# ETC                                    ColorSource Spot

## ColorSource Series

Type(s)

Project

Date

Notes

## GENERAL INFORMATION

The ETC ColorSource Spot brings together the affordability of a four-color light engine with the build-quality and support of an ETC product. Using a unique mix of red, green, blue and lime LED emitters, the ColorSource Spot offers an amazing range of color and depth, unlike other low-cost LED fixtures. Because it utilizes standard ETC optics, adapters and accessories, it is a versatile solution for any lighting need.

### APPLICATIONS
- Theatres and performance spaces
- Houses of worship
- Universities and schools
- Hospitality
- Retail
- Exhibition centers
- Meeting rooms
- Clubs
- Cafetoriums

### PRODUCT FEATURES
- ETC's RGB-L array (red, green, blue and lime)
  - Also available in Deep Blue, which replaces the blue LEDs with indigo for rich, saturated blues and magentas
- Simple user interface with seven-segment display
- powerCON® in and thru
- DMX/RDM in and thru (5-pin XLR)
- LED droop compensation
- Optically calibrated
- Tour-ready, aluminum housing
- Combine with available adapters to transform your fixture into a fully functional Fresnel or CYC light

## ORDERING INFORMATION

### ColorSource Spot Light Engine with Shutter Barrel
(For use with fixed-field lens tubes only)

| MODEL | DESCRIPTION | ETL PART NUMBER | CE PART NUMBER | |
|-------|-------------|-----------------|----------------|--|
| CSSPOTS | ColorSource Spot with shutter barrel, black | 7413A1001 | 7413A1201 | |
| CSSPOTDBS | ColorSource Spot Deep Blue with shutter barrel, black | 7413A1041 | 7413A1241 | |

### ColorSource Spot Light Engine Body
(For use with zoom lens tubes and adapters and for retrofit of existing fixtures)

| MODEL | DESCRIPTION | ETL PART NUMBER | CE PART NUMBER | |
|-------|-------------|-----------------|----------------|--|
| CSSPOT | ColorSource Spot, body only, black | 7413A1000 | 7413A1200 | |
| CSSPOTDB | ColorSource Spot Deep Blue, body only, black | 7413A1040 | 7413A1240 | |

Color options: -1 = white, -5 = silver gray, -8 = custom colors.
Fixture ships with a soft-focus diffuser in a gobo holder, a c-clamp and a 1.5 m powerCON power-input cable
with a connector of choice. See page six for connector options.
Please note: Lens tubes to be ordered separately. C-clamps included in NA regions only.

## PRODUCT SPECIFICATIONS

### Source

| | |
|---|---|
| LED details | 60 Lumileds LUXEON® Rebel LED |
| Max lumens | 6,932 |
| Lumens per watt | 42.4 |
| L70 rating (hours to 70% output)* | 54,000 hours (both variants) |

### Color

| | |
|---|---|
| Colors used | Spot: Red, green, blue, lime<br>Spot DB: Red, green, indigo, lime |
| Color temperature range | Color mixing |
| Calibrated array | Yes |
| Red shift | No |

### Optical

| | |
|---|---|
| Beam angle range | Swappable lens tubes between 5-90 degrees |
| Gate size | 79-24 mm |
| Aperture size | 6.25–14 in (depending on lens tube) |
| Pattern projection | Yes |
| Pattern size | A or B |
| Camera flicker control/Hz range | 1,200 Hz (default) and 25,000 Hz (via RDM) |
| Notes | Can be used with LED CYC and Fresnel adapters |

### Control

| | |
|---|---|
| Input method | DMX512 via 5-pin XLR connector |
| Protocols | DMX512/RDM |
| Modes (footprint) | 4 modes, see page 7 |
| RDM configuration | Yes |
| UI type | Seven-segment, three-button interface |
| Local control | Yes |
| Onboard presets | Yes (12) |
| Onboard sequences | Yes (5) |
| Onboard effects | No |
| FixtureLink | Yes |
| Notes | 15-bit virtual dimming engine |

