



Low Power. Long Life. High Brightness.

Planar's Clarity™ LED3 Series is a complete line of LED-illuminated rear projection video wall displays that deliver industry-leading power-efficient performance and long life. Designed to fully exploit the latest generation LEDs, the Clarity LED3 Series can maintain a wide range of brightness levels at optimized power levels and long illumination lifetimes.

Designed for energy efficiency, the Clarity LED3 Series also delivers outstanding brightness up to 800+ nits, illumination life up to 100,000 hours and high reliability for every watt of power consumed. Planar's proprietary SiFi3 technology ensures every display in the video wall operates at a user-defined power or brightness level over the lifetime of the video wall; all while delivering crisp, clear, color and brightness balanced images. The Clarity LED3 Series is engineered for quiet, worry-free operation and low cost-of-ownership.

LOWER TCO VIA ENERGY EFFICIENCY



Control room video walls are often intended to operate around the clock for years and over those years, small savings each day accumulate to a significant amount. The Clarity LED3 Series employs energy efficient technology to lower total cost of ownership.

High Luminance Per Watt

How many nits of brightness is produced for every watt of power consumed? The Clarity LED3 Series is extremely efficient producing the most nits/watt in the industry--20% to 80% more. That means images with more than sufficient brightness operate at lower power levels.

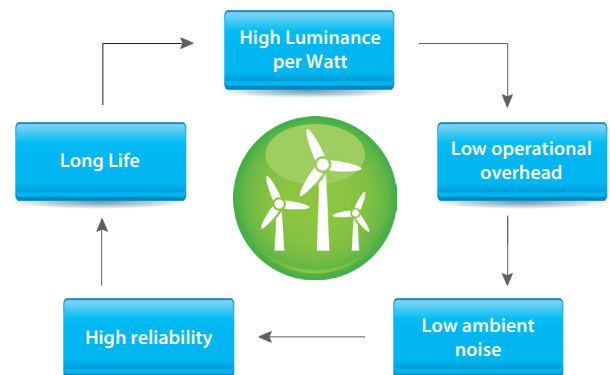
Lower Operational Overhead

Throughout the life of a rear projection video wall, operating costs add up. With the power efficient Clarity LED3 Series:

- Part replacement cost is lower because parts last longer
- Electricity costs are lower through lower display power demand and lower room cooling costs
- Less man hours are required to maintain the video wall

Lower Ambient Noise

An additional benefit of power efficiency is reduction of heat and noise. A power efficient Clarity LED3 Series, means fewer fans and slower running fans can effectively dissipate what heat is produced, resulting in very quiet operation and fewer moving parts.



High Reliability

It is well understood that excessive heat has a negative effect on electronic components. By lowering the display's internal ambient heat, it ensures consistent, reliable and long lasting video wall performance so you can be concerned about what's on the video wall and not what's inside the video wall.

Long Illumination Lifetime

Illumination systems are the most important element of rear projection displays. The Clarity LED3 Series provides industry-leading illumination lifetime up to 100,000 hours in Eco mode. And since the Clarity LED3 Series is brighter, Eco mode is sufficiently bright for most all environments.



ENVIRONMENTALLY CONFIGURABLE

For video wall environments with critical power or ambient light requirements, the Clarity LED3 Series with SiFi3 technology and Planar WallNet can easily adapt to these challenging environments. The Clarity LED3 Series is fully configurable to operate the video wall at either a fixed power level or a fixed brightness over its lifetime:

Fixed Power Operation

When video wall power distribution is limited, a Clarity LED3 Series video wall can be set to an operator-defined, constant power level. Over time, LED illumination diminishes but by defining lower power levels, it extends the life of the illumination module- up to 100,000 hours running at a continuous power level.

Fixed Brightness Operation

The Clarity LED3 Series is an ideal solution for video wall operators requiring a constant, fixed brightness level. Once the brightness level is set, SiFi3 and Planar WallNet software self-regulates and maintains that specific brightness level at the most power efficient setting.

Planar WallNet

Planar WallNet allows operators to use a web-based interface to monitor and control Planar displays—and it can automatically send email alerts if a problem is detected. Configuration is simple and gives users easy access to multiple display status views, network features and video wall administration tools. Plus, software updates are available with a click of a mouse.

Technology Designed Into Every Display

Service and Accessibility: Planar invented front access and continues to provide both front and rear access for full service and zero rear clearance.

Color and Brightness Uniformity: SiFi3 with Auto Color and Brightness (ACB) maintains uniformity across all displays in the video wall.

