100V   115/120V   230/240V

GENERAL INFORMATION

ColorSource Linear combines the bright, bold output of the ColorSource family with a sleek linear design to create a versitile and affordable strip light. Whether being used to create a stunning wash of light on your stage or to light a wall, the ColorSource Linear uses ETC's unique RGB-L color system to provide beautiful LED lighting.

APPLICATIONS
- House of worship
- Universities and schools
- Hospitality
- Retail
- Exhibition centers
- Meeting rooms
- Clubs
- Cafetoriums

PRODUCT FEATURES
- ETC's RGB-L chipset (Red, Green, Blue and Lime)
  - Available in Original or Deep Blue
- Homogenized optics
- Simple user interface with seven-segment display
- PowerCon in and thru power connections
- DMX in and thru (5-pin XLR or RJ45)
- RDM or local configuration
- LED droop compensation for consistent output
- Optically calibrated
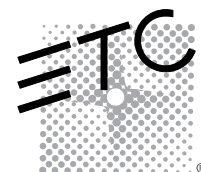- Tour-ready, aluminum housing

ORDERING INFORMATION

ColorSource Linear

MODEL	DESCRIPTION
CSLINEAR1	ColorSource Linear
CSLINEAR145	ColorSource Linear RJ45
CSLINEAR1DB	ColorSource Linear Deep Blue
CSLINEAR1DB45	ColorSource Linear Deep Blue RJ45

Color Options: Fixtures ship standard in black. For additional colors please use the below color code suffix:

-1 for white, -5 for silver or -8 for custom color.

Notes: ColorSource Linear luminaires ship with a pair of trunnions and a power cable with connector of choice. C-clamps are not included. See Power Input Cables on page 2 for connector options.

SPECIFICATIONS

GENERAL
- RGB-L chipset color-mixing wash luminaire with eight emmitters
- IP20-rated for indoor use
- Power- and DMX-in/thru connections for simple setup
- Seven-segment, three-button interface
- 12 onboard, customizable presets and five sequences

PHYSICAL
- Rugged, die-cast, aluminum housing
- Two secondary lens slots
- Available in black, white or silver
  - Custom colors available upon request (contact ETC)
- Trunnions included

ELECTRICAL
- 100VAC to 240VAC 50/60Hz universal power input
- PowerCon in and thru power connections
- Up to nine luminaires (15A max) may be linked via power thru connector
- Up to 10 luminaires total per circuit when used with ETC R20 relay module or Unison® Echo Relay Panel.
  - Consult breaker trip curves when used with other equipemnt
- Requires power from a non-dimmable source
- Inrush:
  - 120V: 35A (First half-cycle)
  - 240V: 49A (First half-cycle)
- ETL Listed to UL1573

LED*
- 20,000-hour LED life (at 70% intensity)
- 40 Luxeon® Z LED emitters (five per optic)

*See additional LED notes and photometrics on page 3

COLOR
- Exclusive RGB-L Color array
  - Also available in Deep Blue array
- Unparrallelled brightness and color range
- Droop compensation maintains color accuracy during use
- Optically calibrated to ensure consistency across fixture

OPTICAL
- Homoginized optics for a consistent, smooth beam
- Primary field angle of 24.9° and beam angle of 14.5°
- Secondary lenses available for multiple beam-spread options. Refer to accessories charts for lenses available

CONTROL
- DMX512 in and thru via five-pin XLR or RJ45 connectors (End-of-line termination required)
- RGB, IRGBS, Direct and single channel control (See DMX control table for additional information)
- 15-bit virtual dimming engine provides smooth, high-quality theatrical fades
- RDM support for address and setting changes
- Local control of presets (12) and sequences (5)

THERMAL
- Luminiare is designed for continuous operation up to 104°F (40°C) ambient temperature and requires free flow of air around fixture housingAmbient operating temperature of 32° to 104°F (0° to 40°C)
- Active electronic thermal management using variable-speed fan

ADDITIONAL ORDERING INFORMATION

Power Input Cables
Use information below to order 5' power input leads with factory-fitted connectors.

