



LUXEON T

High-Efficacy, Illumination Grade LED light source

LUXEON® T emitters are illumination grade LEDs designed to deliver high efficacy with high flux density to enable tight beam control in directional and high lumen applications. With *Freedom from Binning*™ and leading performance, LUXEON T emitters allow system optimization by blending the perfect combination of high efficacy and low system cost. With tight Correlated Color Temperature control, LUXEON T ensures consistency in system color point.



Features

- Freedom from Binning – 3 and 5 SDCM
- Hot tested at T_j 85°C
- Typical V_f of 2.7V and lowest thermal resistance, 3K/W
- Proven reliability
- Exceeds ENERGY STAR lumen maintenance requirements
- UL-recognized component [E352519] with level 4 enclosure consideration

Benefits

- Delivers color consistency
- Ensure in application performance
- Optimized for efficacy driven applications
- Superior efficacy and light output

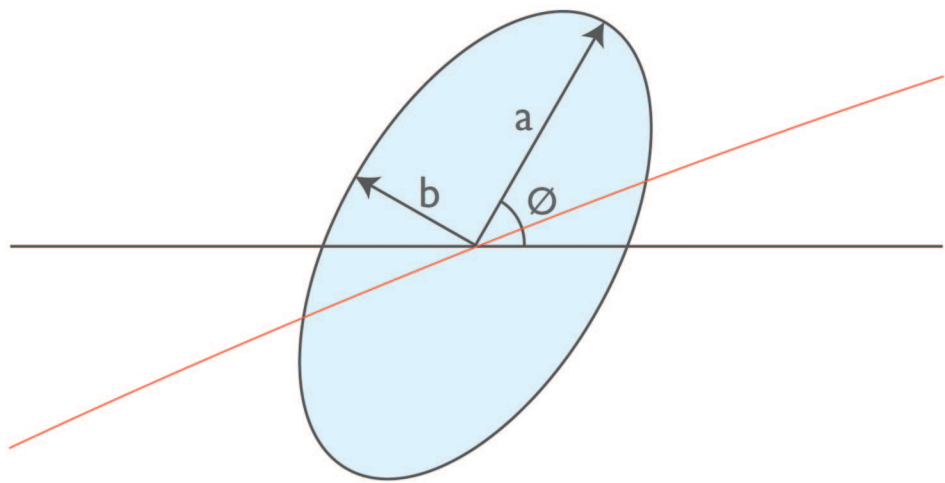
Key Applications

- Lamps
- Downlights
- Indoor
- Highbay and Lowbay
- Outdoor
- Architectural

LUXEON T Product Characteristics

Typical Performance Characteristics at 350 mA, 700 mA, and 1000 mA for LUXEON T, Junction Temperature = 85°C												
Part Number	Nominal ANSI CCT	CRI	Luminous Flux (lm) Min	Typical Luminous Flux (lm)			Typical Forward Voltage (V _f)			Typical Efficacy (lm/W)		
		700 mA	700 mA	350 mA	700 mA	1000 mA	350 mA	700 mA	1000 mA	350 mA	700 mA	1000 mA
LXH8-FW27-Y	2700K	80 min	170	100	186	254	2.71	2.80	2.86	105	95	89
LXH8-FW30-Y	3000K	80 min	180	106	197	269	2.71	2.80	2.86	112	101	94
LXH8-FW35-Y	3500K	80 min	190	112	208	278	2.71	2.80	2.86	118	106	97
LXH8-FW40-Y	4000K	80 min	190	114	212	288	2.71	2.80	2.86	120	108	101
LXH8-FW50-Y	5000K	80 min	190	120	222	300	2.71	2.80	2.86	127	113	105
LXH9-FW30-Y	3000K	95 typ	130	86	160	216	2.71	2.80	2.86	91	82	76

LUXEONT 3-Step and 5-Step MacAdam Ellipse Color Definition



Absolute Maximum Ratings

Parameter	LUXEON T
DC Forward Current (mA) ^{1,2}	1050
Peak Pulsed Forward Current (mA) ^{1,3}	1200
ESD Sensitivity	< 8000V Human Body Model (HBM) Class 3A JESD22-A114-E
LED Junction Temperature ¹	150°C
Operating Case Temperature at 700 mA	-40°C - 135°C
Storage Temperature	-40°C - 135°C
Soldering Temperature	JEDEC 020c 260°C
Allowable Reflow Cycles	3
Reverse Voltage (Vr)	LUXEON T LEDs are not designed to be driven in reverse bias



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