

100V 115/120V 230/240V

**selador series**  
by ETC



**GENERAL INFORMATION**

Selador Classic™ Pearl uses the power of white LEDs to provide a highly efficient fixture for video and event production. A carefully chosen array of 3200K warm-white LEDs and 5600K cool-white LEDs allows the user to create the appropriate high-intensity white light needed for any on-camera or general-area lighting situation. The mix of warm- and cool-white LEDs provides tunable white light that is maximized for brightness across a broad CCT range. Selador's unmatched system of horizontal and vertical spread lenses lets you create the field size you need for any application.

**APPLICATIONS**

- Broadcast lighting
- Press events
- Location lighting
- General area lighting

**ORDERING INFORMATION**

**Selador Classic Pearl**

MODEL	DESCRIPTION
SELPE11	Selador Pearl 11" (one cell)
SELPE21	Selador Pearl 21" (two cell)
SELPE42	Selador Pearl 42" (four cell)
SELPE63	Selador Pearl 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.

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

See page 2 for Selador Pearl accessories.



## SPECIFICATIONS

## GENERAL

- 40 x 2.5W adjustable-white LED luminaire
- 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 240V 50/60Hz 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-hour LED life
- 40 Luxeon® Rebel 2.5W LED emitters per cell

\* See additional LED notes on page 3

## COLOR

- Optimized for the brightest white light with variable warm- and cool-white LEDs for color temperature adjustments
- Color rendering as high as 90 CRI
- Interacts seamlessly with conventional sources
- Ideal for studio, video, and location work where high-brightness white light with low power consumption is desired.

## OPTICAL

- Native tight field angle of 17°
- Secondary lenses install in the front of the fixture to change distribution of light
- Use a combination of vertical and horizontal lenses to spread light in both directions
- Lenses must be ordered separately
- Refer to accessories for lenses available

## CONTROL

- DMX512 in and thru via five-pin XLR connectors
- Three-channel control: Warm White, Cool White, Master Intensity
- Intensity channel maintains a constant color temperature during dimming
- 15-bit internal control for smooth low-end dimming
- 21" fixture provides two independently controlled cells
- 42" fixture provides four independently controlled cells
- 63" fixture provides six independently controlled cells

## THERMAL

- Ambient operating temperature of 32° to 104°F (0° to 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
Pearl 11 (SELPE11)	120 / 240	1.05 / 0.60	125W / 144W
Pearl 21 (SELPE21)	120 / 240	2.10 / 1.20	250W / 288W
Pearl 42 (SELPE42)	120 / 240	4.20 / 2.40	500W / 576W
Pearl 63 (SELPE63)	120 / 240	6.30 / 3.60	750W / 864W

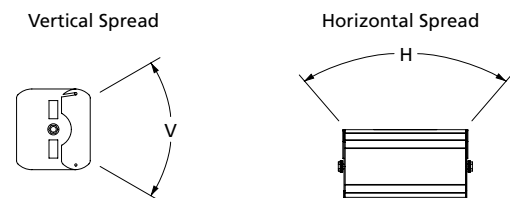
## ADDITIONAL ORDERING INFORMATION

Continued from front page...

## Selador Classic Pearl 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 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 two with hardware)
MPARHBK	Hanger Bracket Kit (set of two with C-clamps and hardware)
400SC	Safety Cable (32-inch)

## Secondary Lenses



## DMX CONTROL CHANNELS

DATA CHANNEL	COLOR	VALUE	FUNCTION
1	Luminaire Address	Warm white (3200K)	0-255 Intensity 0-100%
2	Luminaire Address + 1	Cool White (5600K)	0-255 Intensity 0-100%
3	Luminaire Address + 2	Master Intensity Control	0-255 Overall Intensity 0-100%

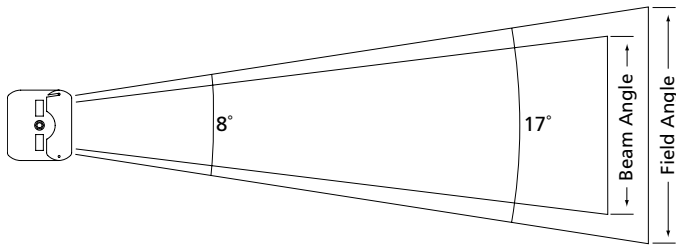
Note: Use individual color channels to create desired white-light color balance. Use Master Intensity Control to set luminaire intensity. Master Intensity Control (Channel 3) must be above 0% for luminaire to output.

