

LumiDrives

Product Data

LumiLine LED Arrays

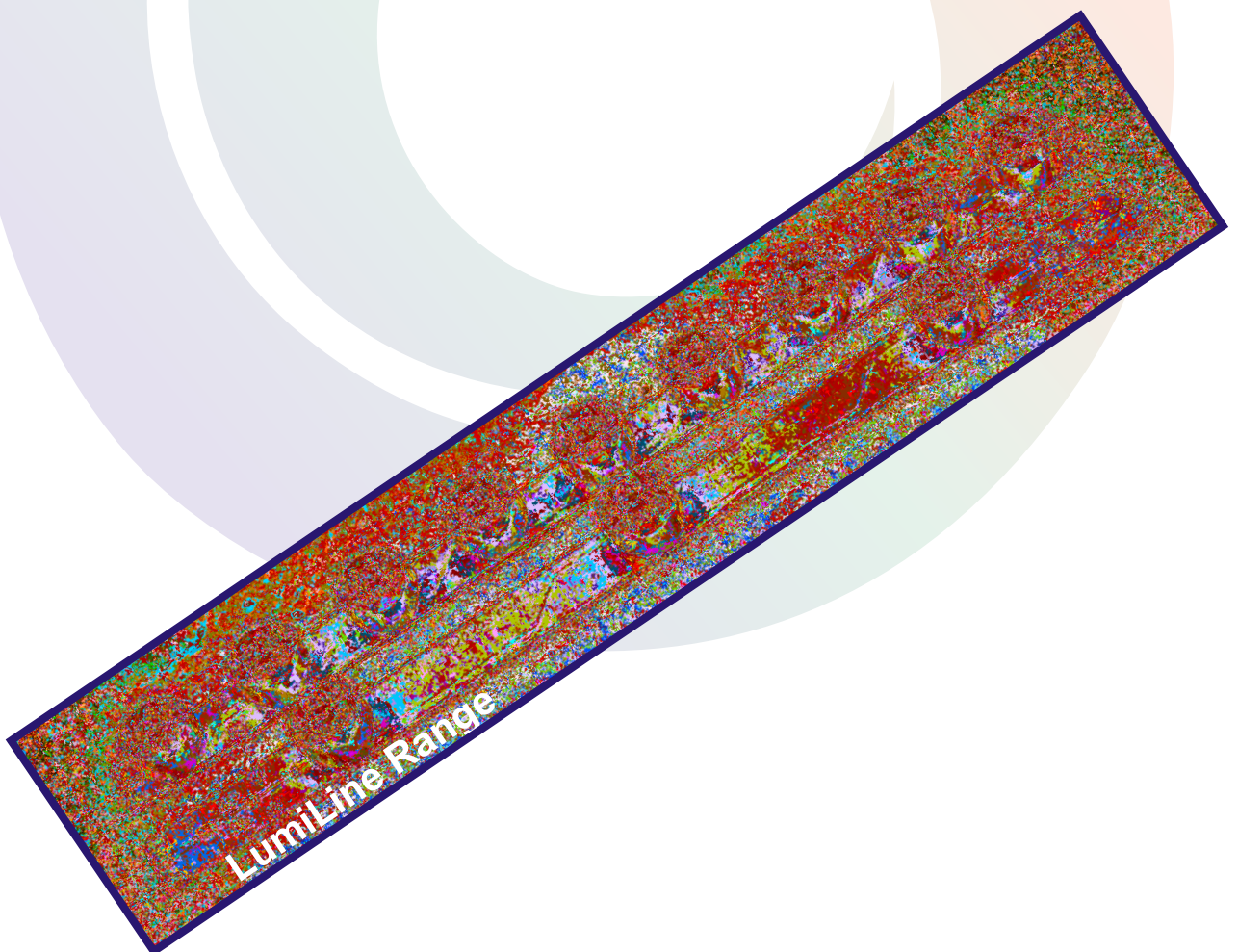
The LumiLines are a range of two linear LED arrays designed to complement the Lumidrives range of Microdrivers and are ideal for a myriad of OEM solutions.

They can be driven either singly or in multiples (depending on the total number of LEDs and the driver used), giving an increased level of flexibility in lighting design.

The PCBs can easily be solder-linked end-to-end, and when three units are linked together, this produces a one metre length of LED lighting.

The Optics and optic holders used are from the new F-Form range, exclusive to Lumidrives. The optic holders are in white to match the white surface of the PCBs, which helps to maximise light output.

These units are available in a selection of LED colours and optic angles.



