



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

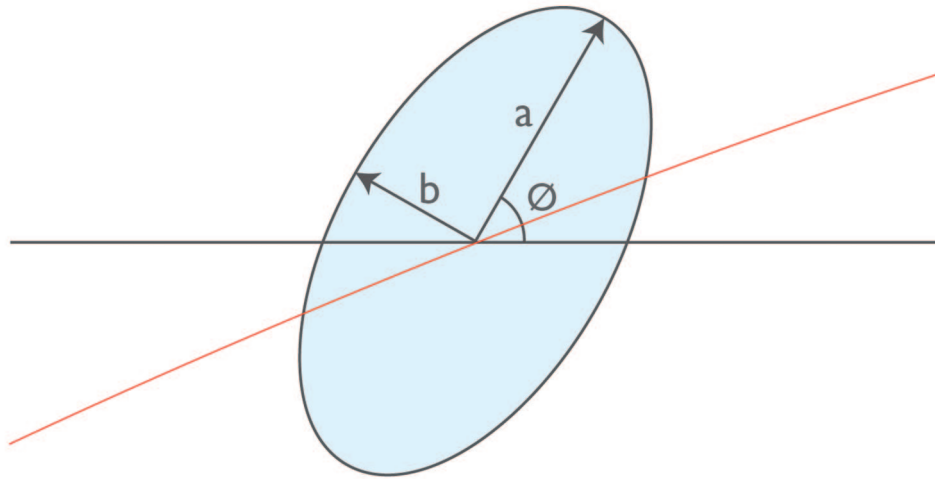
- Lamps
- Downlights
- Indoor
- Highbay and Lowbay
- Outdoor
- Architectural

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



Philips Lumileds Lighting Company shall not be liable for any kind of loss of data or any other damages, direct, indirect or consequential, resulting from the use of the provided information and data. Although Philips Lumileds Lighting Company has attempted to provide the most accurate information and data, the materials and services information and data are provided "as is" and Philips Lumileds Lighting Company neither warrants, nor guarantees the contents and correctness of the provided information and data. Philips Lumileds Lighting Company reserves the right to make changes without notice. You as user agree to this disclaimer and user agreement with the download or use of the provided materials, information and data.



©2012 Philips Lumileds Lighting Company. All rights reserved.
LUXEON is a registered trademark of the Philips Lumileds Lighting Company in the United States and other countries.

www.philipslumileds.com
www.philipslumileds.cn.com