**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 adjustments 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 matching 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)



Throw Distance (d)	10' 3.0m	15' 4.6m	20' 6.1m	25' 7.6m
Field Diameter	3.1' .9m	4.6' 1.4m	6.1' 1.9m	7.6' 2.3m
Illuminance (fc)	1,391	618	348	223
Illuminance (lux)	14,973	6,654	3743	2396

Selador Pearl

Degree	Candela	Field Lumens	Beam Lumens	Lumens per Watt
17°	139,100	3,460	1720	32.0

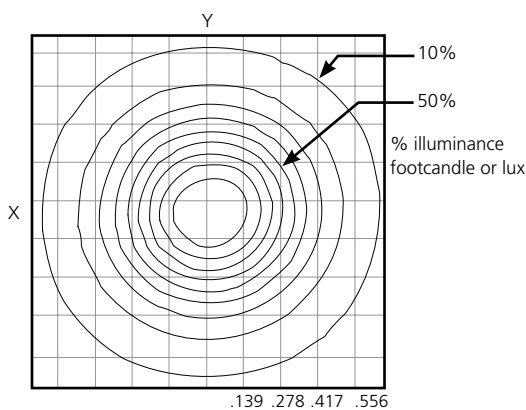
Metric Conversions: For Meters multiply feet by 0.3048  
For Lux multiply footcandles by 10.76

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

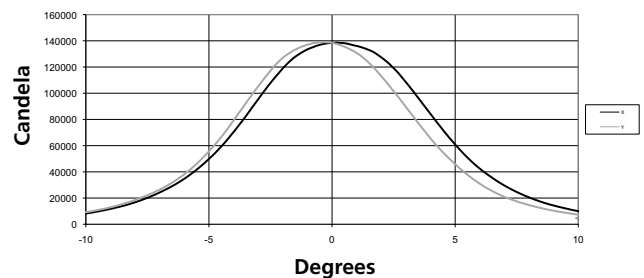
For Field diameter at any distance, multiply distance by 0.306

For Beam diameter at any distance, multiply distance by 0.145

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 necessary 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 0.139 (TDM) = 3.475 feet from center of beam (DfO)

## CONTROL SETTINGS FOR OUTPUT AT VARIOUS COLOR TEMPERATURES

Color Temperature	Channel 1 (3000K)	Channel 2 (5600K)	Channel 3 (Master Intensity)
3200K	100%	0%	0% to 100% Output values reflect 100% intensity level
3400K	100%	7%	
3600K	100%	17%	
3800K	100%	26%	
4000K	100%	39%	
4200K	100%	54%	
4400K	100%	72%	
4600K	100%	96%	
4800K	83%	100%	
5000K	63%	100%	
5200K	48%	100%	
5400K	35%	100%	
5600K	25%	100%	
5800K	16%	100%	

