

White Light LED Fixtures for TV and Film

By JustinLang

Lighting for the camera and for the eye are two different things. Naturally, the eye is a bit more forgiving as it has less sensitivity and automatically makes things somewhat balanced. The camera acts similarly to the eye, but since it's not directly connected to a brain, it requires much more attention to certain levels of light and other details to create a clean and balanced image on screen.

LED fixtures seem to be getting brighter and more powerful by the week. Since the last time the *PLSN* Buyers Guide focused on White Light LED fixtures for TV and Film (April, 2013), the market has grown along with the range of fixtures now ready to serve as viable replacements for traditional tungsten fixtures.

As with any Buyers Guide, we encourage you to take what you read from these pages as your first step into the vast world of LEDs for this market. You may feel a little like Alice falling down the rabbit hole, but a veritable wonderland of energy-saving LED technology awaits — and lighting manufacturers are likely to be a lot more pleasant upon your arrival than the characters Alice encountered.

Happy hunting! **PLSN**



Company	Model	LED Info	Field Angle	Lens Options	Illuminance	CRI	Color Temp	Voltage	Current	Measurements	Weight	Retail Price	Comments
A.C. Lighting chroma-q.com	Chroma-Q Studio Force V 12 Phosphor	60 (12 x RGA; 24 x B)	Softlight	Remote Phosphor Technology	Hot Lumen - 4,202 @ 5600K; 1,751 @ 3200K	91	Variable 3200K - 5600K	100-240V AC, 50-60 Hz	160VA	13.2"x 7.5" x 8.6"	9 lbs	\$1,975	3200-5600K CCT, variable white fixture. Soft edge output. Fine-tuning of green, magenta tints and frequency. Smooth uniform wash, extra soft beam, theatrical grade dimming. Manual control mode, color touch screen interface, fanless, studio/full modes. Accessories available.
Apollo Design apolloledesign.net	miniProfile Zoom LED 50	50 watt	20° - 40°	N/A	840 Lux	85	3000K, 4000K, 5700K	80 - 250V	5A	13.8" x 4.3" x 5.1"	9 lbs	\$948	Options range from a simple plug-in version to the professional version with DMX, with cool white (5700K), warm white (3000K) and natural white (4000K).
ARRI arri.com	L7-TT	160 watts, white + RGB	15° - 50°	Fresnel	@3m: 802 lux (Flood), 6137 lux (Spot)	94	2600K - 3600K	100 - 250V	1.3A	13.7" x 11.9" x 11.8"	18.1lbs	\$3,300	2600K to 3600K color temperature range is more than 20% than its counterpart, the L7-C (Color). The L7-TT also features adjustment of green-magenta point for precise color matching and color rendition.
BBS Lighting bbslighting.com	Area 48 LED	Premium LED array	160°	Soft Box, Snap Grid	385 Footcandles	97	3200K	Variable	1.3A	13.9" x 10.8" x 4.5"	7.9 lbs	\$2,295	HD-friendly 97 CRI soft light output is comparable to a 1K traditional soft light. New design moves the phosphor away from the LED for improved color rendering, consistency and light output. Integrated battery or standard AC power. Interchangeable panels, with Daylight, Tungsten and Chroma-Green options.
Chauvet Professional chauvetprofessional.com	COLORdash Par Tri-18 VW	18 Tri-Color (2 ww, 1CW)	39°	N/A	754 Lux @ 5m	85	2800K to 7000K	100 - 240V	.75A	12.7" x 11.7" x 4.1"	10.2 lbs	\$750	COLORdash Par Tri-18 VW is a compact, durable PAR-style wash light powered by 18 cool and warm white LEDs, for better, purer whites and a color temperature selection that goes from warm and inviting to crisp, cold shades. COLORdash Par Tri-18 VW is lightweight and features silent, flicker-free operation. Power linking as well as 3- and 5-pin DMX connectors simplify connections and setup.
