# ECO Spot C60PCE LED Gobo Projector

**Weather- and Dustproof Projector for Rough Environments**

- **Passive Cooling** - No moving parts such as fans or motors.
- Ideal for dusty and wet industrial environments.
- For very bright environments, extra large projection sizes and distances.
- Interchangeable Projection Lenses, for wide projection distance/size range.
- Takes std. **D-size gobos**, up to Full Color.

## SPECIFICATIONS:

| | |
|---|---|
| **Order Code:** | **ES-60PCE** |
| **Power Supply:** | 95V-265V, 50-60GHz, 75W |
| **Other Build Options:** | ES-C60E with active cooling and gobo rotator<br>Passive Cooled models: 90W, 150W, 300W |
| **Lamp Type:** | LED 60W |
| **LED Power Range:** | Adjustable 60 to 70W |
| **Rated Life:** | 30,000h depending on power setting |
| **Color Temperature:** | 6,000k +/-500k |
| **Luminous Flux:** | 4,000lm (effective flux 2,400lm) |
| **Projection Lenses:** | Narrow: f=140mm/10°, Semi-Narrow: f=100mm/15°<br>Medium: f=70mm/25°, Ultra-Wide: f=28mm/45° |
| **Gobo Dimensions:** | D-Size (OD53mm, ID32mm), max. thickness: 4mm |
| **Gobo Types:** | Glass and Metal, **NO** film material |

### PROJECTION RANGE

| | |
|---|---|
| **Bright environment:** | - up to 50ft |
| **Dim environment:** | - up to 90ft |
| **Dark environment:** | - up to 180ft (or more in very dark conditions) |

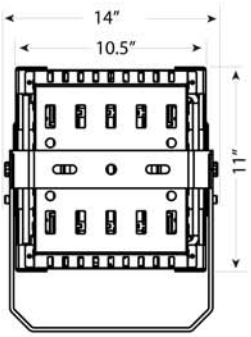
### SAFETY STANDARDS

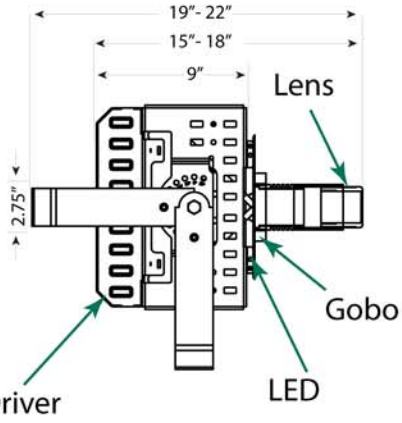
| | |
|---|---|
| **Projector:** | IP62 (self rated), UL in preparation |
| **Driver:** | IP65, UL8750(type"HL"), CSA C22.2 No. 250.0-08, ENEC, TUV EN61347-1, EN61347-2-13, J61347-1, J61347-2-13 approved; design refer to UL60950-1, TUV EN60950-1 |

# ECO Spot C60PCE LED Gobo Projector

## Dimensions:

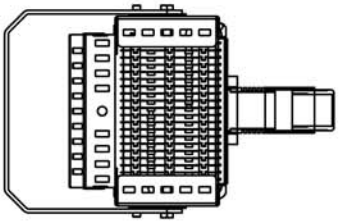
**Projector Body:** 11 x 10.5 x 9in
**Weight:** 14lbs




### Total length including the projection lens:

- Narrow: f=140mm/10°: 18in
- Semi-Narrow: f=100mm/15°: 17in
- Medium: f=70mm/20°: 15in
- Ultra-Wide: f=28mm/45°: 16.5in



### Total length including the lens & yoke:

- Narrow: f=140mm/10°: 22in
- Semi-Narrow: f=100mm/15°: 21in
- Medium: f=70mm/20°: 19in
- Ultra-Wide: f=28mm/45°: 21.5in

