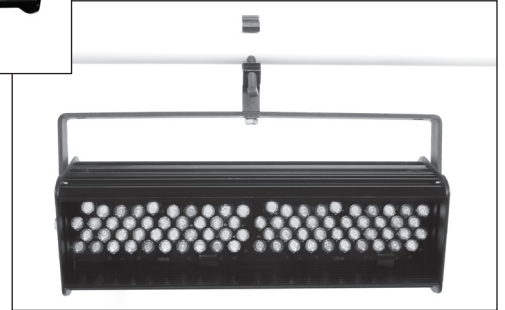




100V 115/120V 230/240V

selador series
by ETC



GENERAL INFORMATION

The Selador Series Vivid Fire LED fixture combines the strength of the x7 Color system with the power of LEDs to provide a highly efficient fixture for color washes at the red end of the spectrum. LEDs are used to their greatest potential – providing the deep saturated colors that designers need to color their stages at efficiencies much greater than a tungsten source with deep color gels. x7 Color system elements enable Vivid Fire to produce brilliant reds and red-oranges along with ambers, pinks and magentas. Vivid Fire and its companion Vivid Ice fixtures are ideal for stage and studio as a deep color tool in any lighting system.

APPLICATIONS

- Theaters
- Themed Entertainment
- TV/Film Studios
- Churches
- Schools

SUGGESTED APPLICATIONS

| VIVID FIRE MODEL | 11 | 21 |
|------------------|----|----|
| Side light | • | • |
| Fill light | • | • |
| Downlight | • | • |
| Backlight | • | • |
| Stagewash | • | • |

ORDERING INFORMATION

Selador Vivid Fire

| MODEL | DESCRIPTION |
|---------|-----------------------------------|
| SELVF11 | Selador Vivid Fire 11" (one cell) |
| SELVF21 | Selador Vivid Fire 21" (two cell) |

Note: Units ship with mounting bolts, parallel-blade, U-ground (Edison) pigtail (SPA-A) only. Power leads with alternate connectors and luminaire mounting hardware must be ordered separately. All secondary lenses must be ordered separately.

Power Lead Options

Use information below to order 5' leads with factory-fitted connectors:

| MODEL | DESCRIPTION |
|-------|--|
| SPA-X | PowerCon™ to bare-end pigtail |
| SPA-A | PowerCon™ to parallel blade U-ground pigtail |
| SPA-B | PowerCon™ to 20 amp 2-pin and ground (stage pin) pigtail |
| SPA-C | PowerCon™ to grounded 20 amp twistlock pigtail |

See page 2 for Selador Vivid Fire Accessories.



SPECIFICATIONS

GENERAL

- 2.5W color-mixing LED fixture
- Available in 11" and 21" lengths
- ETL rated for indoor dry location use

PHYSICAL

- Rugged all-metal extruded housing
- Advanced thermal management systems for long LED life
- Easy-access slots for secondary lenses
- Combine secondary lenses for desired horizontal and vertical beam spread
- Available in black (standard)
- Yoke (single and double, 11" and 21"), trunnion (floor stand), and hanging bracket mounting options

ELECTRICAL

- 100VAC to 240V 50/60 Hz universal power input
- Neutrik® PowerCon™ input connector
- 5' power lead (parallel-blade, U-ground) supplied (see page 1 for input connector options)
- Requires power from non-dim source
- Low-speed, low-noise cooling fan for thermal stability

LED*

- 50,000 hr. LED life
- 40 Luxeon® Rebel 2.5W LED emitters per cell

* See additional LED notes on page 3

COLOR

- Exclusive x7 Color System™ specialized 5-color LED array
- Fire – optimized for a full range of reds, red-oranges, ambers, yellows, magentas and pinks
- Interacts seamlessly with conventional sources

OPTICAL

- Native beam spread of approximately 28°
- Secondary lenses install in fixture front to change distribution of light
- Use a combination of vertical and horizontal lenses to spread light both directions
- Lenses must be ordered separately
- Refer to accessories for lenses available

CONTROL

- DMX512 in and thru via 5-pin XLR connectors
- 8 channel control (7 color plus intensity)
- Intensity channel minimizes color shift during dimming
- 15-bit internal control for smooth low-end dimming
- 21" fixture provides 2 independently controlled cells

THERMAL

- On-board fan speed control for no-noise operation except when required
- Ambient operating temperature of 32°-104°F (0°- 40°C)
- Fixture case can become extremely hot (approx. 85°C) under long-term, high-output, continuous usage
- Fixture is designed for continuous usage at 40°C ambient temperature. Requires free air flow around fixture.

