ETC

paletta™

selador series by ETC

GENERAL INFORMATION

The Selador Series medium power, low-profile Paletta fixture is ideal for stage and studio lighting as side light, down light, fill light or cyc lighting – producing the widest range of spectrally balanced saturated and tinted colors that lighting designers love. The Paletta fixture uses the *x7 Color System*™ configured for the deepest, purest colors and tints available. The exclusive 7-color array maximizes Paletta for deep color output but does not give up Selador Series' unique ability to match match warm, tungsten white light, vibrant daylight white, and soft, tinted gel colors.

APPLICATIONS
- Theaters
- Studios
- Churches
- Hotels
- Convention Centers
- Schools

SUGGESTED APPLICATIONS

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

ORDERING INFORMATION

Selador Paletta

MODEL	DESCRIPTION
SELPA11	Selador Paletta 11" (one cell)
SELPA21	Selador Paletta 22" (two cell)
SELPA42	Selador Paletta 42" (four cell)
SELPA63	Selador Paletta 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 2-pin and ground (stage pin) pigtail
SPA-C	PowerCon™ to grounded 20 amp twistlock pigtail

See page 2 for Selador Paletta Accessories.

ETC

SPECIFICATIONS

GENERAL
- 2.5W 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® Rebel 2.5W LED emitters per cell

* See additional LED notes on page 3

COLOR
- Exclusive *x7 Color System*™ 7-color LED array
- Palleta – optimized for strong saturated colors
- Interacts seamlessly with conventional sources
- Deep, vibrant jewel tones and rich pastels

OPTICAL
- Native tight 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
- 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
- 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
Paletta 11 (SELPA11)	120 / 240	0.90 / 0.50	108W / 120W
Paletta 21 (SELPA21)	120 / 240	1.80 / 1.00	216W / 240W
Paletta 42 (SELPA42)	120 / 240	3.60 / 2.00	432W / 480W
Paletta 63 (SELPA63)	120 / 240	5.40 / 3.00	648W / 720W

ADDITIONAL ORDERING INFORMATION

Selador Paletta Accessories

MODEL	DESCRIPTION
SELLH(degree)	20°, 30°, 40°, 50°, 60°, 70°, or 80° Secondary Lens – Horizontal spread * See below
SELLV(degree)	20°, 30°, 40°, 50°, 60°, 70°, 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 2 with hardware)
MPARHBK	Hanger Bracket Kit (set of 2 with C-clamps and hardware)
400 SC	Safety Cable (32-inch)

Secondary Lenses

Vertical Spread   Horizontal Spread

ETC

paletta™

selador series by ETC
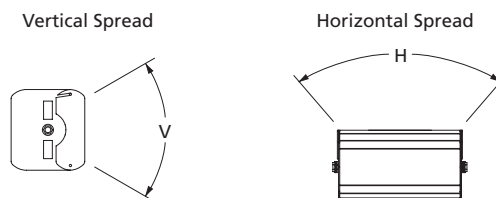
DMX CONTROL CHANNELS

| 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	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.

ETC

paletta™

selador series by ETC

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

13.2°   25.7°   Beam Angle   Field Angle
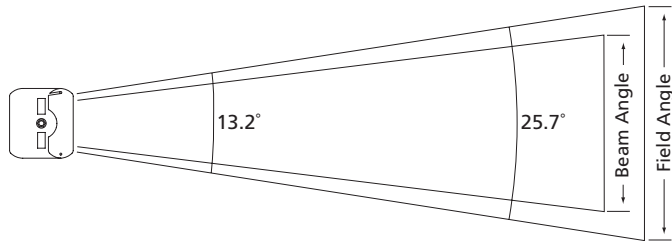
Throw Distance (d)	10' 3.0m	15' 4.6m	20' 6.1m	25' 7.6m
Field Diameter	4.6' 1.4m	6.8' 2.1m	9.1' 2.8m	11.4' 3.5m
Illuminance (fc)	191	85	48	30
Illuminance (lux)	2,051	911	513	328

Selador Paletta

Degree	Candela	Field Lumens	Beam Lumens	Lumens per Watt
25°	19,050	1,111	565	15.9

