

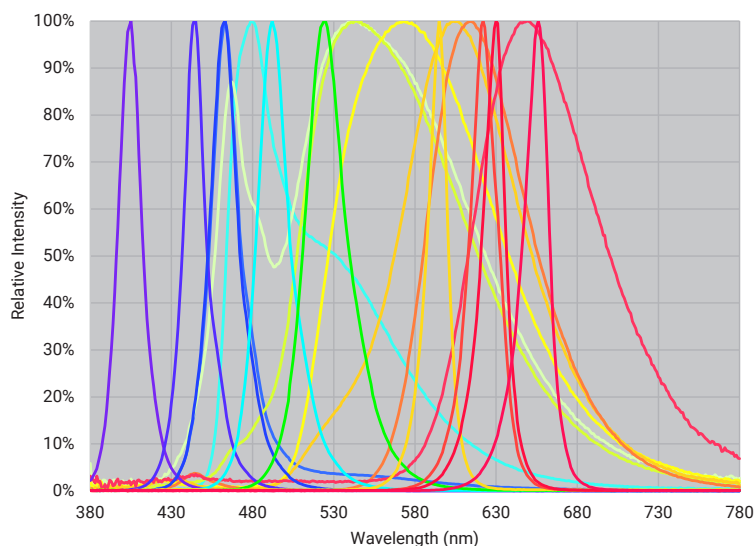
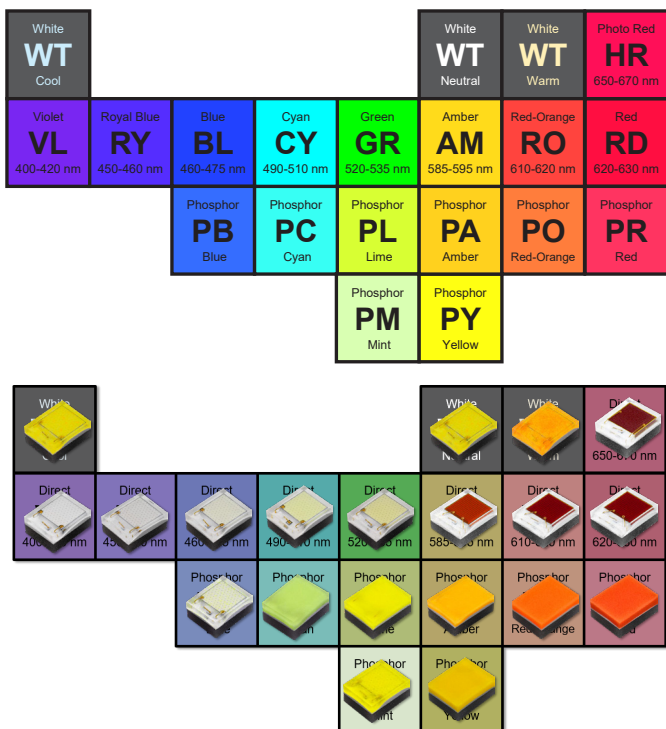
XLAMP® ELEMENT G (XE-G) LEDs

- Major performance improvements in 2024: 20% efficacy increase for RGBW
- Industry's highest performance single color LED portfolio
- Broadest range of spectral options: 17 colors + full range of white
- No-compromise package: large thermal pad and small chip-to-edge spacing

July 2024 (FS40R2)

BROADEST RANGE OF SPECTRAL OPTIONS

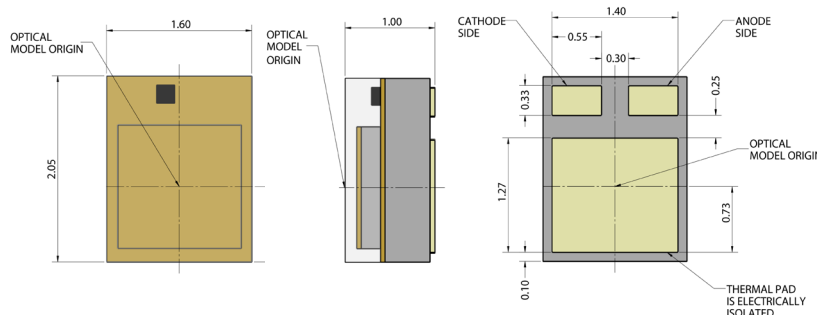
Enables new levels of spectral control for general & specialty lighting applications



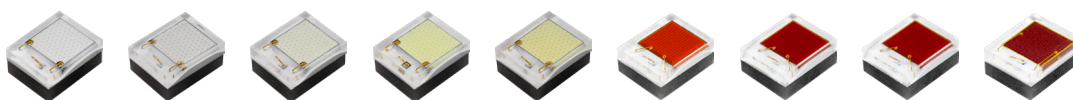
NO-COMPROMISE PACKAGE DESIGN

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



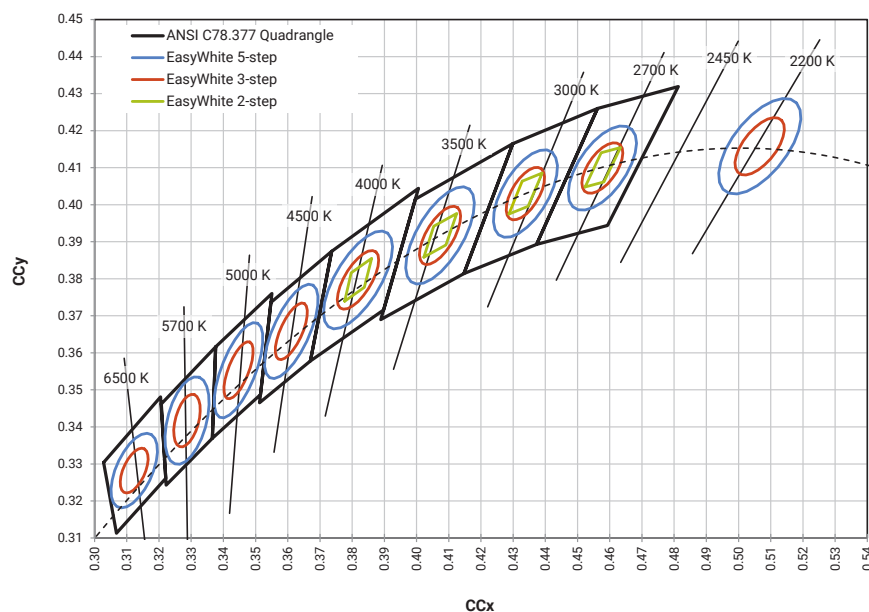
	Violet	Royal Blue	Blue	Cyan	Green	Amber	Red-Orange	Red	Photo Red
Wavelength (nm)	400-420	450-465	465-485	490-510	520-535	585-595	610-620	620-630	650-670
Viewing Angle	125°	125°	125°	140°	125°	120°	120°	120°	125°
Thermal Resistance (°C/W)	2.1	1.9	1.9	1.9	2.6	2.1	2.1	2.1	2.0
Max Current (mA)	3000	3000	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)	3.2	3.0	2.9	2.8	2.75	2.4	2.4	2.4	2.25
Maximum Flux	4.2 W	4.1 W	278 lm	519 lm	801 lm	254 lm	458 lm	372 lm	3.4 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)	2.9	2.9	2.9	2.9	3.0	3.0	3.0	3.0
Maximum Flux	404 lm	799 lm	1,136 lm	1,130 lm	991 lm	657 lm	456 lm	118 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	◆	◆	◆