### Electrical

| | |
|---|---|
| Voltage range | 100–240 VAC 50/60 Hz |
| Input method | powerCON power in and thru |
| Inrush | 28 A at 120 V (First half-cycle)<br>46 A at 240 V (First half-cycle) |
| Fixtures per circuit* | 9 fixtures (15 A power thru connector) or 10 fixtures (R20 module or similar) |
| Wattage typical/standby | 168 W/1.19 W at 100 V<br>166 W/2.07 W at 120 V<br>166 W / 1.5 W at 240 V |
| Current draw typical/ standby | 1.69 A/0.05 A at 100 V<br>1.39 A/0.05 A at 120 V<br>0.72 A/0.05 A at 240 V |

*Note: All measurements are for 120 V, 60 Hz. Results may vary in different regions.

### Thermal

| | |
|---|---|
| Ambient operating temp | 0°–40° C (32°–104° F) |
| Fan (controllable) | Yes (no) |
| Droop compensation | Yes |
| dB range | 21.2 dBA average at 1 m |
| BTUs/hour | 504.78 |

### Physical

| | |
|---|---|
| Materials | Die-cast, all metal housing |
| Color options | Black, white, silver, or custom color |
| Mounting options | Yoke |
| IP rating | IP20 |
| Weight | 7.7 kg (17 lb) (without lens) |
| Included accessories | Hanging yoke, 1.5 m power cable, soft-focus diffuser in an A-size gobo holder |
| Notes | See page 6 for power cable options |

### Warranty

| | |
|---|---|
| Fixture | 5 years |
| LED array | 10 years |

### Regulatory and Compliance

| | |
|---|---|
| Approved regulatory standards | cETLus Listed<br>Conforms to UL 1573 Listed<br>Conforms to UL 924 Listed<br>Certified to CSA C22.2 No. 166 Listed<br>Certified to CSA C22.2 No. 141 Listed<br>CE Compliant<br>EAC Compliant |

**\*Note about LED luminaire lifetime:**
ETC utilizes a nationally recognized third-party lab for luminaire testing according to IES LM-84. See etcconnect.com/About/News/ETC-Fixture-Ratings-and-Warranties-Extended.aspx.

All LED sources experience some lessening of light output and some color shift over time. LED output will vary with thermal conditions. In individual situations, LEDs will be used for different durations and levels. This can eventually lead to minor alterations in color performance, necessitating slight adjustments to presets, cues or programs.

## PRODUCT FEATURES
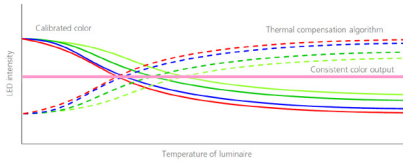


**LED DROOP COMPENSATION**
ETC's custom software adjusts for the changes that naturally occur as LEDs heat up and cool down so you never have to worry about color shift.