POWER CONSUMPTION AT FULL INTENSITY

| MODEL | VOLTAGE (V) | CURRENT (A) | WATTS |
|-------------------------|-------------|-------------|-------------|
| Vivid Fire 11 (SELVF11) | 120 / 240 | 1.05 / 0.60 | 125W / 144W |
| Vivid Fire 21 (SELVF21) | 120 / 240 | 2.10 / 1.20 | 250W / 288W |

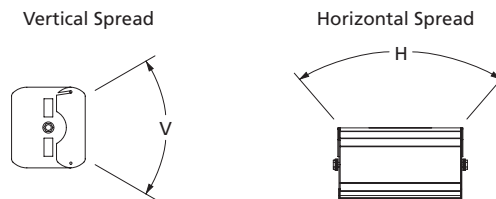
ADDITIONAL ORDERING INFORMATION

Continued from front page...

Selador Vivid Fire Accessories

| MODEL | DESCRIPTION |
|---------------|---|
| SELLH(degree) | 20°, 30°, 40°, 60°, or 80° Secondary Lens – Horizontal spread * See below |
| SELLV(degree) | 20°, 30°, 40°, 60°, or 80° Secondary Lens – Vertical spread * See below |
| SELYOKE11 | Yoke Kit for 11" unit with C-clamp and hardware |
| SELYOKE21 | Yoke Kit for 21" unit with C-clamp and hardware |
| SELDYOKE11 | Double Yoke Kit for 2-11" units with C-clamp and hardware |
| SELDYOKE21 | Double Yoke Kit for 2-21" units with C-clamp and hardware |
| SELTRU | Trunnion / Floor Stand Kit (set of 2 with hardware) |
| MPARHBK | Hanger Bracket Kit (set of 2 with C-clamps and hardware) |
| 400SC | Safety Cable (32-inch) |

Secondary Lenses



DMX CONTROL CHANNELS

| DATA CHANNEL | COLOR | VALUE | FUNCTION |
|--------------|-----------------------|--------------------------|--------------------------------|
| 1 | Luminaire Address | Red | 0-255 Intensity 0-100% |
| 2 | Luminaire Address + 1 | Red-Orange | 0-255 Intensity 0-100% |
| 3 | Luminaire Address + 2 | Amber | 0-255 Intensity 0-100% |
| 4 | Luminaire Address + 3 | Green | 0-255 Intensity 0-100% |
| 5 | Luminaire Address + 4 | Not used | — — |
| 6 | Luminaire Address + 5 | Not used | — — |
| 7 | Luminaire Address + 6 | Indigo | 0-255 Intensity 0-100% |
| 8 | Luminaire Address + 7 | Master Intensity Control | 0-255 Overall Intensity 0-100% |

Note: Use individual color channels to create color mix. Use Master Intensity Control to set luminaire intensity. Master Intensity Control (Channel 8) must be above 0% for luminaire to output.

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. With typical usage, a Selador luminaire will still achieve 70% of its initial output after 50,000 hours. 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 adjustment to presets, cues or programs.

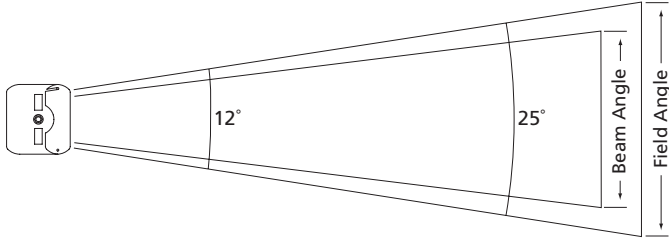
OUTPUT AND EFFICACY DATA FOR VARIOUS GEL COLORS

Output information for a Source Four PAR EA with 575W/115X HPL lamp is provided for each line of the listed gel colors for comparison.

