



100V 115/120V 230/240V

selador series
by ETC



GENERAL INFORMATION

The Selador Series high power Vivid fixture is ideal for stage and studio lighting and can be used anywhere strong color and high intensity is required – producing the widest range of spectrally balanced saturated and tinted colors that lighting designers love. Vivid uses the x7 Color System™ to provide the deepest, purest colors teamed with high-power LEDs for incredible color punch. While maximized for high-brightness, deep color output, Vivid does not give up Selador Series’ unique ability to match warm, tungsten white light, vibrant daylight white, and soft, tinted gel colors.

APPLICATIONS

- Theaters
- TV/Film Studios
- Churches
- Hotels
- Convention Centers
- Schools

SUGGESTED APPLICATIONS

VIVID MODEL	11	21	42	63
Truss warmer	•			
Front light	•	•		
Side light	•	•		
Key light	•	•		
Fill light	•	•	•	
Specials	•	•		
Downlight	•	•	•	
Backlight	•	•	•	•
Stagewash	•	•	•	•
Cyc light	•	•	•	•

ORDERING INFORMATION

Selador Vivid

MODEL	DESCRIPTION
SELVI11	Selador Vivid 11" (one cell)
SELVI21	Selador Vivid 22" (two cell)
SELVI42	Selador Vivid 42" (four cell)
SELVI63	Selador Vivid 63" (six 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.

Connector Designation

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 two-pin and ground (stage pin) pigtail
SPA-C	PowerCon™ to grounded 20 amp twistlock pigtail

See page 2 for Selador Vivid Accessories.



SPECIFICATIONS

GENERAL

- 3.5W color-mixing LED fixture
- Available in 11", 21", 42", and 63" 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) and silver (special order)
- Yoke (11" and 21" only), trunnion (floor stand), and hanging bracket mounting options

ELECTRICAL

- 100VAC to 240VAC 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® K2 3.5W LED emitters per cell

* See additional LED notes on page 3

COLOR

- Exclusive x7 *Color System™* 7-color LED array
- Vivid – optimized for strong saturated colors at maximum brightness
- Interacts seamlessly with conventional sources
- Beautifully illuminates skin tones and other objects, for a natural appearance with high color rendering
- Strong saturated colors with maximum punch

OPTICAL

- Native tight beam spread of approximately 18°
- 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 control for smooth low-end dimming
- 21" fixture provides 2 independently controlled cells
- 42" fixture provides 4 independently controlled cells
- 63" fixture provides 6 independently controlled cells

THERMAL

- Ambient operating temperature of 34°-104°F (1°- 43°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 11 (SELV111)	120 / 240	1.35 / 0.74	162W / 178W
Vivid 21 (SELV21)	120 / 240	2.70 / 1.48	324W / 356W
Vivid 42 (SELV42)	120 / 240	5.40 / 2.96	648W / 712W
Vivid 63 (SELV63)	120 / 240	8.10 / 4.44	972W / 1,068W

ADDITIONAL ORDERING INFORMATION

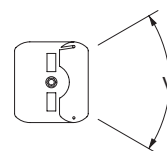
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Selador Vivid Accessories

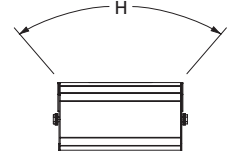
MODEL	DESCRIPTION
SELLH(degree)	20°, 30°, 40°, 50°, 60°, 70°, or 80° Secondary Lens – Horizontal dispersion
SELLV(degree)	20°, 30°, 40°, 50°, 60°, 70°, or 80° Secondary Lens – Vertical dispersion
SELYOKE11	Yoke Kit for 11" unit with C-clamp and hardware
SELYOKE21	Yoke Kit for 21" unit with C-clamp and hardware
SELDYOKE11	Double Yoke Kit for 11" unit with C-clamp and hardware
SELDYOKE21	Double Yoke Kit for 21" unit 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

Vertical Spread



Horizontal Spread



DMX CONTROL CHANNELS

DATA CHANNEL	COLOR	VALUE	FUNCTION
1	Luminaire Address	Red	Intensity 0-100%
2	Luminaire Address + 1	Red-Orange	Intensity 0-100%
3	Luminaire Address + 2	Amber	Intensity 0-100%
4	Luminaire Address + 3	Green	Intensity 0-100%
5	Luminaire Address + 4	Cyan	Intensity 0-100%
6	Luminaire Address + 5	Blue	Intensity 0-100%
7	Luminaire Address + 6	Indigo	Intensity 0-100%
8	Luminaire Address + 7	Master Intensity Control	Overall Intensity 0-100%