**RGB-L ARRAY**
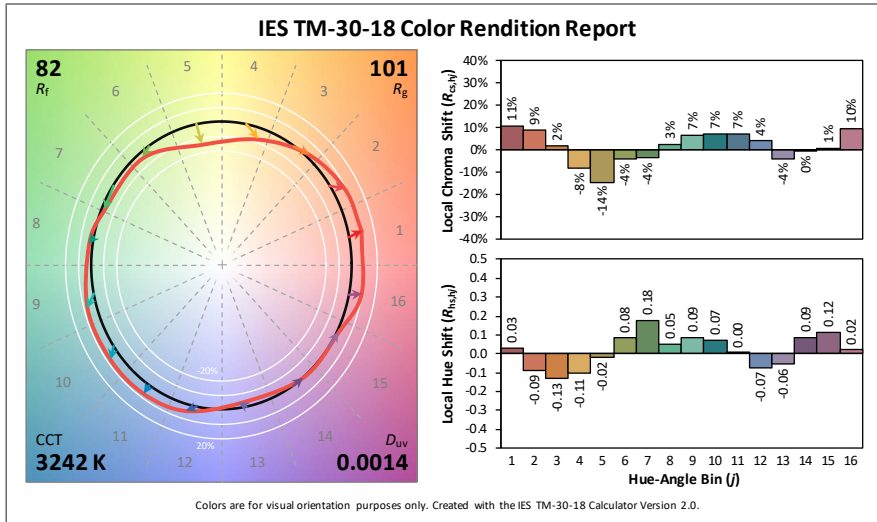The custom four-color blend of LEDs incorporates a hint of lime to increase spectral reach and color depth.
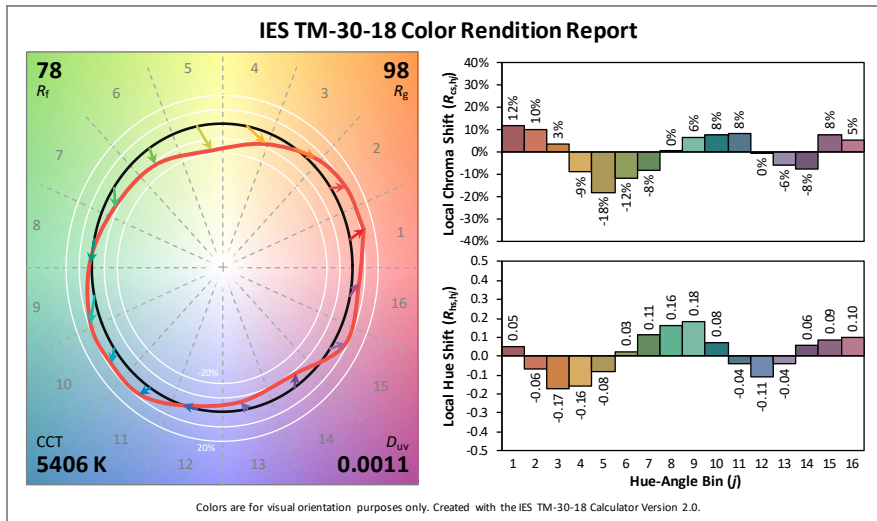


**SIMPLE USER INTERFACE**
The simple seven-segment display and navigation buttons enable quick setup and recall of built-in presets.