MODEL	DESCRIPTION
DPA-A	5ft PowerCon to parallel blade U-ground (Edison) connector
DPA-B	5ft PowerCon to 20A two-pin and ground (stage-pin) connector
DPA-C	5ft PowerCon to grounded 20A twistlock connector
DPA-X	5ft PowerCon to bare-end power input lead

Note: One cable of your choice is incldued with each fixture

Power-Thru Jumpers
Power thru jumpers connect to luminaire's output (thru) connector to provide power to a successive luminaire in-line

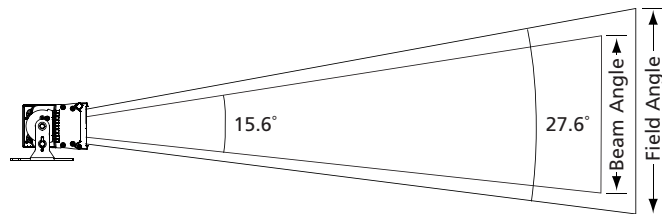| MODEL	DESCRIPTION
DPJ-5	5ft PowerCon to PowerCon fixture to fixture jumper
DPJ-10	10ft PowerCon to PowerCon fixture to fixture jumper

Luminaire Accessories

MODEL	DESCRIPTION
CSL1Y	ColorSource Linear 1 Yoke
CSL1DY	ColorSource Linear 1 Double-Yoke
CSLBD	ColorSource Linear barn door
CSLL	ColorSource Linear louver
400CC	C-Clamp (does not ship with fixture)
400SC	Safety Cable (32in)
DPSJ-25	25ft PowerCon to Edison input power cable with inline switch

PHOTOMETRICS

ColorSource Linear

Mode	Degree	Candela	Field Lumens	Beam Lumens	Power Consumption	Lumens Per Watt
Full / RGB	27.6	35,621	2,481	1,382	93.2	26.6
Full / Direct	27.6	37,616	2,611	1,439	104	25.1
3200K / RGB	27.6	33,601	2,363	1,330	78.9	29.9
5600K / RGB	27.6	35,269	2,461	1,387	93.9	26.2
Red / RGB	27.6	8,190	568	305	27.8	20.4
Green / RGB	27.6	11,073	699	366	30.4	23.0
Blue / RGB	27.6	3,369	225	121	32.9	32.9

Metric conversions: For meters, multiply feet by 0.3048
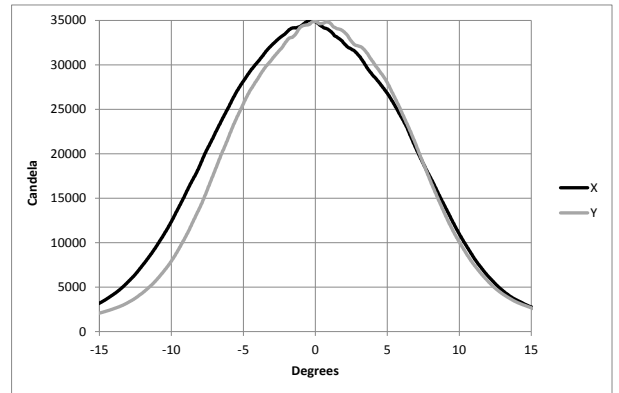For lux, multiply footcandles by 10.76

Candela Plot

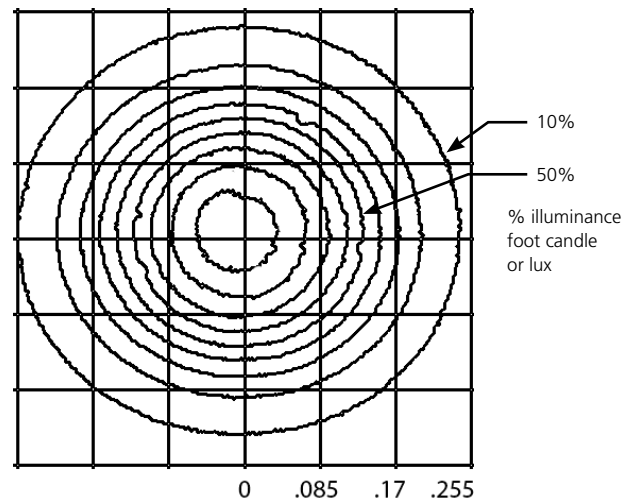| Throw Distance (d)	10ft 3.0m	15ft 4.6m	20ft 6.1m	25ft 7.6m	188.7ft 57.5m
Field Diameter	4.9ft 1.5m	7.4ft 2.2m	9.8ft 3.0m	12.3ft 3.7m	–
Illuminance (fc)	356	158	89	57	1
Illuminance (lux)	3,834	1,704	959	613	10.76

To determine center beam illumination in footcandles at any throw distance, divide candela by the throw distance squared