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Data Sheet - LumiLines - Issue-A

Page 1

Specifications

Electrical

Power Consumption Max.	Red / Amber White / Blue	1.0W per LED 1.2W per LED
Maximum Current	350mA	
LEDs	Luxeon I	
Compatible Drivers (depending on no. of LEDs)	MicroDriver 3, MicroDriver 9, MicroDriver LV3, MicroDriver LV9, MultiDriver 8 and VariLED 16	

Circuit Configuration



Environmental

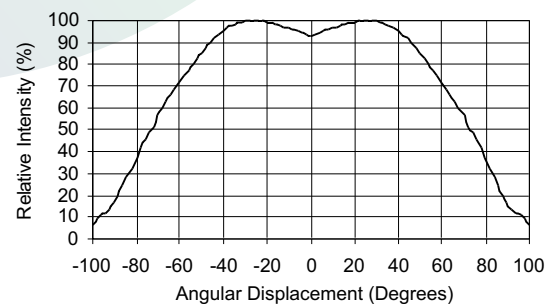
Absolute Maximum PCB Temperature	+105°C
Recommended Maximum PCB Temperature	+55°C
LED Life @ 55°C PCB Temperature	50,000 hours

Mechanical

Construction	1.6mm Aluminium Clad PCB Substrate
Dimensions	See Page 5
Finish	White Solder Resist

Optical

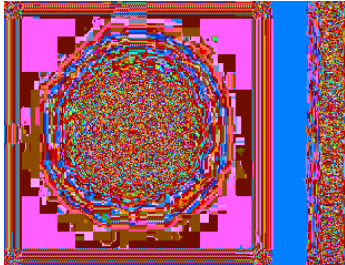
LED Colour	LumiLine 3		LumiLine 9	
	Watts	Lumens/mW	Watts	Lumens/mW
(Luxeon 1) Red	3	90	9	270
Green	3	63	9	189
Blue	3	315mW	9	945mW
White	3	51	9	153
Amber	3	75	9	225
Warm White	3	42	9	126



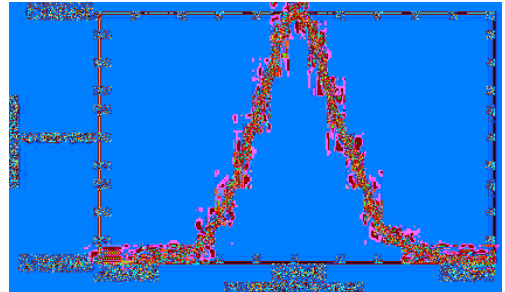
Lambertian LED Radiation Pattern

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All **LumiDrives** F'FORM lenses are made of optical grade PMMA (acrylics) to ensure excellent optical properties as well as long-term material stability and durability.



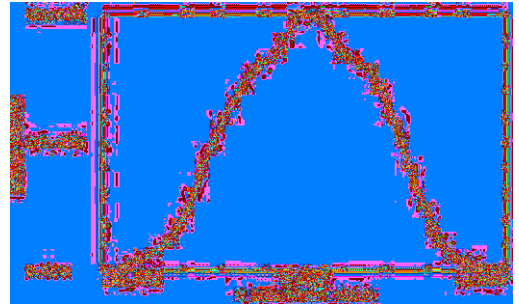
Typical Narrow Distribution
Spot Lens - 5°



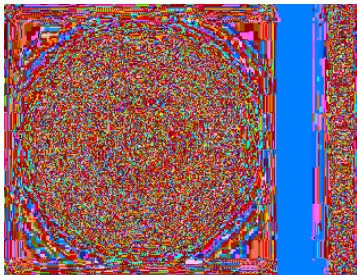
Typical half-angle divergence 5°
when using 1W White Luxeon



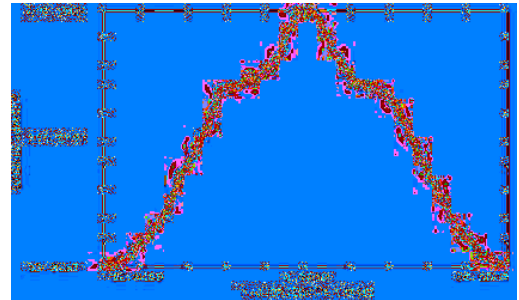
Typical Medium Distribution
Medium Lens - 15°



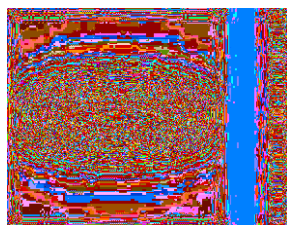
Typical half-angle divergence 15°
when using 1W White Luxeon



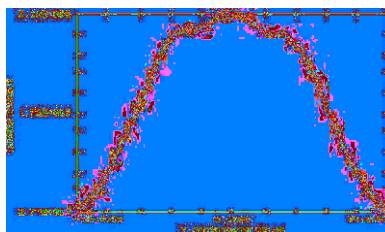
Typical Wide Distribution
Wide Lens - 25°



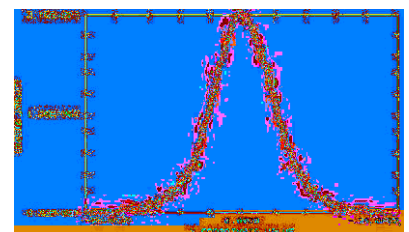
Typical half-angle divergence 25°
when using 1W White Luxeon



Typical Oval Distribution
Oval Lens - 5° x 20°



Horizontal



Vertical

Typ. half-angle divergence 5° x 20° (1W White Luxeon)