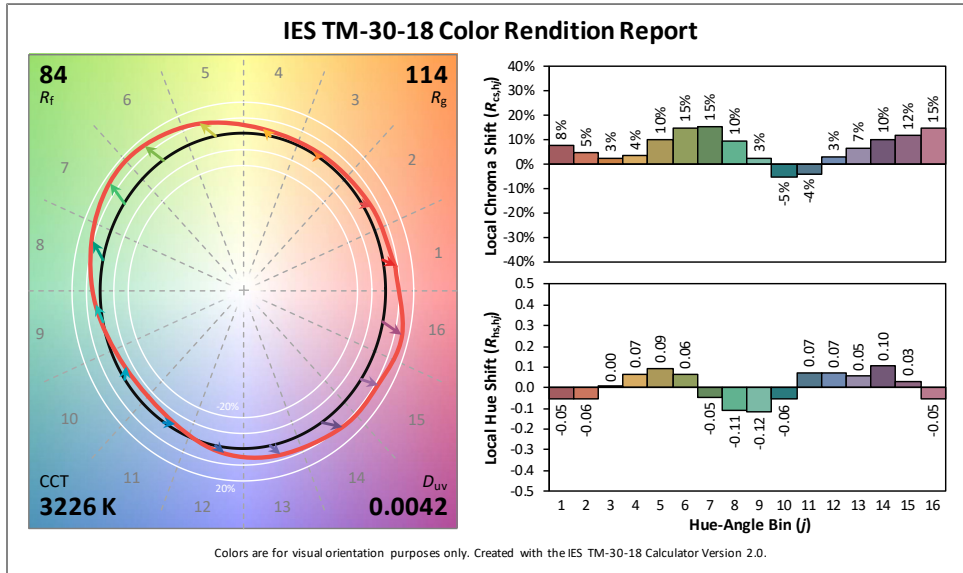## COLOR METRIC INFORMATION

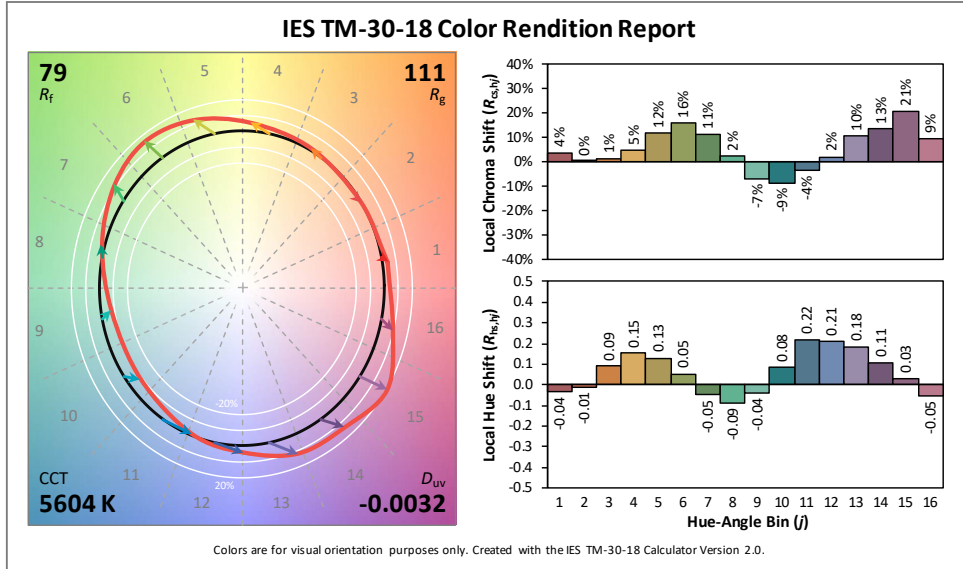### COLORSOURCE SPOT 3200 K TM-30-18



### COLORSOURCE SPOT 5600 K TM-30-18

## COLOR METRIC INFORMATION

### COLORSOURCE SPOT DEEP BLUE 3200 K TM-30-18



IES TM-30-18 Color Rendition Report

84 $R_f$    114 $R_g$

CCT 3226 K    $D_{uv}$ 0.0042

Colors are for visual orientation purposes only. Created with the IES TM-30-18 Calculator Version 2.0.

### COLORSOURCE SPOT DEEP BLUE 5600 K TM-30-18



IES TM-30-18 Color Rendition Report

79 $R_f$    111 $R_g$

CCT 5604 K    $D_{uv}$ -0.0032

Colors are for visual orientation purposes only. Created with the IES TM-30-18 Calculator Version 2.0.