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.
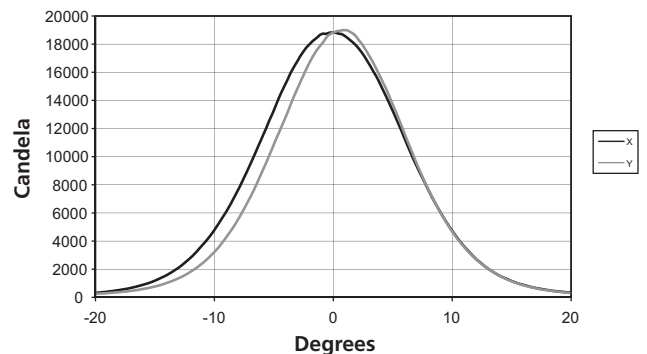
For Field diameter at any distance, multiply distance by .456

For Beam diameter at any distance, multiply distance by .231

Iso-Illuminance Diagram
(Flat Surface Distribution)

Y

10%

50%

% illuminance foot candle or lux

X

.139 .278 .417 .556
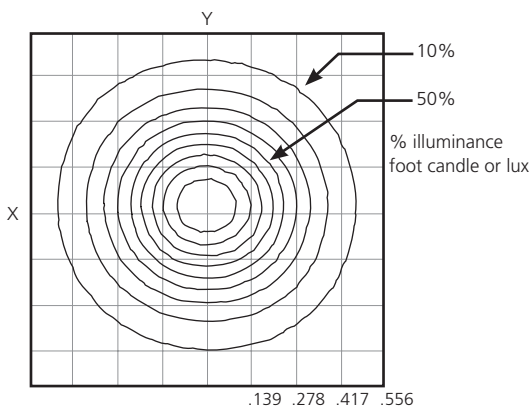
Cosine Candela Plot

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

ETC

paletta™

selador series by ETC

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	564	38	14.8	270	0.4
Apollo 6300 Neon Yellow	638	44	14.5	8200	10.9
Apollo 7570 Trick or Treat	442	39	11.3	3620	4.8
Gam 245 Light Red	235	28	8.4	1370	1.8
Gam 250 Medium Red XT	165	24	6.9	780	1.0
Gam 945 Royal Purple	235	35	6.7	110	0.1
Lee 116 Medium Blue Green	560	39	14.4	1250	1.7
Lee 344 Violet	1079	68	15.9	1790	2.4
Lee 345 Fuchsia Pink	782	54	14.5	1430	1.9
Rosco 343 Neon Pink	510	44	11.6	2800	3.7
Rosco 80 Primary Blue	460	41	11.2	460	0.6
Rosco 382 Congo Blue Deep	121	21	5.8	55	0.1
3200K	1008	60	16.8	9500	12.7
Full (all channels at 100%)	1111				

ETC

paletta™
selador series by ETC

PHYSICAL

Selador Paletta Dimensions & Weights

MODEL	# OF LEDS	LENGTH		HEIGHT		DEPTH		WEIGHT*		SHIPPING WEIGHT	
		in	mm	in	mm	in	mm	lbs	kgs	lbs	kgs
SELPA11	40	11.0	280	7.1	180	5.0	127	10.5	4.7	14	6.4
SELPA21	80	21.5	547	7.1	180	5.0	127	18	8.2	23	10.5
SELPA42	160	42.5	1080	7.1	180	5.0	127	32	14.6	39	17.7
SELPA63	240	63.5	1613	7.1	180	5.0	127	48.6	22.1	58	26.4

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

* Does not include mounting hardware

Fixture Focused Horizontally

Max. Clearances Shown

5.0" 127mm

7.6" 193mm

7.1" 180mm   5.9" 150mm

10.4" 262mm

11.2" 283mm

13.6" 344mm

18.2" 461mm

7.6" 193mm

7.6" 193mm

(Trunion)

(Yoke & C-clamp)

(Hanger Bracket & C-clamp)

42.5" 1080mm

11.0" 280mm

21.5" 547mm

63.5" 1613mm