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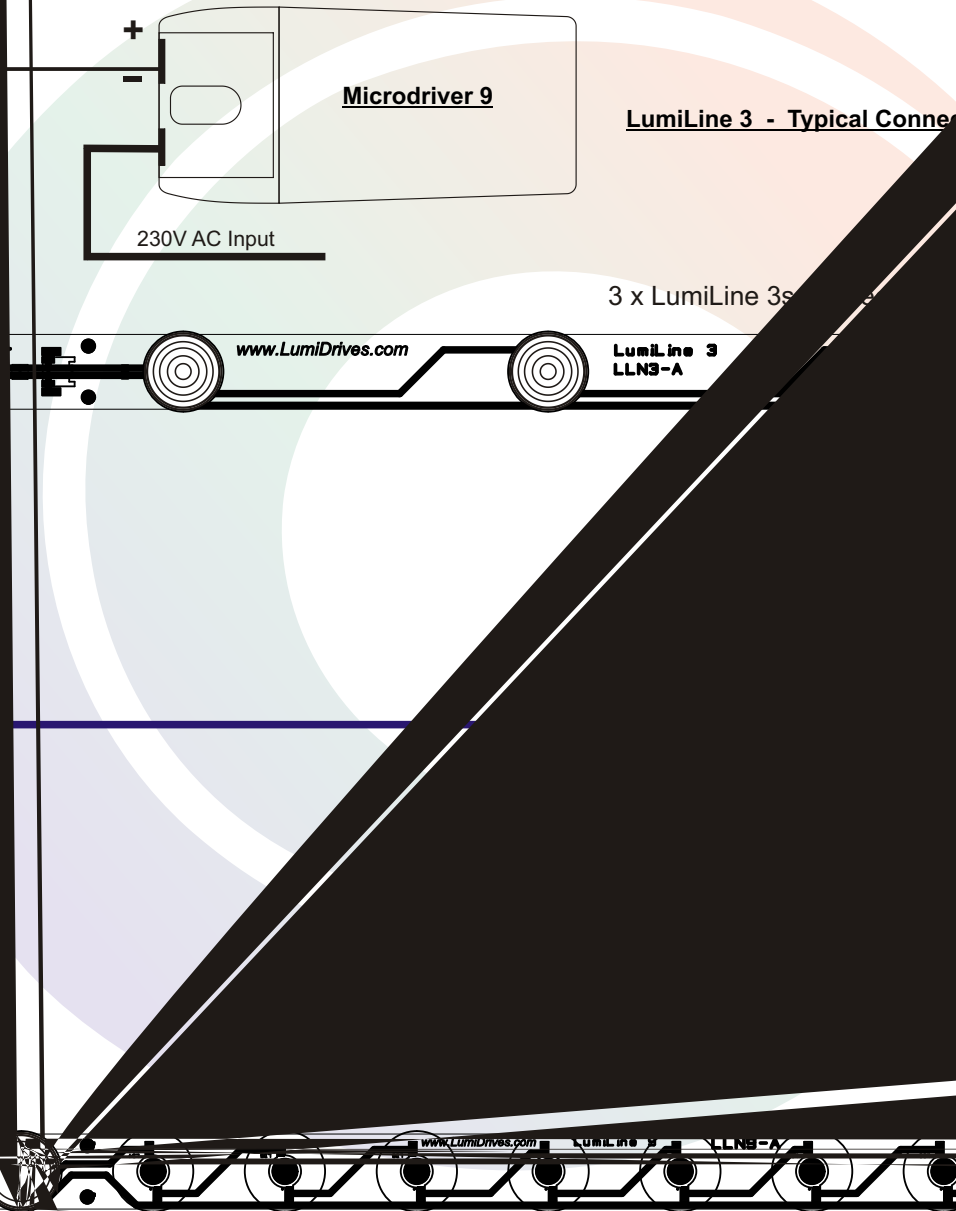
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Connecting



Descriptions



LumiLine 3 - **Dimensions = 324mm x 20.5mm**

This is a three LED linear array which can be driven with the Microdriver-9, the Microdriver-LV9 or the Solus-6.

The LumiLine 3 will fit snugly into a standard 25mm wide aluminium “U” channel and can either be screwed or glued to a heatsink structure.



LumiLine 9 - **Dimensions = 324mm x 20.5mm**

This is a nine LED linear array which can be driven with the Microdriver-9 or the Microdriver-LV9.

The LumiLine 3 will fit snugly into a standard 25mm wide aluminium “U” channel and can either be screwed or glued to a heatsink structure.

Selection Guide

LLN9 - XX - YYY

Order Codes

LumiLine 3 LLN3-X-YYY
 LumiLine 9 LLN9-X-YYY

LumiLine 9

Colour

R = Red
 G = Green
 B = Blue
 W = White
 A = Amber
 WW = Warm White

Optics

005 = 5° Optics
 015 = 15° Optics
 025 = 25° Optics
 520 = Oval Optics