Clay Paky claypaky.it	A.LEDA TW and W K10 or K20	19 or 37 15 watt Osram Ostar RGBW	16°-68°	Transparent front mask	Up to 22,000 lumens	94	2600K-7500K	100-240V Auto Ranging	3-7A dependent upon input voltage	K20: 13x15.6x23.2" K10: 10x14.1x18.9"	K20: 46.3 lbs, K10: 31.9 lbs	K20: \$9,775 K10: \$6,480	Designed to offer intense and even washes of tunable or fixed white light in an energy efficient and lightweight package.
Coemar Lighting coemar.com	Reflection LEDko	Modular 120 watt LED	5°, 10°, 19°, 26°, 36°, 50°, 28°-40° zoom	Hard edge profile / Soft edge Fresnel profile / Soft edge PC profile	4489 lux @3m (5600 K, 28°)	85	3200K or 5600K, or variable 3000K-7000K	100 - 250V	0.67 A at 230 VaC, 1.76 A at 90 VaC	23.7" x 8.5" x 8.2"	11 lbs	By Request	Flat field optics, fixed 5600K white light output (or fixed 3200K for max output). Also available with variable 3000/7000 Kat, Soft/Hard edge profile. Low noise, flicker free.
DeSisti Lighting desisti.it	Magis LED Fresnel	55 watt array	6°-60°	Fresnel	70FC @ 10'	95	3200K or 5600K	120-230V	1A	7.8" x 6.8" x 10"	7.7 lbs	\$2,100	LED Fresnel Range 4 sizes available. LED Magis, Leo-6, Leo-6 Piccolo, Leo-10. Available in 3200K and 5600K with CRI > 95.
Elation Lighting elationlighting.com	DW Fresnel	250 watt LED engine	13° - 41°	N/A	8,479 @ full output	>90	3,000K - 6,200K variable	120-240V	3.5A	23.3" x 11.2" x 17.9"	20.9 lbs	\$1,800	Variable white and manual zoom.
Electronic Theatre Controls etconnect.com	Source Four LED Studio HD	60, 2.5 watt, Lumiled and Osram	Variable	5°-90°	6118 lumens	94	2700K-6500K	120V	1.07A	24.8" x 10.6" x 17.1"	18.3 lbs	\$1,995	This information is for the Studio HD, which is a variable white light source. Company also offers static white light fixtures with warm and cool white light.
ElektraLite myElektraLite.com	Dazer Theatrical White	36, 5 watt	Variable (15°, 25°, 40°, 60°)	Variable diffraction	6,190 lumens	86	3200K-5600K	120V	1.9A	11" x 8.5" x 8.5"	9.5 lbs	\$799	Clean, variable stage and film quality white light from 36 5W LEDs. Modules range in color temperature from 3200K to 5600K for tenability. Proprietary diffraction lensing system promises a packed punch of light in a variety of beam spreads. Four interchangeable optics allow for 15°, 25°, 40° and 60° beam spreads.
Lightronics lightronics.com	FXLD120EW	120 watt Edison LED array	19°, 26°, 36°, or 50°	Precision optical glass	19°: 16,900 Lux at 2 meters	>80	3200K or 5500K	120V - 240V	1.5A	23.9" x 10.7" x 11.1"	12 lbs	\$1,850	150W LED Ellipsoidal generates 7000+ lumens. 120W LED array rated for a 100,000 hour life span.
Litepanels litepanels.com	Sola 12	Custom single source LED	54° - 15°	Fresnel only	2K Tungsten	N/A	Daylight	100V - 240V	3A	14.25" x 18.75" x 15"	35 lbs	\$4,795	N/A
Mega-Lite mega-lite.com	VAZT LED VW100	100 watt 2 in 1 COB	60°	None	NA	85	3400K - 5600K	110V	AC Power	9.25" x 9.25" x 10.23"	6 lbs	\$489 MAP	N/A
Mole-Richardson mole.com	8921	150 watt QD LED	22° - 56°	Fresnel	100fc @ 10' in full flood	97	3200K or 5600K	90V - 250V	1.5A	11" x 11" x 15"	8 lbs	\$1,895	Quantum Dot LED engineered for motion picture/broadcast cameras. Light engine is retrofit-able to legacy Mole Fresnels of the same size.
