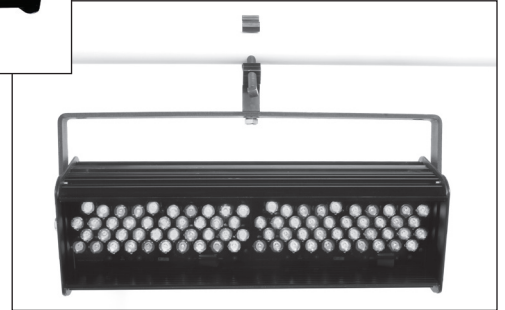




100V 115/120V 230/240V

selador series  
by ETC



GENERAL INFORMATION

The Selador Series Vivid Ice 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 blue end of the spectrum. LEDs are used to their greatest potential – providing the deep saturated colors that designers need to color their stages efficiencies much greater than a tungsten source with deep color gels. x7 Color system elements enable Vivid Ice to produce Congo-like indigos and a full range of warm blues, moonlight blues, teals, blue-greens and greens. Vivid Ice and its companion Vivid Fire 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 ICE MODEL	11	21
Side light	•	•
Fill light	•	•
Downlight	•	•
Backlight	•	•
Stagewash	•	•

ORDERING INFORMATION

Selador Vivid Ice

MODEL	DESCRIPTION
SELVI11	Selador Vivid Ice 11" (one cell)
SELVI21	Selador Vivid Ice 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 Ice 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
- Ice – optimized for a full range of blues, teals, lavenders and greens
- Interacts seamlessly with conventional sources

OPTICAL

- Native beam spread of approximately 26°
- 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
- 6 channel control (5 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 Ice 11 (SELV111)	120 / 240	1.05 / 0.60	125W / 144W
Vivid Ice 21 (SELV21)	120 / 240	2.10 / 1.20	250W / 288W

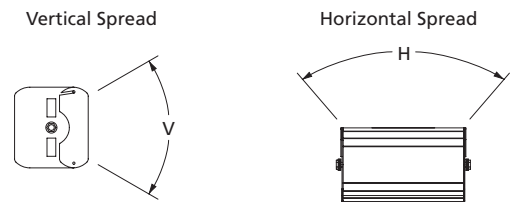
ADDITIONAL ORDERING INFORMATION

Continued from front page...

Selador Vivid Ice 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	Not used	—
3	Luminaire Address + 2	Not used	—
4	Luminaire Address + 3	Green	0-255 Intensity 0-100%
5	Luminaire Address + 4	Cyan	0-255 Intensity 0-100%
6	Luminaire Address + 5	Blue	0-255 Intensity 0-100%
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.

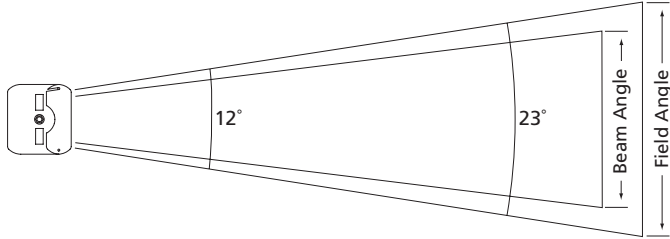
## OUTPUT AND EFFICACY DATA FOR VARIOUS GEL COLORS

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
<b>L181 Congo Blue</b>	415	65.8	6.31	26	.04
<b>R47 Lt. Rose Purple</b>	365	37.6	9.71	460	.80
<b>R49 Med. Purple</b>	170	28.8	5.90	259	.45
<b>R58 Deep Lavender</b>	445	42.6	10.45	571	.99
<b>R59 Indigo</b>	370	48.9	7.57	55	.10
<b>R64 Lt. Steel Blue</b>	775	53.1	14.60	1111	1.93
<b>R68 Parry Sky Blue</b>	1270	87.8	14.46	465	.81
<b>R73 Peacock Blue</b>	915	55.7	16.43	1524	2.65
<b>R76 Lt. Green Blue</b>	1145	71.2	16.08	286	.50
<b>R79 Bright Blue</b>	1285	95.6	13.44	310	.54
<b>R80 Primary Blue</b>	1250	92.7	13.48	268	.47
<b>R83 Medium Blue</b>	910	86	10.59	105	.18
<b>3200K</b>					
<b>Full (all channels at 100%)</b>	1350	108	12.67	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](http://www.etcconnect.com/docs/docs_downloads/techdocs/Selador-Lens-Photometrics.xls)