**ECO Spot™ Photometrics** — ECO Spot is a Trademark of Globus New Media LLC dba Gobosource

| Model Gobo Size | Color Temp. | Lens | Beam Mult. | Effective lm | CD | Value | PROJECTION DISTANCE IN FEET (ft) 3 | 6 | 9 | 12 | 15 | 20 | 24 | 30 | 36 | 42 | 64 | 88 | 112 | 136 | 200 | 300 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ES-C60 ES-C60E ES-C60+ ES-C60PCE | 6000k +/- 500k | 140mm (10°) | 0.18 | 2381 | 93,600 | Size (ft) | | | 1.6 | 2.2 | 2.7 | 3.6 | 4.3 | 5.4 | 6.5 | 7.6 | 11.5 | 15.8 | 20.2 | 24.5 | 36.0 | |
| | | | | | | Brightn.(fc) | | | 1156 | 650 | 416 | 234 | 163 | 104 | 72 | 53 | 23 | 12 | 7 | 5 | 2 | |
| | | 100mm (15°) | 0.26 | 3362 | 63,360 | Size (ft) | | 1.6 | 2.3 | 3.1 | 3.9 | 5.2 | 6.2 | 7.8 | 9.4 | 10.9 | 16.6 | 22.9 | 29.1 | 35.4 | | |
| | | | | | | Brightn.(fc) | | 1760 | 782 | 440 | 282 | 158 | 110 | 70 | 49 | 36 | 15 | 8 | 5 | 3 | | |
| | | 70mm (20°) | 0.35 | 3739 | 38,880 | Size (ft) | | 2.1 | 3.2 | 4.2 | 5.3 | 7.0 | 8.4 | 11 | 13 | 15 | 22 | 31 | 39 | | | |
| | | | | | | Brightn.(fc) | | 1080 | 480 | 270 | 173 | 97 | 68 | 43 | 30 | 22 | 9 | 5 | 3 | | | |
| E-Size ID=25mm | | 50mm (25°) | 0.45 | 4807 | 30,240 | Size (ft) | | 2.7 | 4.1 | 5.4 | 6.8 | 9.0 | 11 | 14 | 16 | 19 | 29 | 40 | 50 | | | |
| | | | | | | Brightn.(fc) | | 840 | 373 | 210 | 134 | 76 | 53 | 34 | 23 | 17 | 7 | 4 | 2 | | | |
| | | 28mm* (45°) | 0.88 | 5952 | 9,792 | Size (ft) | | 5.3 | 7.9 | 10.6 | 13.2 | 17.6 | 21.1 | 26.4 | 31.7 | 37.0 | 56.3 | MAX ID For this Lens is 23MM | | | | |
| | | | | | | Brightn.(fc) | | 272 | 121 | 68 | 44 | 24 | 17 | 11 | 8 | 6 | 2 | | | | | |

GoboSource Custom Gobos and Projection Solutions

*ECO Spot* is a Trademark of Globus New Media LLC dba Gobosource — Copyright ©2018 GoboSource™

**How to Read the Illumination Values**

| | |
|---|---|
| Foot Candles (ft) | For a quick overview, the illumination values in the tables are color coded. There are many factors that determine the visibility of a projection, such as ambient light, color and reflectiveness of the projection surface, competing light, gobo colors, projector color temperature, and other factors. Therefore our recommendations should only be used as guidelines and we cannot guarantee a successful application. If you are unsure, please call us to discuss. |
| Projection Size Calculation | For the resulting Projection Size at any given Distance, Multiply the number in the "Beam Mult." column with your Projection Distance. For the Distance needed to achieve a desired Projection Size, Divide the Projection size by the Beam Multiplier. **Projection Size = Distance x Beam Mult. Distance = Projection Size / Beam Mult.** |
| 300+ | Extreme brightness for extremely bright environments, i.e. bright areas, additionally flooded with daylight, such as Lobby-, Retail-, Trade Show-, Environment. Outdoors (shady, no direct sunlight). |
| 150-300 | Very high brightness for very bright environments, such as light flooded Office-, Lobby-, Retail-, Trade Show-, Environment. Color gobos project in vibrant colors. Outdoors well visible at night with vibrant colors. |
| 45-150 | The most common brightness bracket for bright environments, such as Office, Lobby, Retail, Tradeshow. Outdoors extremely bright at night. Color gobos project well. |
| 15-45 | Sufficient brightness for environments, such as Bars, Clubs, and intimate Restaurants, Theaters, and dimmed Conference rooms. Outdoors well visible at night. Color gobos should preferably be used with lighter colors and the projection surface should be light and somewhat reflective. |
| 15-2 | Only advisable for dark environments and subtle projection of light colored artwork, preferably on light, reflective projection surface. If all conditions are met, the max. listed image distance/size can be doubled in most cases. |

**Metric Conversions: For Meters multiply feet by .3048. For Lux multiply footcandles by 10.76**

## PACKAGE CONTENTS

Power Cord • Test Gobo • Spare Gobo Retaining Ring • Integrated Gobo Mounts • User Manual


FORKLIFT TRAINING SYSTEMS
614-583-5749
www.forklifttrainingsystems.com
info@forklifttrainingsystem.com