## COLOR METRIC INFORMATION

# ColorSource Array options – Original vs. Deep Blue
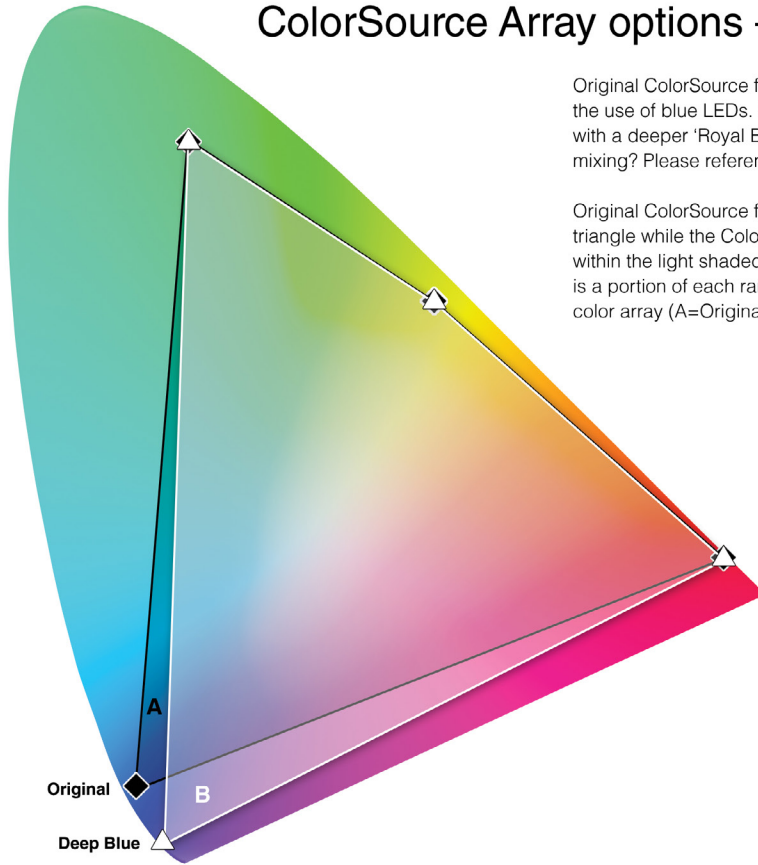
Original ColorSource fixtures use an RGB-L array where the 'B' represents the use of blue LEDs. ColorSource Deep Blue replaces those blue LEDs with a deeper 'Royal Blue' (indigo) LED. How does this impact your color mixing? Please reference the color chart.

Original ColorSource fixtures can reach any color within the dark shaded triangle while the ColorSource Deep Blue fixtures can reach any color within the light shaded triangle. While much of these areas overlap, there is a portion of each range that can only be reached by the respective color array (A=Original, B=Deep Blue).

**Common gels found in original ColorSource**
Roscolux 095, 075, 076
Lee 363, 119, 721, 722, 132, 141, 183, 172, 325

**Common gels found in ColorSource Deep Blue**
Roscolux 384, 385, 382, 059, 358, 347, 049, 349, 046, 124, 027, 120
Lee 126, 049, 798, 707, 181, 071, 120, 716

## PHOTOMETRY INFORMATION

### Degrees and Lumens

| DEGREE | MAXIMUM OUTPUT FIELD LUMENS | | DISTANCE TO ACHIEVE 50 FC | |
|---|---|---|---|---|
| | RGB-L | Deep Blue | RGBL | Deep Blue |
| 5 | 5,020 | 4,682 | 89.0 ft / 27.2 m | 89.0 ft / 27.2 m |
| 10 | 5,429 | 5,063 | 70.0 ft / 21.4 m | 69.5 ft / 21.2 m |
| 14 | 6,173 | 5,757 | 49.0 ft / 15.0 m | 49.0 ft / 15.0 m |
| 19 | 5,426 | 5,061 | 40.0 ft / 12.2 m | 40.0 ft / 12.2 m |
| 19 EDLT | 6,155 | 5,740 | 39.0 ft / 11.9 m | 38.7 ft / 11.8 m |
| 26 | 5,543 | 5,169 | 32.5 ft / 9.9 m | 32.5 ft / 9.9 m |
| 26 EDLT | 6,932 | 6,494 | 32.3 ft / 9.9 m | 32.3 ft / 9.9 m |
| 36 | 6,680 | 6,230 | 23.8 ft / 7.3 m | 23.6 ft / 7.2 m |
| 36 EDLT | 6,919 | 6,453 | 24.0 ft / 7.3 m | 24.0 ft / 7.3 m |
| 50 | 6,670 | 6,221 | 18.0 ft / 5.5 m | 17.8 ft / 5.4 m |
| 50 EDLT | 7,074 | 6,598 | 17.0 ft / 5.2 m | 16.9 ft / 5.2 m |
| 70 | 7,474 | 6,971 | 13.4 ft / 4.1 m | 13.4 ft / 4.1 m |
| 90 | 6,952 | 6,483 | 11.8 ft / 3.6 m | 11.7 ft / 3.6 m |
| 15-30 | 6,464 | 6,029 | 33.0 ft / 10.1 m | 33.0 ft / 10.1 m |
| 25-50 | 6,974 | 6,505 | 23.2 ft / 7.1 m | 23.2 ft / 7.1 m |