<b>Throw Distance (d)</b>	10'	15'	20'	25'
	3.0m	4.6m	6.1m	7.6m
<b>Field Diameter</b>	4.9'	7.3'	9.8'	12.2'
	1.5m	2.2m	3.0m	3.7m
<b>Illuminance (fc)</b>	284	126	71	45
<b>Illuminance (lux)</b>	3,057	1,359	764	489

Selador Vivid Ice

Degree	Candela	Field Lumens	Beam Lumens	Lumens per Watt
23°	28,400	1,350	670	12.5

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

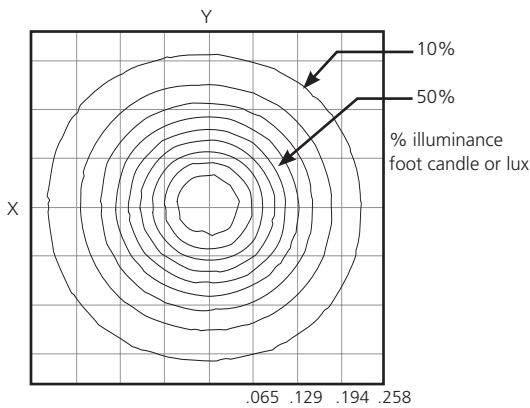
For illumination with any lamp, multiply the candlepower of a beam spread by the multiplying factor (mf) shown for that lamp.

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

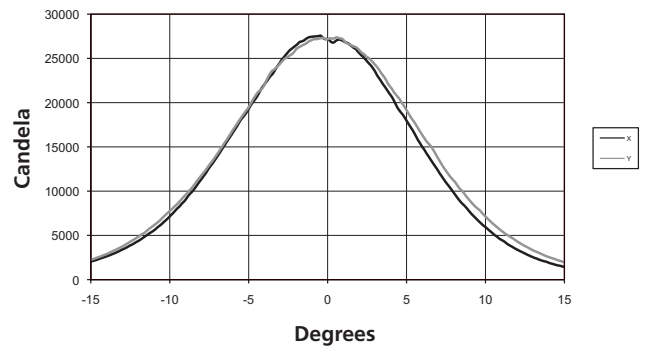
For Field diameter at any distance, multiply distance by .421

