











LUXEON Q

Standard ceramic 3535 footprint delivering high efficacy at high-drive current



LUXEON Q delivers superior performance in a high-power LED that serves as a drop-in replacement for products that use the standard 3535 surface mount package. LUXEON Q is the first high-power LED based on the Lumileds FlipChip Technology, chip-scale package (CSP) device architecture. LUXEON Q takes advantage of a fully developed ecosystem for 3535 components, including optics, to speed the time-to-market for indoor and outdoor luminaires.

FEATURES AND BENEFITS

FEATURES AND BENEFITS	PRIMARY APPLICATIONS		
Industry standard 3535 package for optimization with existing designs	Downlights		
Lumileds FlipChip Technology for industry leading performance	High Bay & Low Bay		
High efficacy at high drive current enables high lumen and lm/\$ at high lm/W	Lamps		
3-step MacAdam ellipse color definition: <i>Freedom from Binning</i> for color consistency	Outdoor		
UL-recognized component [E352519]	Spotlights		

LUXEON Q product performance at 350mA and 700mA, T_i=85°C.

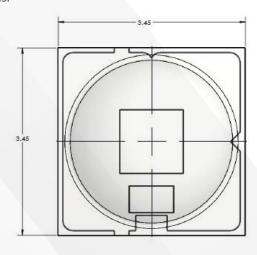
NOMINAL CCT [1]	MINIMUM - CRI [2]	LUMINOUS FLUX [3] (lm)		TYPICAL LUMINOUS	TYPICAL LUMINOUS	TYPICAL LUMINOUS	
		MINIMUM	TYPICAL	EFFICACY (lm/W)	FLUX (lm)	EFFICACY (lm/W)	PART NUMBER
			350mA		700	mA	
2700K	80	80	113	115	199	97	L1Q0-278000000zzz0
3000K	80	90	115	117	204	99	L1Q0-308000000zzz0
3500K	80	90	117	119	209	102	L1Q0-358000000zzz0
4000K	70	110	132	134	236	115	L1Q0-407000000zzz0
5000K	70	110	133	135	237	116	L1Q0-507000000zzz0
5700K	70	110	134	136	241	118	L1Q0-577000000zzz0

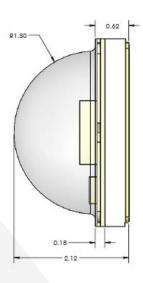
- Notes.

 1. Lumileds maintains a tolerance of ±6.5% on flux measurements.

 2. Correlated color temperature is based upon mounted die on highly reflective surface at T=25°C.

Mechanical Dimensions.





Notes:

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

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