For field diameter at any distance, multiply distance by 0.491
For beam diameter at any distance, multiply by 0.274

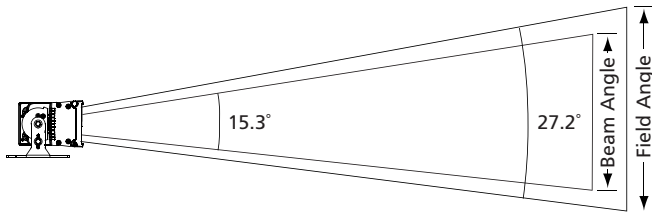### Iso-Illuminance Diagram
(Flat Surface Distribution)

10%
50%
% illuminance foot candle or lux

0   .085   .17   .255

PHOTOMETRICS

ColorSource Linear Deep Blue

Mode	Degree	Candela	Field Lumens	Beam Lumens	Power Consumption	Lumens Per Watt
Full / RGB	27.2	31,917	2,141	1,173	71.8	29.8
Full / Direct	27.2	36,097	2,429	1.329	101.7	23.9
3200K / RGB	27.2	35,356	2,366	1,296	77.5	30.5
5600K / RGB	27.2	31,760	2,126	1,165	71.6	29.7
Red / RGB	27.2	8,221	566	308	27.5	27.5
Green / RGB	27.2	11,022	675	354	30.3	30.3
Blue / RGB	27.2	27	81	44	31.2	31.2

Metric conversions: For meters, multiply feet by 0.3048
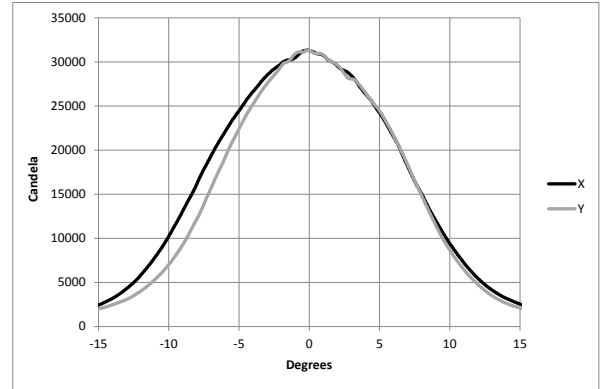For lux, multiply footcandles by 10.76

15.3°   27.2°

Beam Angle
Field Angle

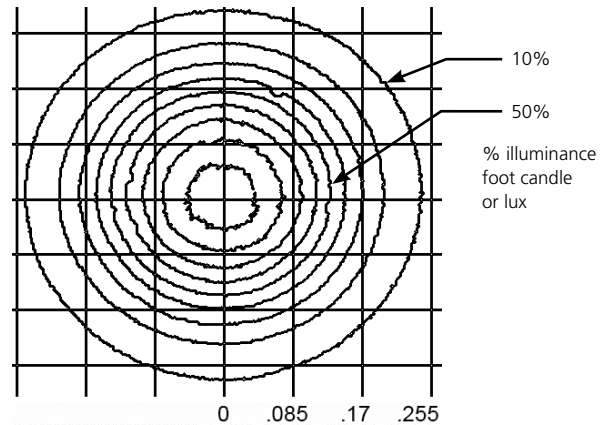| Throw Distance (d)	10ft 3.0m	15ft 4.6m	20ft 6.1m	25ft 7.6m	178.7ft 54.5m
Field Diameter	4.8ft 1.5m	7.3ft 2.2m	9.7ft 2.9m	12.1ft 3.7m	–
Illuminance (fc)	319	142	80	51	1
Illuminance (lux)	3,436	1,527	859	550	10.76

To determine center beam illumination in footcandles at any throw distance, divide candela by the throw distance squared

For field diameter at any distance, multiply distance by 0.484
For beam diameter at any distance, multiply by 0.269

Candela Plot

Iso-Illuminance Diagram
(Flat Surface Distribution)