See *ColorSource Spot Photometry Guide,* available at etcconnect.com for full photometry information.

## ADDITIONAL ORDERING INFORMATION

### Fixture Accessories

| MODEL | DESCRIPTION | PART NUMBER | |
|-------|-------------|-------------|--|
| 400CC | C-clamp (not included with CE fixtures) | 7060A2009 (not CE) | |
| 400SC | Safety cable | 7060A1022 | |
| 400PH-A | Pattern holder (A size) (included) | 7060A1013 | |
| 400PH-B | Pattern holder (B size) | 7060A1014 | |
| 400PH-G | Glass pattern holder | 7060A1019 | |
| 400RS | Drop-In iris | 7060A1012 | |
| 400CF | Color frame (6.25 in) | 7060A3043 | |
| 407CF | Square color frame (7.50 in) | 7061A3007 | |
| 400DN | Donut | 7060A1015 | |
| 400TH | Top hat, 6.25 in/159 mm | PSF1021 | |
| 400PTH6 | Top hat, 7.5 in/191 mm | PSF1023 | |
| 410TH | Top hat, 12 in/305 mm (for 10° lens tubes) | PSF1024 | |
| 405TH | Top hat, 14 in/356 mm (for 5° lens tubes) | PSF1025 | |
| 400HH | Half hat | PSF10216 | |
| DPSJ-X | 25 ft powerCON-to-Edison input power cable with inline switch | 7400B7030 (not CE) | |

### Power Input Cables

Use information below to order 5 ft power input leads with factory-fitted connectors. CE fixtures ship with powerCON to bare end cables in the box.

| MODEL | DESCRIPTION | PART NUMBER | |
|-------|-------------|-------------|--|
| DPA-A | 5 ft powerCON to parallel blade U-ground (Edison) connector | 7410B7037-A (not CE) | |
| DPA-B | 5 ft powerCON to 20 A two-pin and ground (stage pin) connector | 7410B7037-B (not CE) | |
| DPA-C | 5 ft powerCON to grounded 20 A twistlock connector | 7410B7037-C (not CE) | |
| DPA-X | 5 ft powerCON to bare-end power input lead | 7410B7037-X (not CE) | |

### Power Thru Jumpers

Note: Power thru jumpers connect to a fixture's output (thru) connector to provide a link to successive fixtures.

| MODEL | DESCRIPTION | PART NUMBER | |
|-------|-------------|-------------|--|
| DPJ-5 | 5 ft powerCON-to-powerCON fixture-to-fixture jumper | 7410B7020 | |
| DPJ-10 | 10 ft powerCON-to-powerCON fixture-to-fixture jumper | 7410B7010 | |

### Diffusers

The Soft Focus Diffuser fits into a standard A-size pattern holder and delivers beautiful, homogenized light. You can also use the Soft Focus Diffuser with patterns for dappled and soft-edge projections.
The Smooth Wash Diffuser is used when extra-smooth blending of multiple ColorSource Spot luminaires is required. The smooth wash diffuser is placed into the gel-frame slot of the lens tube.

