



LUXEON SunPlus 2835 Line

LEDs engineered to deliver the precise wavelengths of light needed to improve crop yield



The LUXEON SunPlus 2835 Line is purpose-built to enable ease of system design for Horticulture applications. The LUXEON SunPlus 2835 Line offers the only LEDs available today that are binned and tested based on Photosynthetic Photon Flux (PPF). The LUXEON SunPlus 2835 Line includes options for single driver solutions and multi-channel, color tunable solutions.

FEATURES AND BENEFITS

120° angle for uniform light distribution for greenhouse, vertical farming and interweaving applications

2.8 x 3.5mm package

PRIMARY APPLICATIONS

Horticulture

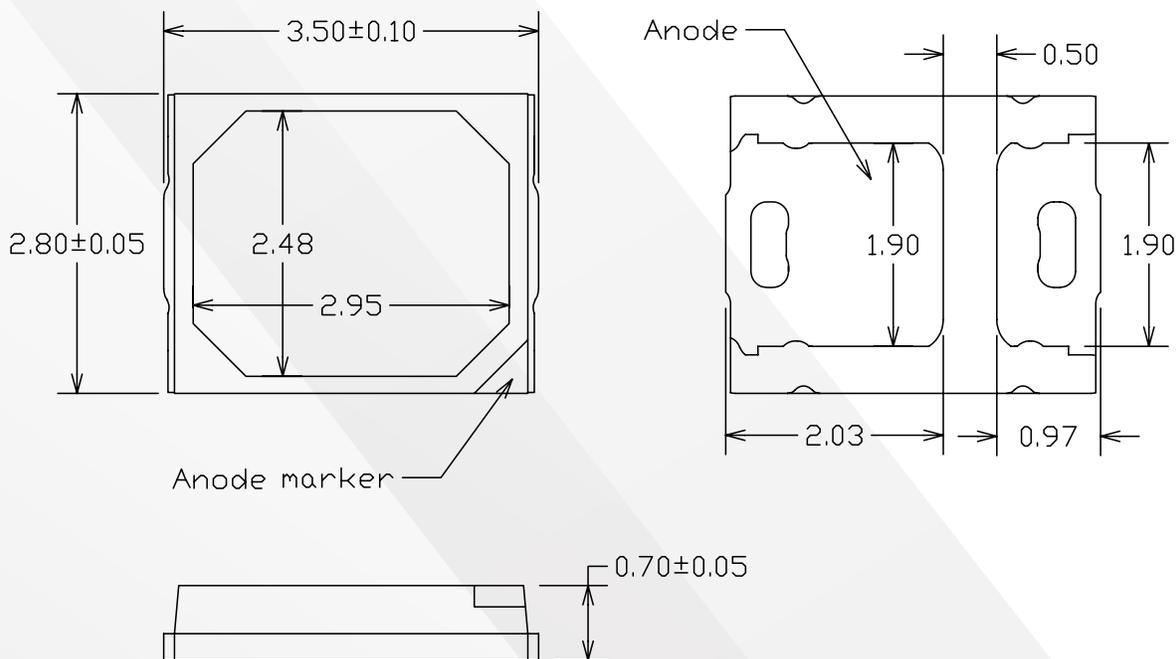
LUXEON SunPlus 2835 Line product performance at 120mA, T_j=25°C.

COLOR	PEAK WAVELENGTH (nm)		PPF (μmol/s) ^[1] in PAR (400 to 700nm) ^[2]		PPF/W TYPICAL (μmol/J)	PART NUMBER
	MINIMUM	MAXIMUM	MINIMUM	TYPICAL		
Horticulture White	-	-	0.71	0.78	2.28	L1SP-PNK1002800000
Purple (2.5% Blue) ^[4]	-	-	0.58	0.63	1.84	L1SP-PRP0002800000
Purple (12.5% Blue) ^[5]	-	-	0.64	0.70	2.04	L1SP-PRP1002800000
Purple (25% Blue) ^[6]	-	-	0.67	0.74	2.16	L1SP-PRP2002800000
Far Red	720	740	0.54	0.60 ^[3]	2.32	L1SP-FRD0002800000
Deep Red	650	670	0.56	0.62	2.32	L1SP-DRD0002800000
Royal Blue	440	455	0.67	0.74	2.06	L1SP-RYL0002800000
Lime	-	-	0.72	0.80	2.22	L1SP-LME0002800000

Notes:

1. Lumileds maintains a tolerance of ±7.5% on μmol/s measurements for LUXEON SunPlus 2835.
2. PAR is the photosynthetic active radiation from 400 to 700nm.
3. Far Red typical PPF is measured from 700 to 800nm.
4. PPF in blue spectrum (420–480nm) ranges from 0–5% of total PPF in PAR (400–700nm). Typical PPF in the blue spectrum is 2.5%.
5. PPF in blue spectrum (420–480nm) ranges from 10–15% of total PPF in PAR (400–700nm). Typical PPF in the blue spectrum is 12.5%.
6. PPF in blue spectrum (420–480nm) ranges from 20–30% of total PPF in PAR (400–700nm). Typical PPF in the blue spectrum is 25%.

Mechanical Dimensions.



Mechanical dimensions for LUXEON SunPlus 2835 Line.

Notes:

1. Drawings are not to scale.
2. All dimensions are in millimeters.