

**XLAMP® XHP35.2 WHITE LEDS (REV 4)**

Revision: 4 (June 14, 2024)

**Description Of LED Light Sources**

XLamp XHP35.2 White LEDs (Series: XHP35B)

This LM-80 report is applicable to the following order codes:

High Density (3-V/6-V) XHP35B-0x-xxxx-xAxxxxxxx

High Density (12-V) XHP35B-0x-xxxx-xDxxxxxxx

High Intensity (3-V/6-V) XHP35B-Hx-xxxx-xAxxxxxxx

High Intensity (12-V) XHP35B-Hx-xxxx-xDxxxxxxx

No failures occurred during testing.

**Results Summary For Tested LED Array**

Nominal Case & Ambient Temperature	Drive Current	Tested Product & Data Set	ANSI CCT Target	Mean CRI	Sample Count	Test Duration	Reported TM-21 Lifetimes
85 °C	1796 mA (3-V) 898 mA (6-V) 449 mA (12-V)	XHP50.2 6-V @ 85 °C, 1400 mA	3000 K	82	25	24,192 hrs	L90(24k) = 98,500 hrs L80(24k) > 145,000 hrs L70(24k) > 145,000 hrs
105 °C	1796 mA (3-V) 898 mA (6-V) 449 mA (12-V)	XHP50.2 6-V @ 105 °C, 1400 mA	3000 K	82	25	24,192 hrs	L90(24k) = 56,600 hrs L80(24k) = 121,000 hrs L70(24k) > 145,000 hrs
125 °C	1796 mA (3-V) 898 mA (6-V) 449 mA (12-V)	XHP50.2 6-V @ 125 °C, 1400 mA	3000 K	82	25	7,560 hrs	L90(8k) = 12,500 hrs L80(8k) = 35,200 hrs L70(8k) > 45,400 hrs
85 °C	2696 mA (3-V) 1348 mA (6-V) 674 mA (12-V)	XHP50.2 6-V @ 85 °C, 2100 mA	3000 K	81	25	18,144 hrs	L90(18k) > 109,000 hrs L80(18k) > 109,000 hrs L70(18k) > 109,000 hrs
105 °C	2696 mA (3-V) 1348 mA (6-V) 674 mA (12-V)	XHP50.2 6-V @ 105 °C, 2100 mA	3000 K	82	25	18,144 hrs	L90(18k) = 41,900 hrs L80(18k) = 89,100 hrs L70(18k) > 109,000 hrs
85 °C	3852 mA (3-V) 1926 mA (6-V) 963 mA (12-V)	XHP50.2 12-V @ 85 °C, 1500 mA	3000 K	81	25	18,144 hrs	L90(18k) > 109,000 hrs L80(18k) > 109,000 hrs L70(18k) > 109,000 hrs