| MODEL | DESCRIPTION | PART NUMBER | |
|-------|-------------|-------------|--|
| S4LED-SFD | Soft Focus Diffuser (included) | 7460A4019 | |
| S4LED-SWD6 | Smooth Wash Diffuser for 6.25 in gel frame slots | 7460K1001 | |
| S4LED-SWD7 | Smooth Wash Diffuser for 7.5 in gel frame slots | 7460K1002 | |
| S4LED-SWD12 | Smooth Wash Diffuser for 10° lens tubes | 7460K1003 | |
| S4LED-SWD14 | Smooth Wash Diffuser for 5° lens tubes | 7460K1004 | |

### RJ45 to XLR Adapter Cables

| MODEL | DESCRIPTION | PART NUMBER | |
|-------|-------------|-------------|--|
| W6538 | RJ45 to female 5-pin XLR adapter (6 ft) | W6538 | |
| W6539 | RJ45 to male 5-pin XLR adapter (6 ft) | W6539 | |

## PREFERRED LENSING OPTIONS (Lenses sold separately)

### Fixed Beam Lenses

| MODEL | DESCRIPTION | PART NUMBER | |
|---|---|---|---|
| LED50LT | LED-specific 50° EDLT lens | 7460A2008 | |
| LED50LT-1 | LED-specific 50° EDLT (white) lens | 7460A2008-1 | |
| 436EDLT | 36° EDLT lens | 7060A2048 | |
| 436EDLT-1 | 36° EDLT (white) lens | 7060A2048-1 | |
| 426EDLT | 26° EDLT lens | 7060A2047 | |
| 426EDLT-1 | 26° EDLT (white) lens | 7060A2047-1 | |
| 419EDLT | 19° EDLT lens | 7060A2046 | |
| 419EDLT-1 | 19° EDLT (white) lens | 7060A2046-1 | |
| 490LT | 90° lens | 7060A2052-K | |
| 490LT-1 | 90° (white) lens | 7060A2052-1K | |
| 470LT | 70° lens | 7060A2051-K | |
| 470LT-1 | 70° (white) lens | 7060A2051-1K | |
| 414LT | 14° lens | 7060A2050-K | |
| 414LT-1 | 14° (white) lens | 7060A2050-1K | |
| 410LT | 10° lens | 7060A2001-K | |
| 410LT-1 | 10° (white) lens | 7060A2001-1K | |
| 405LT | 5° lens | 7060A2000-K | |
| 405LT-1 | 5° (white) lens | 7060A2000-1K | |

### Zoom Lens Assemblies

Use with light-engine body models.

| MODEL | DESCRIPTION | PART NUMBER | |
|---|---|---|---|
| 41530LT | Source Four 15°–30° Zoom lens | 7060A2030-K | |
| 42550LT | Source Four 25°–50° Zoom lens | 7060A2032-K | |

### LED Adapters

| MODEL | DESCRIPTION | PART NUMBER | |
|---|---|---|---|
| S4LEDCYC | LED CYC adapter | 7460A2011 | |
| S4LEDFRES | LED Fresnel adapter | 7460A2016 | |