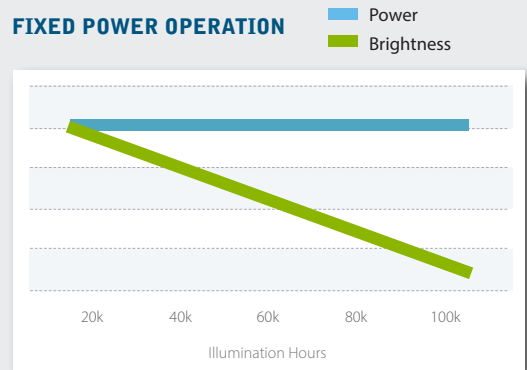
PrecisionView™ Screen Technology: Planar's PrecisionView screens are designed to the tightest tolerances for fit, flatness and viewing angles.

Display Profiles

By utilizing advanced color management techniques and our extensive experience with different video wall applications, Planar created Clarity Display Profiles. These preset and customizable color spaces have been optimized for a range of specific video wall applications, harnessing the power of the LED illumination and producing a better visual experience for leading video wall applications, including:

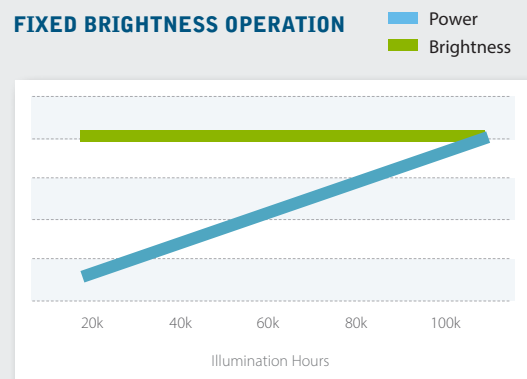
- Control Room
- Low Ambient Light
- Security
- Simulation
- Studio Monitor
- On-Camera

FIXED POWER OPERATION



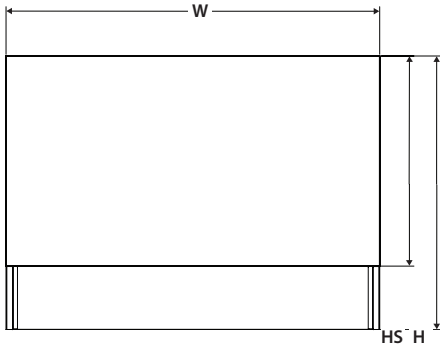
- Operates at a fixed power level over LED lifetime
- Brightness decreases over time
- Illumination lifetime of up to 100,000 hours

FIXED BRIGHTNESS OPERATION

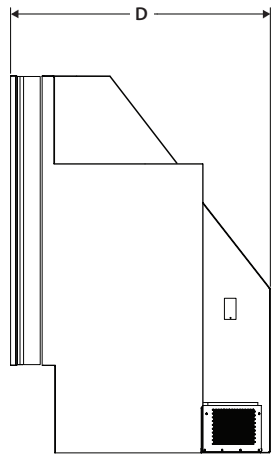


- Adjusts power to drive a consistent brightness
- Brightness stays constant over LED lifetime
- Illumination lifetime of 100,000 hours in eco mode

Front



Side



CLARITY LED3 SERIES SPECIFICATIONS

Imaging Technology	DLP
Illumination System Lifetime	Clarity LED 6x redundant 60,000 Hrs / 100,000 Hrs in Eco Mode
Screen Type Border (typical) Screen Gap	PrecisionView™ - 2 0 mm FS: <0.7 mm; RS <0.1 mm
Color and Brightness Control	Automatic RGBCYMW Brightness and Color via SiFi3™ for LED
Brightness Uniformity** - ANSI 9	> 96%
Colors	16.7 million
Color Gamut	118% IBU
Color Spaces	Native LED, Clarity NaturalColor™, Rec 709
Application-Specific Display Profiles	Control Room, Simulation, Security, Low Ambient Light Studio Monitor, On-Camera, Eco
Image Alignment	Integrated 6-axis motorized alignment
Maximum Stacking	6 high (4 high with c80RP-LED3)
Temperature Range	5-40° C for Eco & Low ambient modes (20° +/- 3° C for optimal screen performance)
Humidity Range	20 to 80% RH non-condensing
Serviceability	Full front and rear access (Rear access only for c80RP-LED2)
Safety Regulations	FCC Class A, EN55022/CISPR22, ICES-003, CNS 13438, EN55024,
Integrated	Indisys™ Image Processing System
Capabilities	PIP, resize, pan, scale, zoom, snapshot
Inputs	2 DVI or 4 DisplayPort connectors depending on model, 330 MHz Pixel Frequency
Loop Through	2 DVI or 4 DisplayPort connectors depending on model
Control	IR remote, RS-232, Indisys Mgmt Suite via Ethernet TCP/IP
Open	Clarity Open Electronics with Big Picture™
Inputs	VGA to FHD (1920x1080 @ 60Hz)
Analog	DSUB 15 pin connector x2
Digital	DVI-D
Video	SDI, Composite, S-Video, Component-HD
Loop through	Analog, Digital and Video
Control	IR remote, RS-232, RS-485 with loop through, WallNet

