

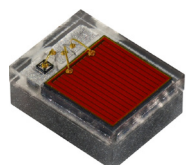
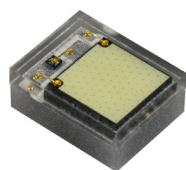
XLAMP® ELEMENT G (XE-G) LEDs

- New performance class of LEDs, with 9x the lumen density of XP-E2
- Broadest range of spectral options: 17 colors + full range of white
- No-compromise package: large thermal pad and small chip-to-edge spacing

June 2022 (FS40R0)

BROADEST RANGE OF SPECTRAL OPTIONS

Enables new levels of spectral control for general & specialty lighting applications

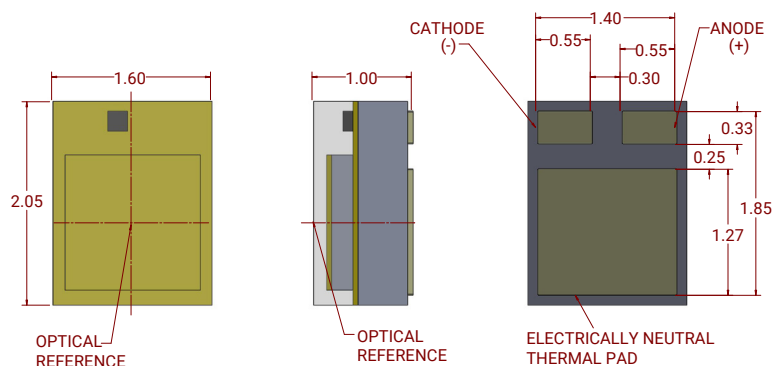


White WT Cool					White WT Neutral	White WT Warm	Photo Red HR 650-670 nm
Violet VL 400-420 nm	Royal Blue RY 450-460 nm	Blue BL 460-475 nm	Cyan CY 490-510 nm	Green GR 520-535 nm	Amber AM 585-595 nm	Red-Orange RO 610-620 nm	Red RD 620-630 nm
		Phosphor PB Blue	Phosphor PC Cyan	Phosphor PL Lime	Phosphor PA Amber	Phosphor PO Red-Orange	Phosphor PR Red
				Phosphor PM Mint	Phosphor PY Yellow		

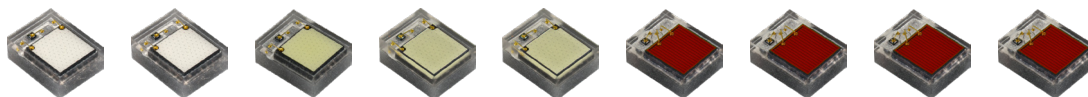
NO-COMPROMISE PACKAGE DESIGN

Industry-leading features across white & all colors:

- Class 3 ESD protection
- Consistent chip z-height & location
- Optical profile similar to XLamp XP-E2 LEDs
- ~0.1 mm chip-to-edge spacing
- Consistent anode/cathode location
- Large 1.8 mm² electrically isolated thermal pad

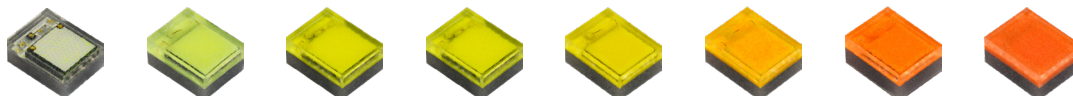


DIRECT COLORS



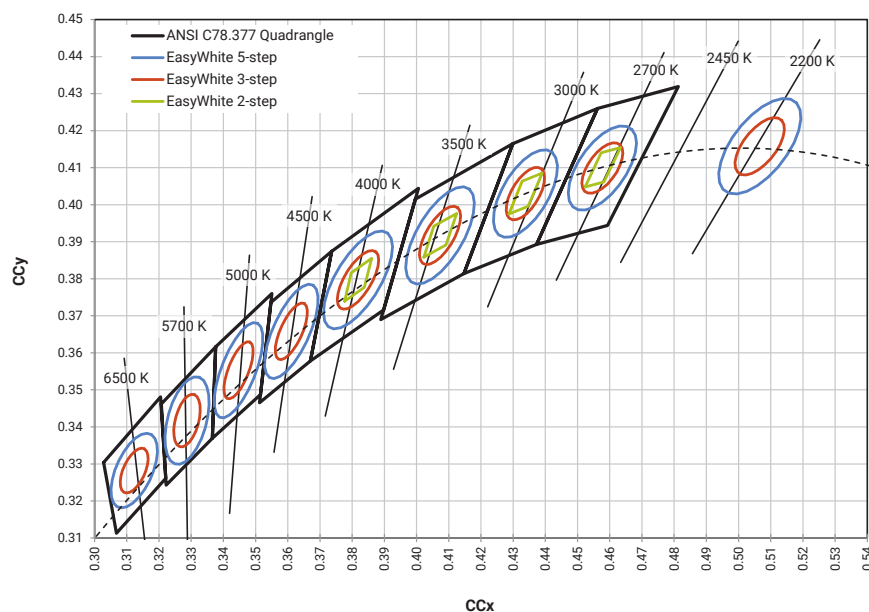
	Violet	Royal Blue	Blue	Cyan	Green	Amber	Red-Orange	Red	Photo Red
Wavelength (nm)	400-420	450-465	465-485	490-510	520-535	585-595	610-620	620-630	650-670
Viewing Angle	125°	125°	125°	140°	125°	120°	120°	120°	125°
Thermal Resistance (°C/W)	2.1	1.9	1.9	1.9	2.6	2.1	2.1	2.1	3
Max Current (mA)	3000	3000	3000	3000	3000	3000	3000	3000	3000
Binning Temperature (°C)	25°C	25°C	25°C	25°C	25°C	25°C	25°C	25°C	25°C
Typical Vf @ 1000 mA (V)	3.1	3.05	3.05	3.05	3.05	2.4	2.4	2.4	2.4
Maximum Flux	3.6 W	3.8 W	187 lm	407 lm	649 lm	462 lm	417 lm	323 lm	2.5 W

PHOSPHOR-CONVERTED (PC) COLORS



	PC Blue	PC Cyan	PC Mint	PC Lime	PC Yellow	PC Amber	PC Red-Orange	PC Red
Viewing Angle	125°	125°	125°	125°	125°	125°	125°	125°
Thermal Resistance (°C/W)	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
Max Current (mA)	3000	3000	3000	3000	3000	3000	3000	3000
Binning Temperature (°C)	25°C	25°C	25°C	25°C	25°C	25°C	25°C	25°C
Typical Vf @ 1000 mA (V)	3.05	3.05	3.05	3.05	3.05	3.05	3.05	3.05
Maximum Flux	274 lm	799 lm	954 lm	995 lm	901 lm	569 lm	356 lm	108 lm

WHITE: CCT & CRI OPTIONS



CCT	70 CRI	80 CRI	90 CRI
6500 K	◆	◆	
5700 K	◆	◆	◆
5000 K	◆	◆	
4000 K	◆	◆	◆
3500 K	◆	◆	◆
3000 K	◆	◆	◆
2700 K	◆	◆	◆
2200 K	◆	◆	◆

