LEDs

VLMW711 Series

Little Star® 1-W, High Bright White

VLMW711 Series

FEATURES

- Up to 114 lumens output
- Low profile with 1.5 mm height
- Cool, natural, and warm white colors

BENEFITS

- Low power consumption, long life
- Low thermal resistance, R_{thJP} from 10 K/W to 18 K/W, helps designers manage heat more efficiently
- Qualified to AEC-Q101 automotive standard

APPLICATIONS

- Solid-state lighting applications
- Street lights, architectural lighting, office lighting, under-counter home lighting, garden and accent lighting, headlights, signage backlighting, and car trim lighting

Datasheets are available on our web site at www.vishay.com
http://www.vishay.com/doc?83229
http://www.vishay.com/doc?81161
http://www.vishay.com/doc?81137

LOW POWER

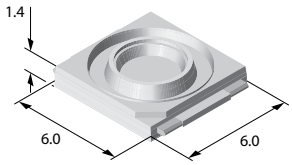
Per watt of power, LEDs provide more efficient lighting compared to incandescent and compact fluorescent lamps (CFLs). General lighting applications consume approximately 20 % of all energy. Consumers will make the shift to LED lighting because they are interested in reducing their electric bills.

Light Source	Performance (lumens/watt)
High Bright LED	90
Incandescent	15
Compact Fluorescent	60

Light Source	Life Expectancy (hours)
Incandescent (100 W)	750
Compact fluorescent	6000
High Bright LED	up to 50000

LONG LIFE

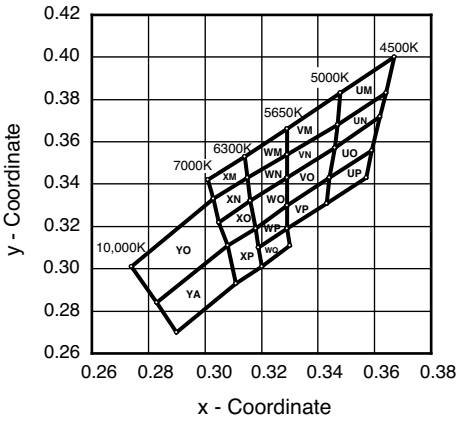
To maximize life expectancy, the temperature of an LED should be kept below its maximum junction temperature. The heat produced by an LED must be conducted away. The VLMW711 series LEDs have state-of-the-art, low thermal resistance down to 10 K/W. This greatly increases the flow of heat away from the LED junction.

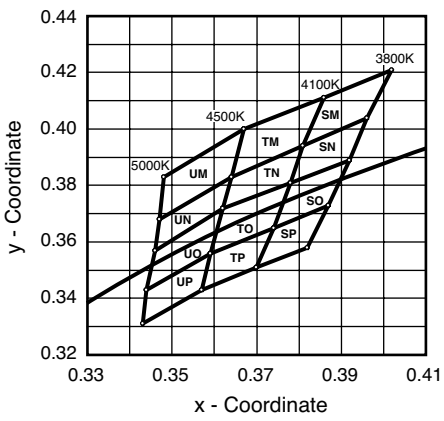


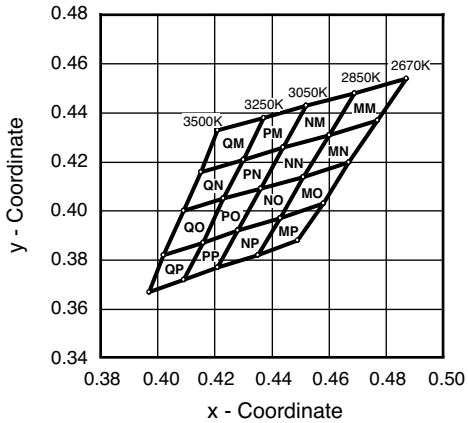
PERFORMANCE PARAMETERS

Part Number	Group	Luminous Flux, min/max Φv (lm)		Luminous Intensity, I_v (mcd)	Viewing Angle	X, Y Coordinates
VLMW711U2U3XV	U2	87	99	29 700	120°	0.33, 0.33
	U3	99	114			
VLMW711T3U2US	T3	77	87	25 000	120°	0.37, 0.38
	U2	87	99			
VLMW71S2S3QN	S2	52	59	19 000	120°	0.44, 0.41
	S3	59	67			

COLOR COORDINATES







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