For Beam diameter at any distance, multiply distance by .207

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

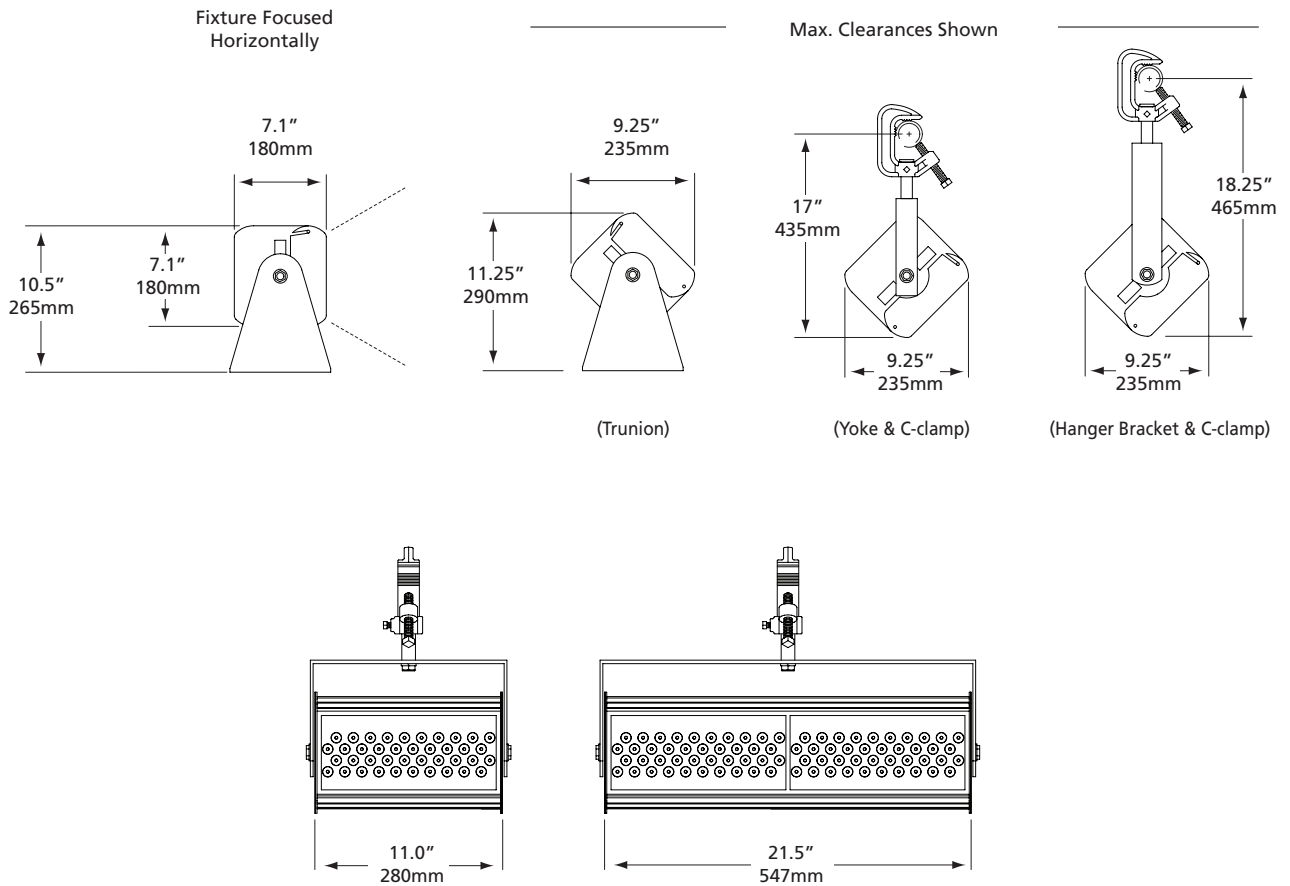
Selador Vivid Fire Dimensions & Weights

MODEL	# OF LEDS	LENGTH		HEIGHT		DEPTH	
		in	mm	in	mm	in	mm
SELVI11	40	11.0	280	7.1	180	7.1	180
SELVI21	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





**Corporate Headquarters** • 3031 Pleasant View Rd, PO Box 620979, Middleton WI 53562 0979 USA • Tel +1 608 831 4116 • Fax +1 608 836 1736

**London, UK** • Unit 26-28, Victoria Industrial Estate, Victoria Road, London W3 6UU, UK • Tel +44 (0)20 8896 1000 • Fax +44 (0)20 8896 2000

**Rome, IT** • Via Ennio Quirino Visconti, 11, 00193 Rome, Italy • Tel +39 (06) 32 111 683 • Fax +44 (0) 20 8752 8486

**Holzkirchen, DE** • Ohmstrasse 3, 83607 Holzkirchen, Germany • Tel +49 (80 24) 47 00-0 • Fax +49 (80 24) 47 00-3 00

**Hong Kong** • Room 1801, 18/F, Tower 1 Phase 1, Enterprise Square, 9 Sheung Yuet Road, Kowloon Bay, Kowloon, Hong Kong • Tel +852 2799 1220 • Fax +852 2799 9325

**Web** • [www.etcconnect.com](http://www.etcconnect.com) • Copyright©2010 ETC. All Rights Reserved. All product information and specifications subject to change. 7400L1014 Rev. B Printed in USA 07/10

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