Model	c50HD-LED3	c70HD-LED3	c50RP-LED3	c67RP-LED3	c80RP-LED3	c50RX-LED3	c67RX-LED3
Diagonal	50"	70"	50"	67"	78"	50"	67"
Resolution	Full HD 1920 x 1080	Full HD 1920 x 1080	SXGA+ 1400 x 1050	SXGA+ 1400 x 1050	SXGA+ 1400 x 1050	XGA 1024 x 768	XGA 1024 x 768
Engine Output	1150 lumens	1150 lumens	1200 lumens	1200 lumens	1200 lumens	900 lumens	900 lumens
PrecisionView - 2 (PV2) Brightness - cd/m2	Opt: 840; Typ: 765 Eco: 520	Opt: 430; Typ: 390 Eco: 265	Opt: 775; Typ: 710 Eco: 480	Opt: 435; Typ: 395 Eco: 265	Opt: 285; Typ: 260 Eco: 175	Opt: 580; Typ: 535 Eco: 360	Opt: 325; Typ: 300 Eco: 200
Viewing Angle (1/2 gain)	H = 37°; V = 32°	H = 37°; V = 32°	H = 37°; V = 32°	H = 37°; V = 32°	H = 37°; V = 32°	H = 37°; V = 32°	H = 37°; V = 32°
Viewing Angle 1/5 gain	H = 51°; V = 48°	H = 51°; V = 48°	H = 51°; V = 48°	H = 51°; V = 48°	H = 51°; V = 48°	H = 51°; V = 48°	H = 51°; V = 48°
Viewing Angle 1/10 gain	H = 60°; V = 58°	H = 60°; V = 58°	H = 60°; V = 58°	H = 60°; V = 58°	H = 60°; V = 58°	H = 60°; V = 58°	H = 60°; V = 58°
Performance Efficiency (nits/watt)	Opt: 3.11; Typ: 3.40 Eco: 3.47	Opt: 1.59; Typ: 1.73 Eco: 1.77	Opt: 2.87; Typ: 3.16 Eco: 3.20	Opt: 1.61; Typ: 1.76 Eco: 1.77	Opt: 1.06; Typ: 1.16 Eco: 1.17	Opt: 2.15; Typ: 2.38 Eco: 2.40	Opt: 1.20; Typ: 1.33 Eco: 1.33
Contrast Ratio*	1650:1	1650:1	1750:1	1750:1	1750:1	1200:1	1200:1
Contrast Ratio - Dynamic **	20,000:1	20,000:1	20,000:1	20,000:1	20,000:1	15,000:1	15,000:1
Screen Dimensions							
Width (W)	43.6" (110.8 cm)	61" (154.9 cm)	40" (101.6 cm)	53.5" (135.9 cm)	62.5" (158.8 cm)	40" (101.6 cm)	53.5" (135.9 cm)
Height (HS)	24.5" (62.3 cm)	34.3" (87.0 cm)	30" (76.2 cm)	40.2" (102 cm)	46.9" (119.1 cm)	30" (76.2 cm)	40.2" (102 cm)
Cabinet Dimensions							
Width (W)	43.6" (110.8 cm)	61" (154.9 cm)	40" (101.6 cm)	53.5" (135.9 cm)	62.5" (158.8 cm)	40" (101.6 cm)	53.5" (135.9 cm)
Height (H)	31.3" (79.5 cm)	44.7" (113.5 cm)	37.8" (96 cm)	49.1" (124.8 cm)	46.9" (119.0 cm)	37.8" (96 cm)	49.1" (124.8 cm)
Depth (D)	28.5" (72.6 cm)	30.9" (78.6 cm)	27.5" (69.9 cm)	33.7" (85.6 cm)	46.2" (117.3 cm)	27.5" (69.9 cm)	33.7" (85.6 cm)
Weight	120 lbs (54kg)	175 lbs (79kg)	135 lbs (61 kg)	200 lbs (91 kg)	175 lbs (79 kg)	135 lbs (61 kg)	200 lbs (91 kg)
Power Consumption (Opt./Typ./Eco) - Watts	270/225/150	270/225/150	270/225/150	270/225/150	270/225/150	270/225/150	270/225/150

*Typical

**Typical with dynamic black enabled



When image experience matters.

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