| Gel | Field Lumens | Watts | Efficacy | Par Field Lumens | Par Efficacy |
|------------------------------------|--------------|-------|----------|------------------|--------------|
| R19 Fire | 1115 | 91.3 | 12.21 | 1193 | 2.07 |
| R22 Deep Amber | 1226 | 94.9 | 12.92 | 1641 | 2.85 |
| R25 Orange Red | 1049 | 89.7 | 11.69 | 1147 | 1.99 |
| R26 Light Red | 831 | 78 | 10.65 | 701 | 1.22 |
| R27 Med Red | 692 | 72.1 | 9.60 | 274 | 0.48 |
| R39 Skel. Exo. Sangria | 838 | 83.4 | 10.05 | 598 | 1.04 |
| R42 Deep Salmon | 1036 | 90.7 | 11.42 | 885 | 1.54 |
| R45 Rose | 1154 | 96.8 | 11.92 | 786 | 1.37 |
| R47 Light Rose Purp. | 869 | 63.8 | 13.62 | 460 | 0.80 |
| R49 Med. Purple | 599 | 67.1 | 8.93 | 259 | 0.45 |
| 3200K | | | | | |
| Full (all channels at 100%) | 1864 | 108 | 17.26 | 5322 | 9.26 |

PHOTOMETRICS

Photometric data taken with all channels at full. Data reflects the output of one 11" unit. See chart on page 2 for lumen and efficiency information in sample gel colors. Information for PAR fixtures with the same gel colors is presented for comparison. Due to the variability of all LEDs, output data and color matched should be viewed as approximate. Photometric data for individual lenses and lens combinations may be found at www.etcconnect.com/docs/docs_downloads/techdocs/Selador-Lens-Photometrics.xls



| | | | | |
|---------------------------|-------|-------|------|-------|
| Throw Distance (d) | 10' | 15' | 20' | 25' |
| | 3.0m | 4.6m | 6.1m | 7.6m |
| Field Diameter | 4.4' | 6.6' | 8.8' | 10.9' |
| | 1.3m | 2.0m | 2.7m | 3.3m |
| Illuminance (fc) | 273 | 121 | 68 | 44 |
| Illuminance (lux) | 2,939 | 1,306 | 735 | 470 |

Selador Vivid Fire

| Degree | Candela | Field Lumens | Beam Lumens | Lumens per Watt |
|--------|---------|--------------|-------------|-----------------|
| 25° | 27,300 | 1,370 | 660 | 12.7 |

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

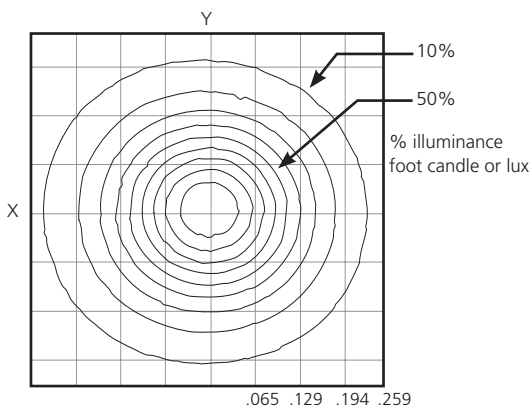
For illumination with any lamp, multiply the candlepower of a beam spread by the multiplying factor (mf) shown for that lamp.

To determine illumination in footcandles or lux at any throw distance, divide candlepower by distance squared.

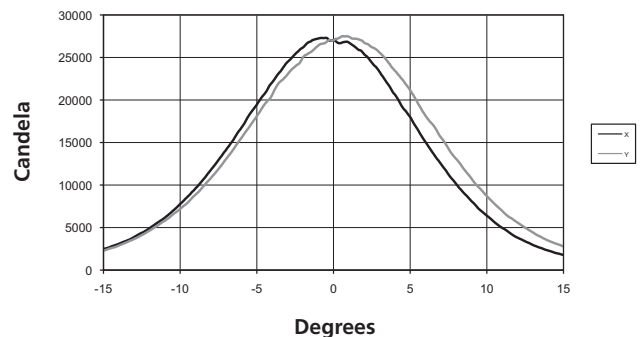
For Field diameter at any distance, multiply distance by .438

For Beam diameter at any distance, multiply distance by .210

Iso-Illuminance Diagram
(Flat Surface Distribution)



Cosine Candela Plot



*** Throw Distance Multiplier (TDM)

To determine the distance from the center of the beam (Origin) to a certain illuminance level at a particular distance, multiply the desired throw distance by the TDM desired on the Iso-Illuminance diagram.