PHYSICAL

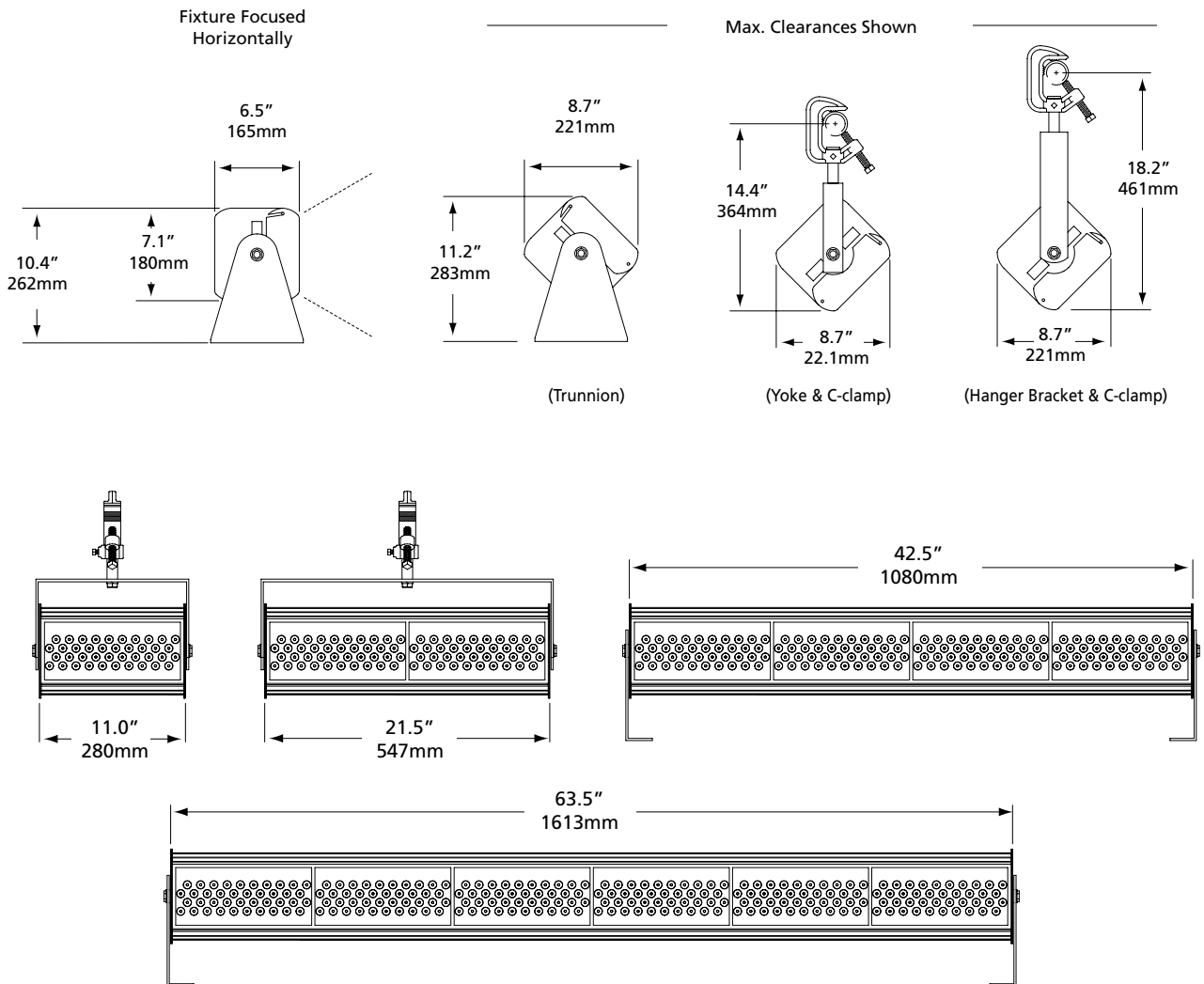
Selador Pearl Dimensions & Weights

MODEL	# OF LEDS	LENGTH		HEIGHT		DEPTH	
		in	mm	in	mm	in	mm
SELPE11	40	11.0	280	7.1	180	6.5	165
SELPE21	80	21.5	547	7.1	180	6.5	165
SELPE42	160	42.5	1080	7.1	180	6.5	165
SELPE63	240	63.5	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 2.5W LEDs in each 11-inch (280-mm) fixture length.

\* Does not include mounting hardware



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