Nila nila.com	Zaila, Varsa, Boxer, SL	45 watt, 75 watt, 200 watt, 800 watt white LEDs	8°, 10°, 20°, 40°, 60°, 80°, and 10x60	Holographic	4000 to 70,000 lumens	85 to 95	3200K and 6000K	90V to 250V	.4, .6, 1.6, 6.6A	Visit Website	5, 10, 20, 58 lbs	\$1,000, \$2,500, \$4,000, \$8,500	Designed to be environmentally sustainable, durable, bright, versatile and user friendly, with optimum color-rendering properties. RoHS compliant, the fixtures can be returned for repurposing and/or recycling.
Philips Strand Lighting strandlighting.com	Studio Panel LED Luminaire	484; 50 watts; tunable white LED array	19°	40° and 60° available diffusion lenses	> 2,000 lumens (white light)	79	3000 - 6000K (adjustable) CAL ON; 2700 - 6500K CAL OFF	100-240V AC	0.8A at 115V; 0.4A at 240V	11.8" x 2.6" x 11.8"	5.1 lbs	\$1,333	Designed for both studio and location use. Tunable white color temperature control (3000K-6000K). Requires only 50W. Will operate on AC or DC voltage; uses industry standard batteries. A range of holographic diffusers provide beam angle control with minimal light loss.
PR Lighting megasystemsinc.com	PR-3305 D	10 LEDs x 18 watts	90° to 150° by adjustable panels	None	4000lm	< 93	5600K	220V	AC Power	30.9" x 17.1" x 11.2"	22 lbs	\$3,124	N/A
Production Resource Group RH+A Division prgrha.com	Daylight Bullet	24 watt LED array	29° and 95°	Linear Spread Lens	108 FC @ 10' (Spot)	90+	5000K	100-240 VAC 50/60 Hz	0.2A	3-1/8" x 4-1/8" x 5"	6 lbs	\$599	Adjustable focus from spot to flood. The head can be remotely mounted from the DMX driver up to 3'. Four Pin XLRs can be specified for the head to driver cable to extend the distance to a max 25' with additional XLR extension cables. Also available the White Light Bullet at 3000K.
Rosco rosco.com	Miro Cube WNC	12 - 4 watt Cree XML	15° to 70°	15°, 20°, 40°, 60°, 70°	3,100 lumens	N/A	2800K - 6500K	90V - 140V	.4A	4" x 4" x 4.25"	2.5 lbs	By Request	Bright (3100 lumens) and tunable (2800K-6500K) output from 12 Cree XML 4W emitters. A mix of warm, neutral and cool LEDs allow for excellent rendering across all color temperatures.
Robe Lighting robelighting.com	ROBIN ParFect 100 DL	12 Osram Ostar single color multichips	7°	10°, 20°, 40°	11,620 lux at 5 meters, 7° beam angle	75	6500K	100-240 V	200 W	13.5" x 9.5" x 6.8"	9 lbs	\$1,399	Also available in SmartWhite
Robert Juliat robertjuliat.com	ZEP 640SX	150 watt LED	Multiple	28-54, 16-35, 11-26	4530 lumens	N/A	3000K, 4000K, 2700K - 5700K	Variable	1.25A	17.6" x 26.9" x 13"	33.7 lbs	By Request	The integral flicker-free, dimmable, electronic PSU is designed for studio applications. Zero UV / IR emissions protect audiences, artwork.
Videssence videssence.tv	LV050-F	50 watt LED	46° in flood	Fresnel (standard)	53 fc @ 9'	96+	3200K or 5600K	120V - 230V	.46A @ 120V	5.1" x 6" x 6.6"	4.6 lbs	\$1,299	Compact, powerful tungsten Fresnel with 96+ CRI. Fresnel-like optics, flicker-free dimming without color shift. A manual slide bar at the top of the fixture adjusts the beam and locks in place. Quiet operation. 120 cord to remote driver box for dimming/DMX control. Power is shut off to the driver and LED when dimmed to zero with DMX so no external relay or power cut off is required. The fixtures use standard 40 Gel Frame and Barn Doors. Units available in tungsten and daylight.