

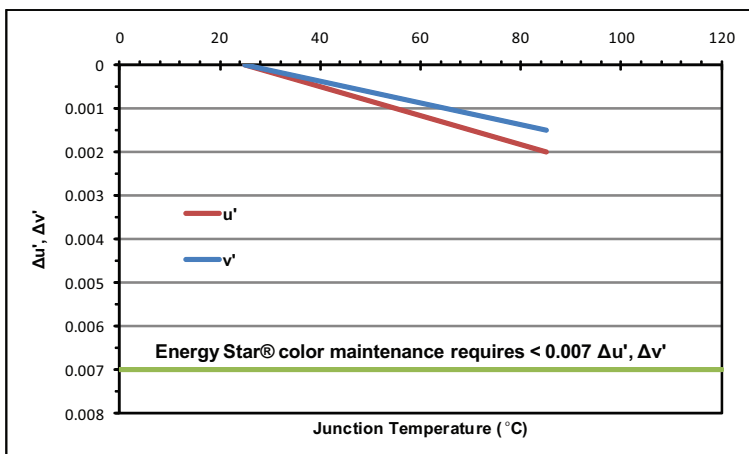
Product Brief

LUXEON H

High Voltage LED

LUXEON® H delivers superior color performance and reliability in a high voltage architecture that minimizes driver requirements making it an ideal solution for space constrained and cost sensitive retrofit bulbs and luminaires. With exceptional color stability over temperature and current, LUXEON H simplifies design while providing superior quality of light.

LUXEON H Delivers Exceptional Color Stability Over Temperature



LUXEON H Benefits:

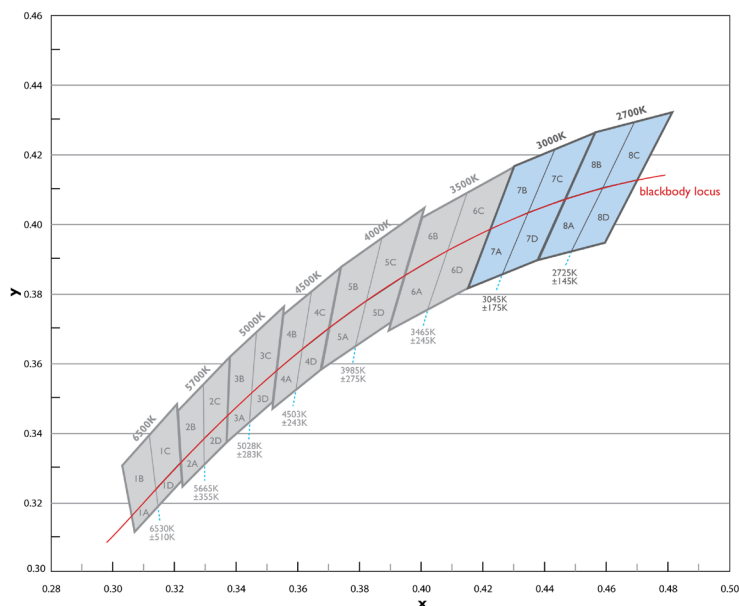
- Designed for the demanding compact retrofit bulb market
- Enables simplified solutions—no DC driver required
- Driven directly with rectified AC requiring just a resistor and bridge rectifier enabling more space to be allocated to thermal management
- Industry leading thermal performance and reliability in ANSI binned 2700K and 3000K CCTs
- Inherently stable color over operating temperature and current
- Delivers high quality light with high R9 values
- 50V, 1 watt LED flexibly supports 110V and 230V solutions
- LUXEON quality and reliability
- Complete optical, electrical and mechanical design resources help you get to market faster.



LUXEON H Illumination Characteristics

Color	Part Number	Typical CRI	Typical R9	Minimum	Typical	Typical	Forward Voltage (V)	
				Luminous Flux at 20 mA (lm)	Luminous Flux at 20 mA (lm)	Luminous Flux at 30 mA (lm)	Min	Typ
ANSI 2700K	LXAC-PW27	83	22	50	63	84	50	53
ANSI 3000K	LXAC-PW30	83	20	50	67	90	50	53

LUXEON H Binning



Absolute Maximum Ratings

Parameter	Maximum Performance
DC Forward Current (mA)	30
RMS Forward Current (mA) ¹	30
Peak Current (mA) ¹	60
ESD Sensitivity	< 2000V Human Body Model (HBM) Class 2 JESD22-A114-B < 200V Machine Model (MM) Class 2 JESD22-A115-B
LED Junction Temperature	125°C
Operating Case Temperature at 350 mA	-40°C - 105°C
Storage Temperature	-40°C - 85°C
Soldering Temperature	JEDEC 020c 260°C
Allowable Reflow Cycles	3
Autoclave Conditions	121°C at 2 ATM 100% Relative Humidity for 96 Hours Maximum
Reverse Voltage (Vr)	LUXEON H LEDs are not designed to be driven in reverse bias

Note 1: For AC operation with a minimum of 50Hz.



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