LUMILEDS

ILLUMINATION



LUXEON HL1Z Color Line
LUXEON HL1Z Fusion

Versatile LED family enabling vibrant multicolor lighting

Designed with space and energy efficiency in mind, LUXEON HL1Z Colors deliver deep hues from a small package, with minimal power consumption. This is enabled by CSP (Chip Scale Package) technology with an LED size of only 1.4mm x 1.4mm. This product line is both suited for applications with individual emitters as well as multicolor clusters.

LUXEON HL1Z Fusion Red, Green, and Blue are optimized to create compact, high-output, directional, white-tunable sources between 1,800K and 6,500K that can consistently follow the black body locus or create unique experiences with subtle off-white hues.

FEATURES AND BENEFITS

- Small package size (1414) allows colored spots with small beam angles from a minimal Light Emitting Surface (LES).
- Supports high power density with up to 2W electrical power per LED.
- Superior color stability over temperature with phosphor-converted saturated color LEDs.
- Complementary to the LUXEON HL1Z white LED series.

PRIMARY APPLICATIONS

- Spotlights
- Downlights
- Wall Wash
- Landscape Lighting
- Specialized Lighting

Product performance of LUXEON HL1Z Colors at specified test current 350mA, T_j=85ºC

COLOR	DOMINANT OR PEAK WAVELENGTH [1] (nm)		LUMINIOUS FLUX (LM) OR RADIOMETRIC POWER [2] (mW)		PART NUMBER
	MINIMUM	MAXIMUM	MINIMUM	TYPICAL	
PC Red	-	-	18	20	L1HZ-PCR1000000000
PC Red Orange	-	-	32	35	L1HZ-RNG1000000000
PC Amber	-	-	110	119	L1HZ-PCA1000000000
PC Green	-	-	180	195	L1HZ-PCG1000000000
Green	520	535	110	145	L1HZ-GRN1000000000
Blue	470	485	42	57	L1HZ-BLU1000000000
Royal Blue	450	460	550	610	L1HZ-RYL1000000000
Fusion Red	-	-	55	70	L1HZ-FCR1100000000
Fusion Green	-	-	134	152	L1HZ-FCG1100000000
Fusion Blue	-	-	111	137	L1HZ-FCB1100000000

Notes:
1. Lumileds maintains a tolerance of ±6.5% on luminous flux measurements. PC Red, PC Red Orange, PC Amber, PC Green, Fusion Red, Fusion Green and Fusion Blue are binned by chromaticity coordinates. Royal Blue are binned by peak wavelength. All other colors are binned by dominant wavelength.
2. Royal Blue are binned by radiometric power. All other colors are binned by luminous flux.