws. It is easier to keep the seal in place by pushing the front plate tightly against the housing before turning the screw.

**Focusing**

- Power up the projector and wait a minute for it to reach full brightness.
- Loosen the ring that seals the projection lens on the base of the front plate.
- 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.
- Re-tighten the ring that seals the projection lens on the base of the front plate. Hold the projection lens steady with your other hand so focus won't change.

**Changing the Projection Lens**

Depending on the desired projection distance and size, different projection lenses can be used. How to change the lens:

- Loosen the ring that seals the projection lens on the base of the front plate and remove it.
- Unscrew the projection lens
- Screw in the new lens and focus it.
- Re-tighten the ring that seals the projection lens on the base of the front plate. Hold the projection lens steady with your other hand so focus won't change.