10%

50%

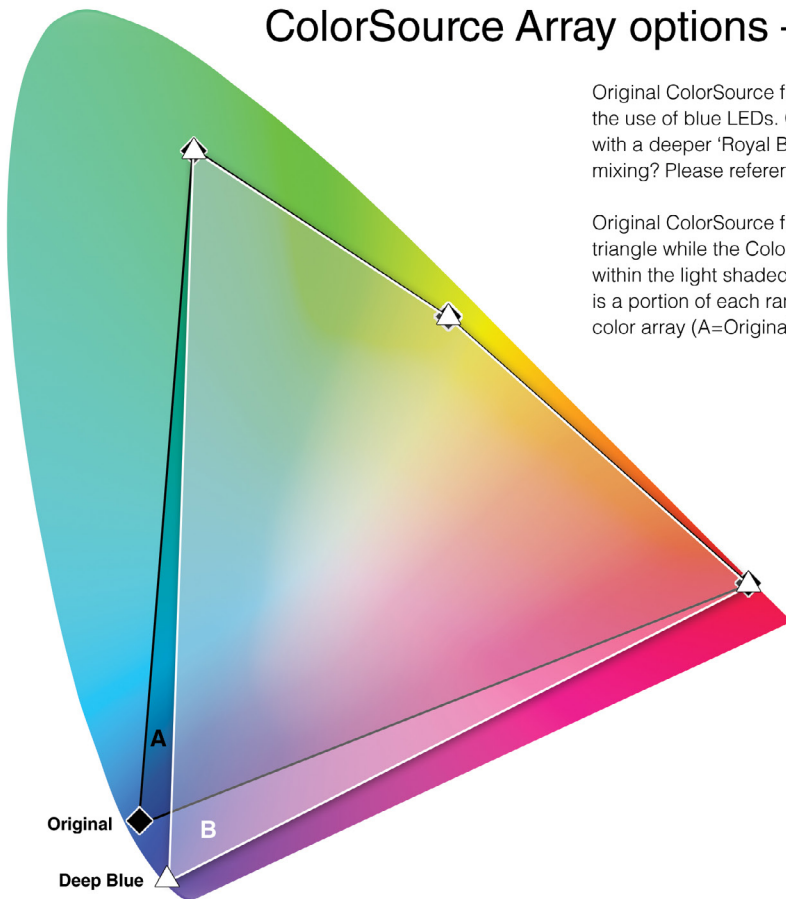% illuminance foot candle or lux

0   .085   .17   .255

COLORSOURCE LINEAR VS COLORSOURCE LINEAR DEEP BLUE

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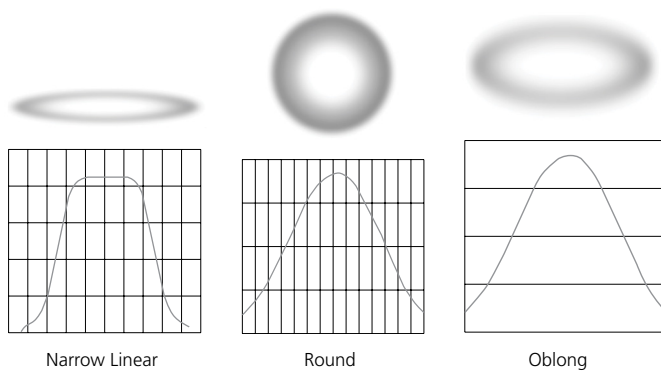
Common gels found in ColorSource Deep Blue
Roscolux 384, 385, 382, 059, 358, 347, 049, 349, 046, 124, 027, 120
Lee 126, 049, 798, 707, 181, 071, 120, 716

A

B

Original

Deep Blue

ADDITIONAL ORDERING INFORMATION

Secondary Lens Options

MODEL	DESCRIPTION: The following lenses are cut for ColorSource luminaires and create round, linear or oblong field patterns as described below. These lenses are not sized for use in Selador® Classic fixtures.	
HORIZONTAL		
CSLVNLH.5	Very Narrow Linear Horizontal lens	Linear lenses may be combined to create desired field size
CSLNLH.5	Narrow Linear Horizontal lens	
CSLMLH.5	Medium Linear Horizontal lens	
CSLWLH.5	Wide Linear Horizontal lens	
CSLXWLH.5	Extra Wide Linear Horizontallens	
VERTICAL		
CSLVNLV.5	Very Narrow Linear Vertical lens	
CSLNLV.5	Narrow Linear Vertical lens	
CSLMLV.5	Medium Linear Vertical lens	
CSLWLV.5	Wide Linear Vertical lens	
CSLXWLV.5	Extra Wide Linear Vertical lens	
ROUND		
CSLVNR.5	Very Narrow Round Lens	
CSLNR.5	Narrow Round Lens	
CSLMR.5	Medium Round Lens	
CSLWR.5	Wide Round Lens	
CSLXWR.5	Extra Wide Round Lens	