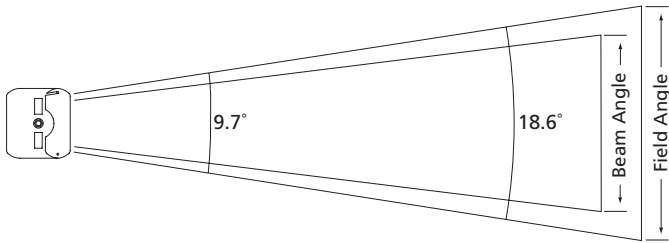
Note: Use individual color channels to create color mix. Use Master Intensity Control to set luminaire intensity. Master Intensity Control (Channel 8) must be above 0% for luminaire to output.

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.

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	3.3'	4.9'	6.6'	8.2'
	1.0m	1.5m	2.0m	2.5m
Illuminance (fc)	368	164	92	59
Illuminance (lux)	3,963	1,761	991	634

Selador Vivid

Degree	Candela	Field Lumens	Beam Lumens	Lumens per Watt
18°	36,820	1,125	609	9.2

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

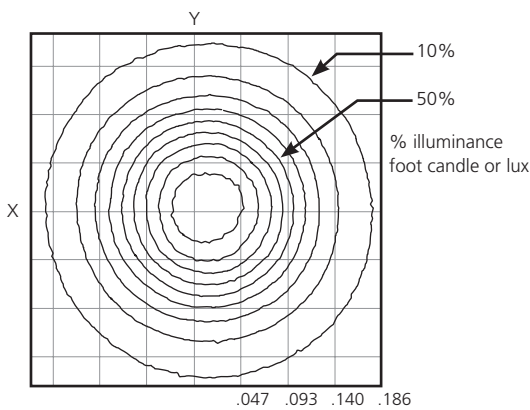
For illumination with any lamp, multiply the candlepower of a beam spread by the multiplying factor (mf) shown for that lamp.

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

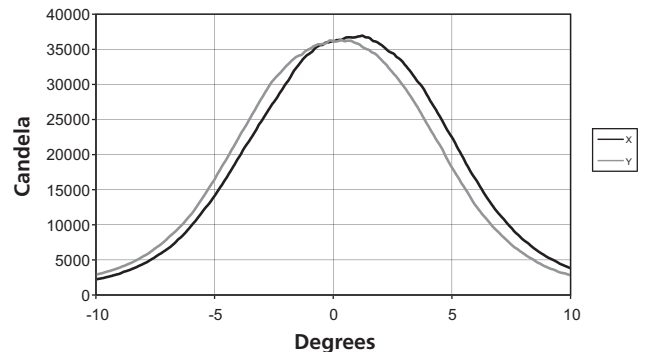
For Field diameter at any distance, multiply distance by .328

For Beam diameter at any distance, multiply distance by .170

**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 0.047 (TDM) = 1.175 feet from center of beam (Dfo)



OUTPUT AND EFFICACY DATA FOR VARIOUS GEL COLORS

Output information for a Source Four PAR EA with 750W HPL lamp is provided for each line of the listed gel colors for comparison.

Gel	Field Lumens	Watts	Efficacy	Par Field Lumens	Par Efficacy
Apollo 5300 Apollo Green	342	50	6.8	270	0.4
Apollo 6300 Neon Yellow	585	61	9.6	8200	10.9
Apollo 7570 Trick or Treat	812	72	11.3	3620	4.8
Gam 245 Light Red	349	39	9.0	1370	1.8
Gam 250 Medium Red XT	205	31	6.6	780	1.0
Gam 945 Royal Purple	318	66	4.8	110	0.1
Lee 116 Medium Blue Green	303	49	6.2	1250	1.7
Lee 344 Violet	922	102	9.0	1790	2.4
Lee 345 Fuchsia Pink	983	100	9.8	1430	1.9
Rosco 343 Neon Pink	608	58	10.5	2800	3.7
Rosco 80 Primary Blue	471	86	5.5	460	0.6
Rosco 382 Congo Blue Deep	180	55	3.3	55	0.1
3200K	871	86	10.1	9500	12.7
Full (all channels at 100%)	1125				

