

LumiLine LED Arrays

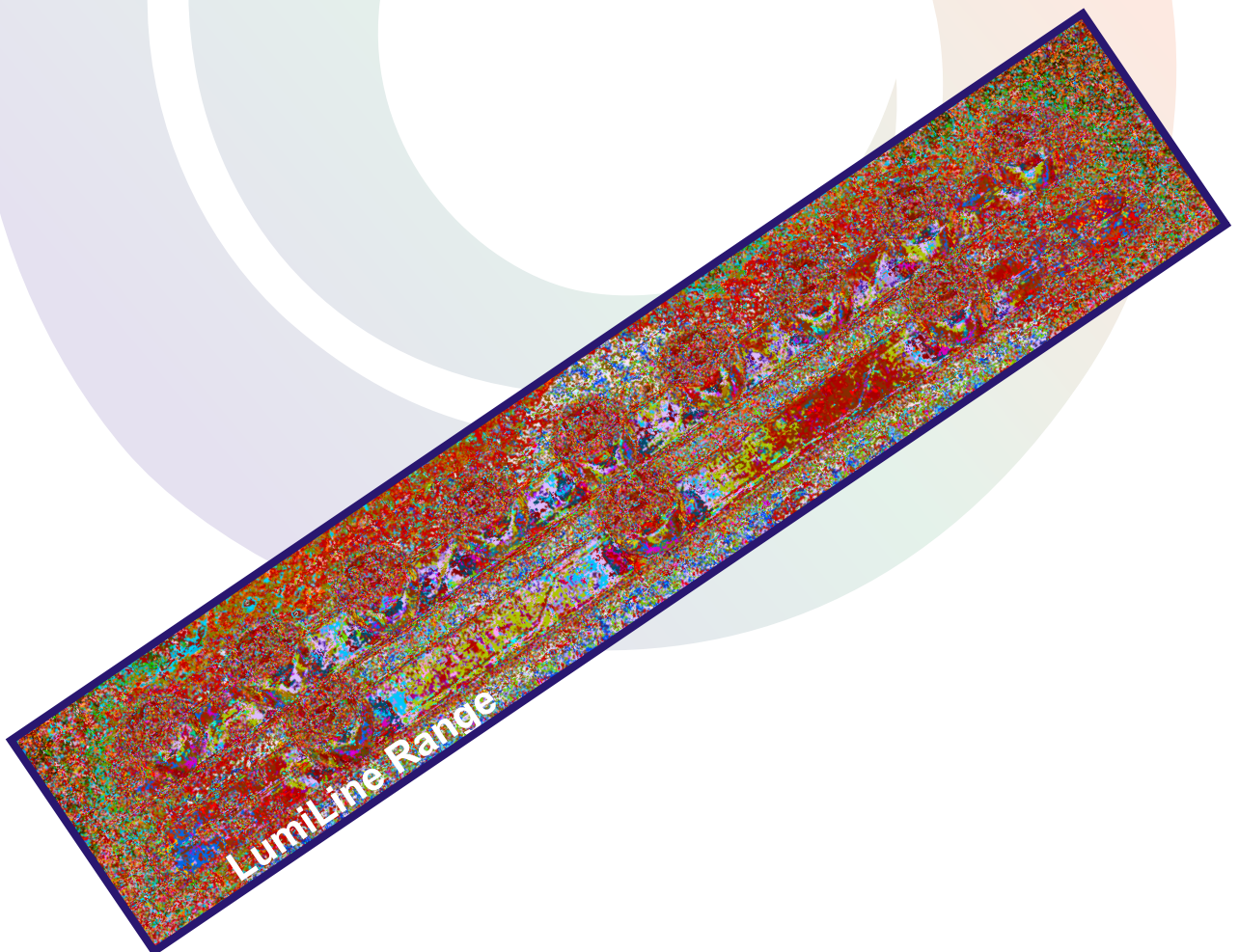
The LumiLines are a range of two linear LED arrays designed to complement the Lumidrives range of Microdrivers and are ideal for a myriad of OEM solutions.

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.



© 2004 LumiDrives Ltd. LumiDrives, the LumiDrives logo, Colourdriver, LinkLED, Lifesaver and Liquid Lens are registered trademarks. All other brand or product names are trademarks of their respective owners. Specifications subject to change without notice. Patents Pending.