## CONTROL

### DMX Input Channel Profiles

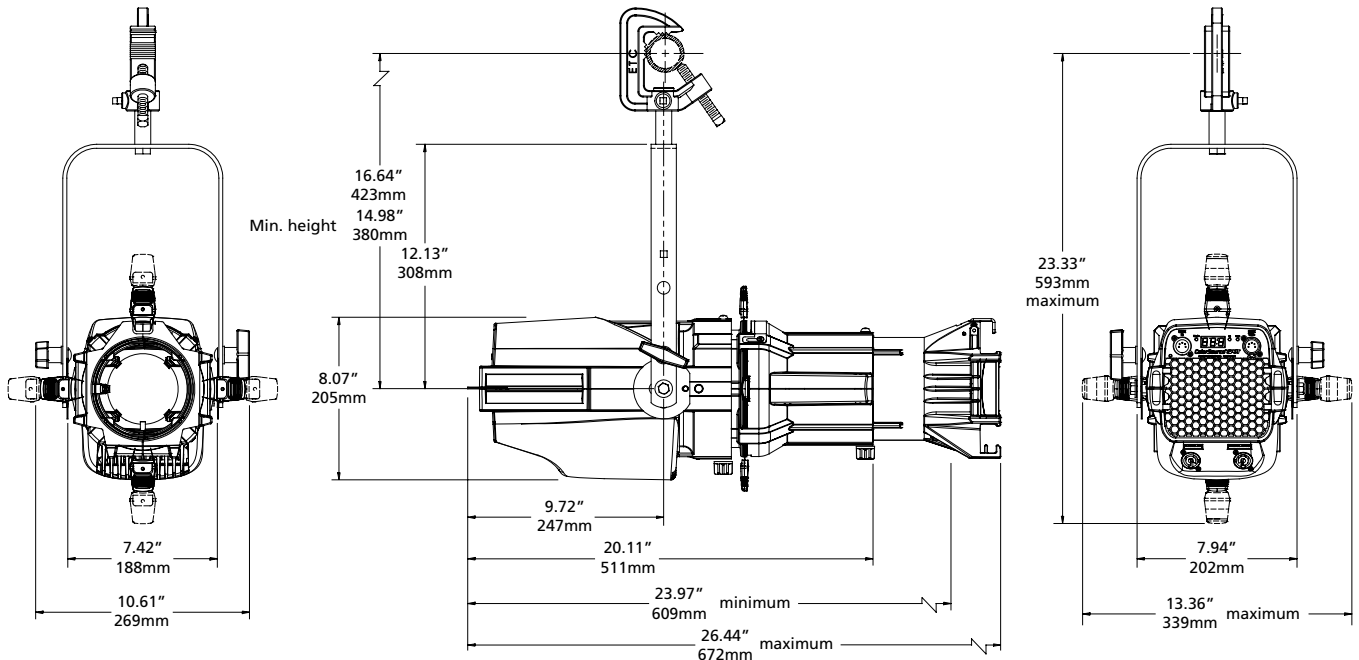| DMX PROFILE | DMX CHANNELS | CHANNEL ASSIGNMENTS | NOTES |
|---|---|---|---|
| 5ch (Default) | 5 | 1-Intensity<br>2-Red<br>3-Green<br>4-Blue<br>5-Strobe | Lime is mixed automatically. |
| RGB | 3 | 1-Red<br>2-Green<br>3-Blue | |
| 1ch | 1 | 1-Intensity | This mode controls the intensity of Preset 1. |
| Dir | 6 | 1-Intensity<br>2-Red<br>3-Green<br>4-Blue/Indigo*<br>5-Lime<br>6-Strobe | *Original ColorSource Spot fixture uses blue in channel 4;<br>Deep Blue ColorSource<br>Spot fixture uses indigo in channel 4. |

## PHYSICAL

### ColorSource Spot Weights

| | WEIGHT* | | SHIPPING WEIGHT | |
|---|---|---|---|---|
| | lb | kg | lb | kg |
| With Barrel | 17.0 | 7.7 | 22.0 | 10.0 |
| Without Barrel | 13.0 | 5.9 | 16.3 | 7.4 |

* Does not include mounting hardware or lens tube

### ColorSource Spot Dimensions

| | HEIGHT | | WIDTH | | DEPTH | |
|---|---|---|---|---|---|---|
| | in | mm | in | mm | in | mm |
| ColorSource Spot | 23.33 | 593 | 13.36 | 339 | 26.44 | 672 |



16.64"
423mm
14.98"
380mm
12.13"
308mm
Min. height
8.07"
205mm
7.42"
188mm
10.61"
269mm
9.72"
247mm
20.11"
511mm
23.97"  minimum
609mm
26.44"  maximum
672mm
23.33"
593mm
maximum
7.94"
202mm
13.36"  maximum
339mm

**etcconnect.com**