PHYSICAL

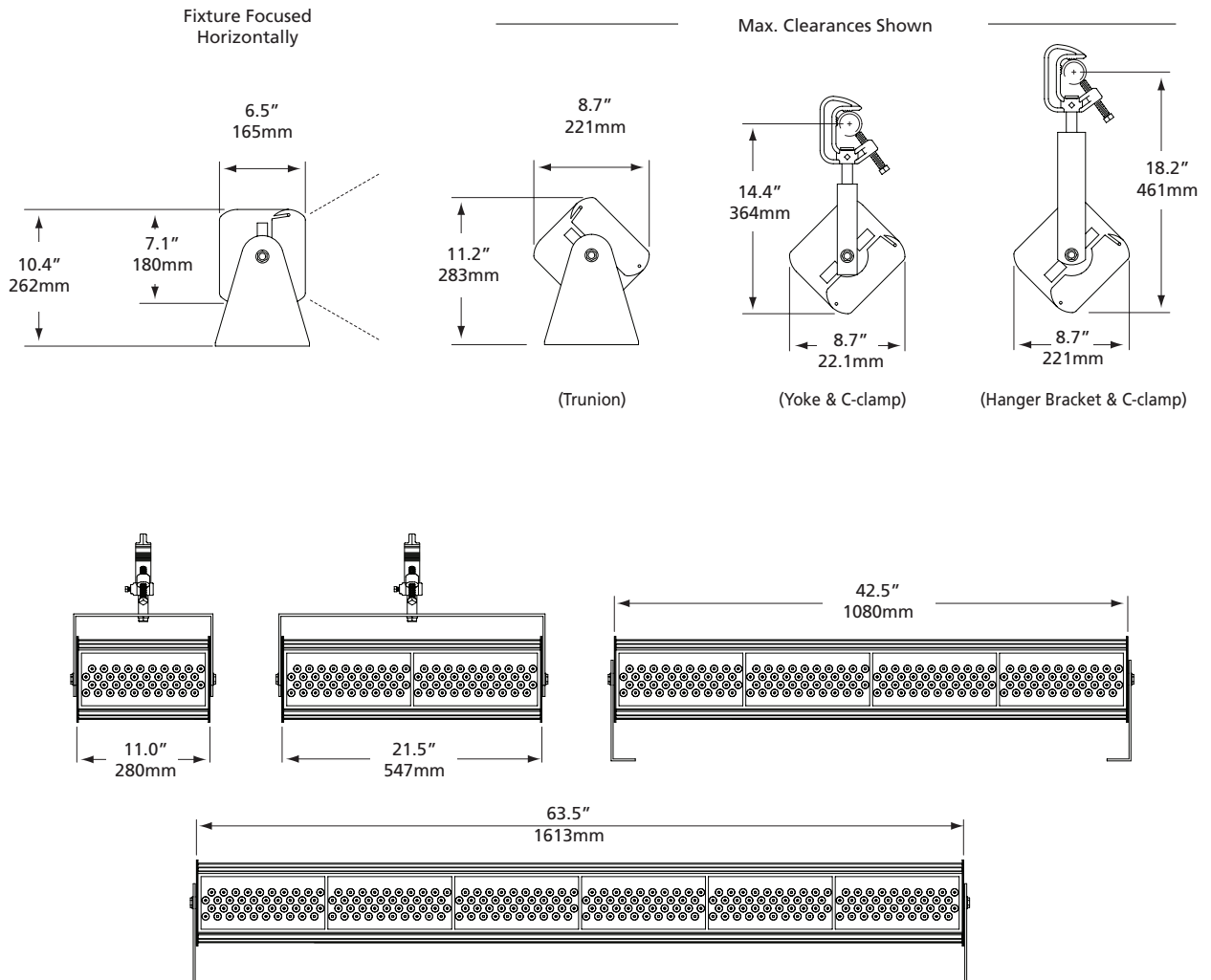
Selador Vivid Dimensions & Weights

MODEL	# OF LEDS	LENGTH		HEIGHT		DEPTH	
		in	mm	in	mm	in	mm
SELVI11	40	11.0	280	7.1	180	6.5	165
SELVI21	80	21.5	547	7.1	180	6.5	165
SELVI42	160	42.5	1080	7.1	180	6.5	165
SELVI63	240	1613	7.1	180	6.5	165	

WEIGHT*		SHIPPING WEIGHT	
lbs	kgs	lbs	kgs
11.5	5.2	15	6.9
20	9.1	25	11.4
35	15.9	42	19.1
53	24.1	62	28.2

40 Luxeon® Rebel 3.5W LEDs in each 11-inch (280-mm) length of fixture.

* Does not include mounting hardware



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