Typical Lens Field Profiles

Narrow Linear   Round   Oblong

Power Consumption at Full Intensity

MODEL	VOLTAGE (V)	CURRENT (A)	WATTS
ColorSource Linear	120 / 240	0.95 / 0.48	115 / 112
ColorSource Linear Deep Blue	120 / 240	0.92 / 0.46	110 / 108

NOTES ABOUT LED LUMINAIRES

All LED sources experience some lessening of light output and some color shift over time. LED output will vary with thermal conditions. Thermal conditions can be affected by ambient temperatures and orientation. Based on the LED manufacturer's B50 L70 specification, a ColorSource luminaire will achieve ~70% of its initial output after 20,000 hours of typical usage. In individual situations, LEDs will be used for different durations and at different levels. This can eventually lead to minor alterations in color performance, necessitating slight adjustments to presets, cues or programs.

CONTROL

DMX Input Channel Profiles

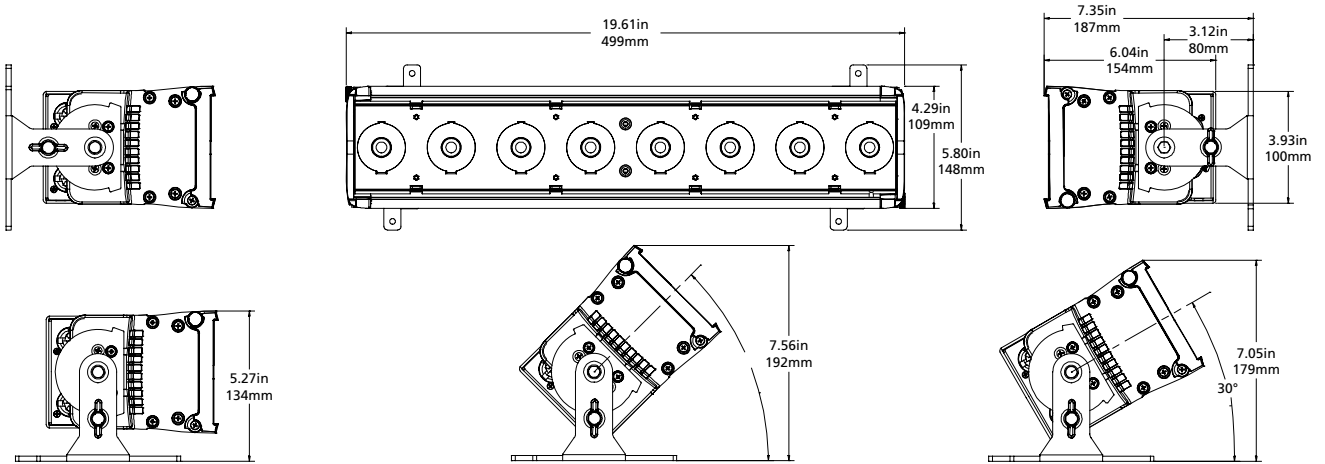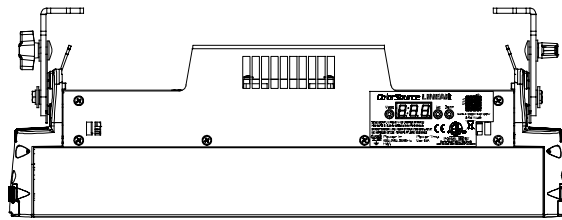| DMX Profile	DMX Channels	Channel Assignments	Notes
5ch-Default	5	1-INT 2-Red 3-Green 4-Blue 5-Strobe	
RGB	3	1-Red 2-Green 3-Blue	
1ch	1	1-INT	This mode controls the intensity of Preset 1
Direct	6	1-INT 2-Red 3-Green 4-Blue/Indigo* 5-Lime 6-Strobe	*Original ColorSource Linear fixture uses blue in channel 4; Deep Blue ColorSource Linear fixture uses indigo in channel 4.

PHYSICAL

ColorSource Linear Dimensions

HEIGHT		WIDTH		DEPTH	
inches	mm	inches	mm	inches	mm
3.93	100	19.61	499	7.36	183

* Does not include mounting hardware

ColorSource Linear Weights

WEIGHT*		SHIPPING WEIGHT	
lbs	kgs	lbs	kgs
6.40	2.90	7.90	3.58

* Does not include mounting hardware

This product is protected by one or more of the following U.S. Patents: 6,016,038, 6,150,774, 6,788,011, 6,806,659, 6,683,423 and 7,023,543