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Flux Performance, Binning, and Supportability

JEDEC Moisture Sensitivity

Table 6.

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Pad Con□guration

Note for Figure 3:

1. The Thermal Pad is electrically isolated from the Anode and Cathode contact pads.

Solder Pad Design

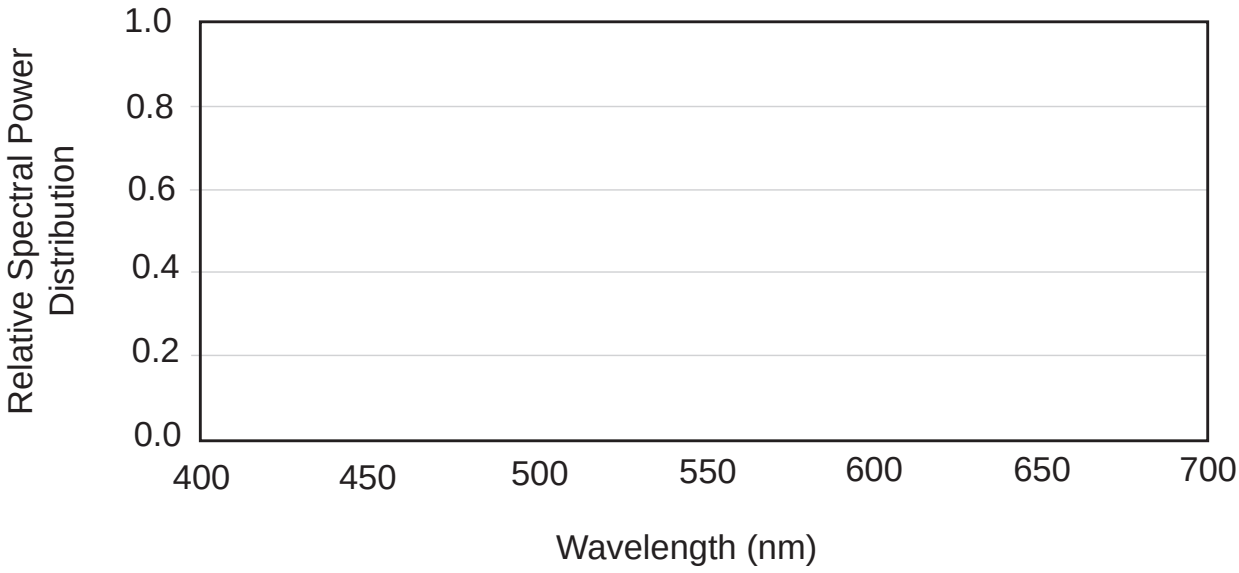
Note for Figure 4:

1. The photograph shows the recommended LUXEON Rebel Color Portfolio layout on printed circuit board (PCB). This design easily achieves a thermal resistance of 7K/W.

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Wavelength Characteristics

LUXEON Rebel Green, Cyan, Blue, Royal Blue, Red, Red-Orange, Amber at Test Current, 25°C



LUXEON Rebel ES Lime and LUXEON Rebel PC Amber at 350mA, 25°C or 85°C

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Typical Light Output Characteristics

Typical Radiation Patterns

Spatial Radiation Pattern for LUXEON Rebel Green, Cyan, Blue, Royal Blue and LUXEON Rebel ES Royal Blue and Blue

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Typical Radiation Patterns, Continued

Spatial Radiation Pattern for LUXEON Rebel Deep Red

Polar Radiation Pattern for LUXEON Rebel Deep Red

Typical Radiation Patterns, Continued

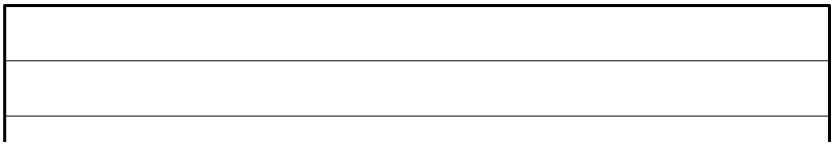
Spatial Radiation Pattern for LUXEON Rebel PC Amber

Polar Radiation Pattern for LUXEON Rebel PC Amber

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Typical Chromaticity Characteristics

Chromaticity Characteristics vs. Temperature



Chromaticity Characteristics vs. Forward Current, Junction Temperature = 25°C

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Product Binning and Labeling

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Luminous Flux Bins

Forward Voltage Bins

Color Bins, Continued

Table 20. Dominant Wavelength Bin Structure for Red

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Color Bins for PC Amber and Lime

Table 24.

LUXEON Rebel PC Amber Bin Coordinates			
Bin Code	Bin Code	x	y
PC Amber	2	0.5622 0.5576 0.5775 0.5843	0.4372 0.4326 0.4132 0.4151
Lime	A0	0.3819 0.4191 0.4327 0.3972	0.5055 0.5790

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