



LUXEON T

A bright, versatile and high efficacy emitter



LUXEON T is 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 LEDs are specified, targeted and tested hot, at real world operating temperatures, 85°C, to ensure in-application performance. LUXEON T LEDs allow system optimization by blending the perfect combination of high efficacy and low system cost, while tight correlated color temperature ensures consistency in system color point.

FEATURES AND BENEFITS

3 & 5-step MacAdam ellipse: *Freedom from Binning* for superior Quality of Light

Low V_f and thermal resistance enables smaller heatsinks and higher lumens

High luminance and small optical source for precise beam control in directional applications

Superior efficacy and light output from a compact source

PRIMARY APPLICATIONS

Downlights

High Bay & Low Bay

Indoor Area Lighting

Lamps

Outdoor

LUXEON T product performance at 700mA and 350mA, T_j=85°C.

NOMINAL CCT	MINIMUM CRI ⁽¹⁾	LUMINOUS FLUX ⁽²⁾ (lm)		TYPICAL LUMINOUS EFFICACY (lm/W)	TYPICAL LUMINOUS FLUX (lm)	TYPICAL LUMINOUS EFFICACY (lm/W)	PART NUMBER
		MINIMUM	TYPICAL				
		700mA			350mA		
3000K	70	200	218	111	117	123	LXH7-FW30
4000K	70	210	249	127	133	140	LXH7-FW40
5000K	70	220	255	130	136	143	LXH7-FW50
5700K	70	220	255	130	136	143	LXH7-FW57
6500K	70	220	255	130	136	143	LXH7-FW65
2700K	80	170	186	95	100	105	LXH8-FW27-x
3000K	80	180	197	101	106	112	LXH8-FW30-x
3500K	80	190	208	106	112	118	LXH8-FW35-x
4000K	80	190	212	108	114	120	LXH8-FW40-x
5000K	80	190	222	113	120	127	LXH8-FW50-x
3000K	95 typ	130	160	82	86	91	LXH9-FW30-x

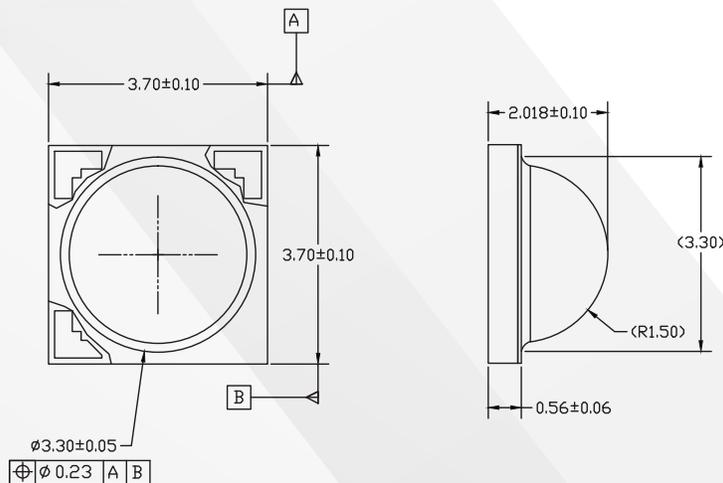
- Notes:
- Lumileds maintains a tolerance of ±2 on CRI measurements.
 - Lumileds maintains a tolerance of ±6.5% on luminous flux measurements.

LUXEON T Royal Blue product performance at test current, T_j=85°C.

PEAK WAVELENGTH (nm)		RADIOMETRIC POWER (mW)		PART NUMBER
MINIMUM	MAXIMUM	MINIMUM	TYPICAL	
445	460	950	1040	LXH1-FWRB

- Notes:
- Lumileds maintains a tolerance of ±2nm on peak wavelength measurements.

Mechanical Dimensions.



- Notes:
- Drawings are not scale.
 - All dimensions are in millimeters.

©2015 Lumileds Holding B.V. All rights reserved. LUXEON is a registered trademark of the Lumileds Holding B.V. in the United States and other countries.

lumileds.com

Neither Lumileds Holding B.V. nor its affiliates shall 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 Lumileds Holding B.V. and/or its affiliates have attempted to provide the most accurate information and data, the materials and services information and data are provided "as is," and neither Lumileds Holding B.V. nor its affiliates warrants or guarantees the contents and correctness of the provided information and data. Lumileds Holding B.V. and its affiliates reserve 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.