

# THE SELADOR X7•12-SQUARE

**X7**  
TECHNOLOGY  
FOR YOUR PAR  
AND FRESNEL  
APPLICATIONS!

# selador™



## X7•12-SQUARE SPECIFICATIONS

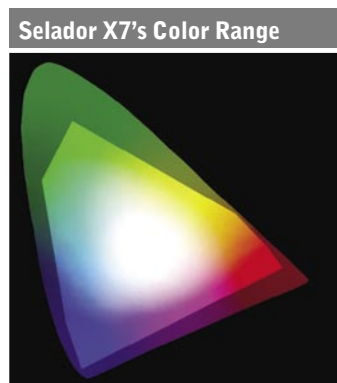
**SOURCE:** Sixty-four high-brightness Luxeon® LEDs in each fixture. X7 luminaires utilize Selador's patent-pending seven-color LED mix for intensely saturated colors across the spectrum, natural-looking pastels and white light, and beautifully rendered colored objects and skin tones

**SIZE:** 12 × 12 inches

**PRIMARY OPTICS:** High-efficiency (90%) clear polycarbonate

**BEAM ANGLE:** 12° (at 50% of peak illuminance) without secondary optical slides

**COLOR RANGE:** Nearly limitless number of colors (256<sup>7</sup>)



**CCT:** Infinitely adjustable for all Correlated Color Temperatures 1,000K to 20,000+K

**CRI:** From 80 CRI to 90 CRI for white mixes

**DIMMING:** Selador fixtures come standard with a specially designed, internal dimming curve that provides very precise control at low-light levels, reducing the "stepping" effect between low DMX values, while maintaining good color-mixing uniformity. For applications that require less low-level precision, Selador fixtures may be ordered with optional linear dimming.

**DATA INTERFACE:** 5-pin, XLR male and female connectors for data in and out.

**CONTROL:** DMX512, seven channels, addressed by the thumb-wheel panel on the back of the fixture

DATA CHANNEL	COLOR	VALUE	FUNCTION
Base address (1)	Red	0-255	Intensity 0-100%
Base + 1 (2)	Red-Orange	0-255	Intensity 0-100%
Base + 2 (3)	Amber	0-255	Intensity 0-100%
Base + 3 (4)	Green	0-255	Intensity 0-100%
Base + 4 (5)	Cyan	0-255	Intensity 0-100%
Base + 5 (6)	Blue	0-255	Intensity 0-100%
Base + 6 (7)	Indigo	0-255	Intensity 0-100%

**HOUSING:** Extruded aluminum in standard anodized matte black. Silver and custom-color anodizing are available.

**RATING:** Universal power input 100-240VAC, 50/60Hz. Each X7 fixture must be connected to a **non-dimming**, 15-20 amp circuit.

**POWER CONSUMPTION:** 156W/1.4 amps (with all colors at full intensity)

**CABLE:** Power input (20-amp, **non-dimmed**) using a Neutrik® PowerCon® locking pigtail with either Edison or Twistlock male connector (one sold with each fixture, others available separately)

**HEAT DISSIPATION REQUIREMENTS:** X7 fixtures contain no internal fans and no automatic shut-off or self-dimming circuits in order to ensure silent, predictable performance at all times. To avoid premature reduction in LED output and to reduce the likelihood of failure, X7 luminaires require well-ventilated, natural airflow around the entire fixture housing, regardless of positioning. (See "Temperature Range" and "Source Life" below.) Under such conditions, the surface temperature of the fixture housing will not exceed 160°F (70°C).

**TEMPERATURE RANGE:** 0°F to 115°F (-18°C to 46°C) for typical colored-light or color-changing operation with unrestricted airflow around fixtures

**HUMIDITY:** 0 to 90% non-condensing

**APPLICATIONS:** Rated for dry, indoor use

**SOURCE LIFE:** All lamp types experience permanent degradation of light output over time. For LED sources, although this degradation occurs very slowly, light output will gradually decrease with use. Heat within the LEDs is the primary driver of any reduction in output.

Selador X7 fixtures incorporate robust thermal-management components to protect the LEDs and prolong their life. Built-in restrictions on maximum drive current supplied to the LEDs and generous heat-dissipating surface area in the fixture housings help ensure longevity. X7's effective fixture design allows the high-brightness LEDs used in all Selador X7 products to maintain 90% of their original light output after 50,000 hours of typical operation under normal conditions.

Typical operation is defined as colored-light or color-changing functions. When all LEDs are frequently operated at or near full brightness, or when X7 fixtures are consistently used to produce white light, adequate natural airflow, cooler ambient operating temperatures (maximum 90°F/32°C) and sufficient air volume around the fixtures are required to maintain LED longevity.

Fixtures operated at higher ambient temperatures will experience a more rapid decrease in output than those operated under cooler conditions. Airflow around the fixtures greatly affects the heat-dissipating capabilities of the fixture housing. For optimal performance, X7 fixtures should not be operated in small, enclosed areas, except for very short durations and at less than full brightness levels.

**COLOR CONSISTENCY:** The complex thermal-management systems built into all Selador X7 fixtures are designed to minimize changes to color output over time. However, depending on the application, some colors of LEDs may be used much more frequently or at higher brightness levels than other colors. This can eventually lead to minor alterations in color-mixing performance and may require slight adjustment in preset cues or programs over time. This is true for all LED-based luminaires.

**WEIGHT:** 22 lbs. (10 kg)

## ACCESSORIES:

**X7 SECONDARY LENSES:** Eighteen available secondary lenses, 10 × 12" each, control horizontal and vertical beam spreads independent of one another: 12° to 80° in each direction. In combinations of up to four lenses at once, they produce square or rectangular beams of nearly any size and shape. All X7 lenses are lightweight, durable, and easily interchangeable. Soft- and heavy-diffusion lenses are also available by special order.

**X7 YOKE:** Standard

**TRUNNIONS / FLOOR STANDS:** Optional

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.



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