Throw Distance (TD) x Throw Distance Multiplier (TDM) = Distance from the Origin (DfO) (distance from the center of the beam)

Example: 25 feet (TD) x 0.065 (TDM) = 1.625 feet from center of beam (DfO)

PHYSICAL

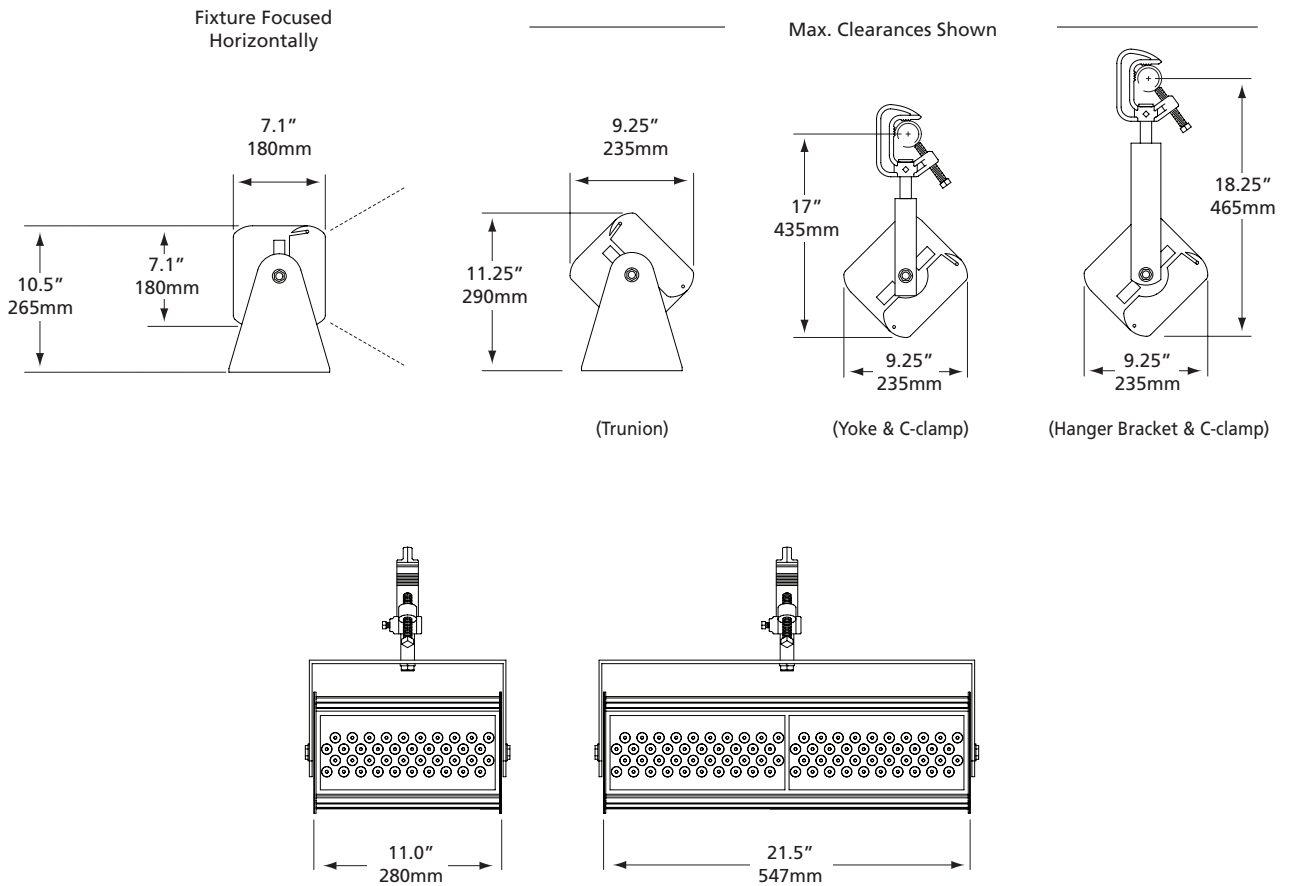
Selador Vivid Fire Dimensions & Weights

| MODEL | # OF LEDS | LENGTH | | HEIGHT | | DEPTH | |
|---------|-----------|--------|-----|--------|-----|-------|-----|
| | | in | mm | in | mm | in | mm |
| SELVF11 | 40 | 11.0 | 280 | 7.1 | 180 | 7.1 | 180 |
| SELVF21 | 80 | 21.5 | 547 | 7.1 | 180 | 7.1 | 180 |

| WEIGHT* | | SHIPPING WEIGHT | |
|---------|-----|-----------------|------|
| lbs | kgs | lbs | kgs |
| 11.5 | 5.2 | 15 | 6.9 |
| 20 | 9.1 | 25 | 11.4 |

40 Luxeon® Rebel 2.5W LEDs in each 11-inch (280-mm) length of fixture.

* Does not include mounting hardware





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