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

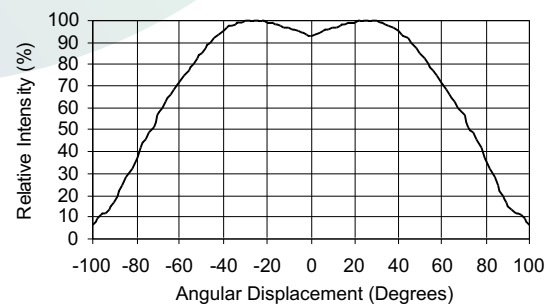
Absolute Maximum PCB Temperature	+105°C
Recommended Maximum PCB Temperature	+55°C
LED Life @ 55°C PCB Temperature	50,000 hours

Mechanical

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

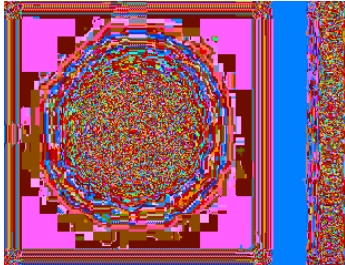
Optical

LED Colour	LumiLine 3		LumiLine 9	
(Luxeon 1)	Watts	Lumens/mW	Watts	Lumens/mW
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

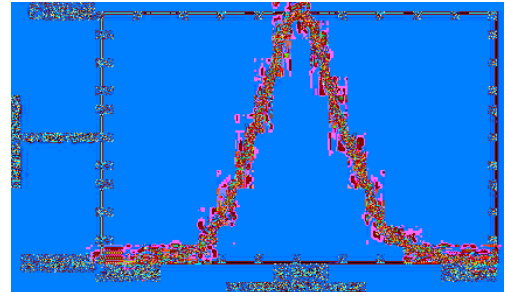


Lambertian LED Radiation Pattern

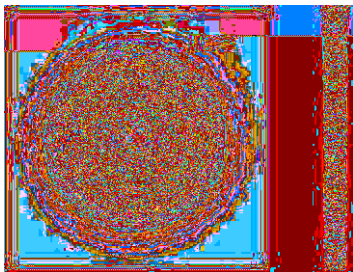
All **LumiDrives** F'FORM lenses are made of optical grade PMMA (acrylics) to ensure excellent optical properties as well as long-term material stability and durability.



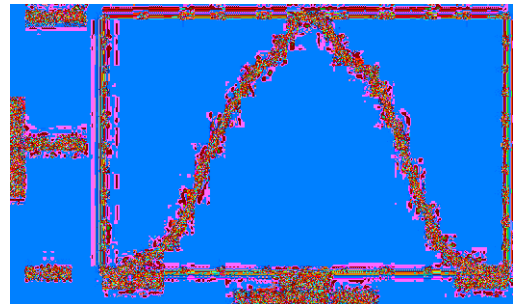
Typical Narrow Distribution
Spot Lens - 5°



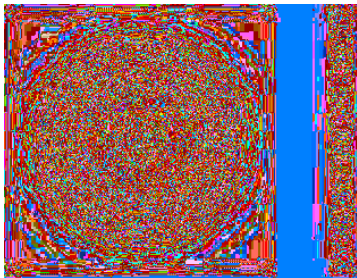
Typical half-angle divergence 5°
when using 1W White Luxeon



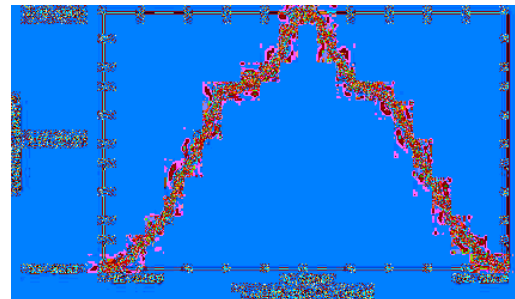
Typical Medium Distribution
Medium Lens - 15°



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



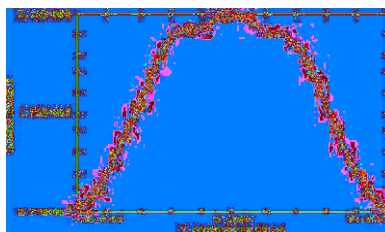
Typical Wide Distribution
Wide Lens - 25°



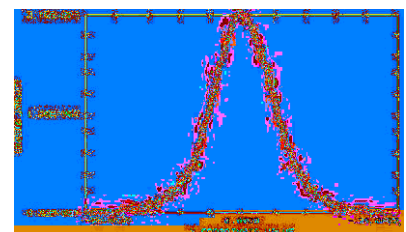
Typical half-angle divergence 25°
when using 1W White Luxeon



Typical Oval Distribution
Oval Lens - 5° x 20°



Horizontal



Vertical

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

© 2004 LumiDrives Ltd. LumiDrives, the LumiDrives logo, Colourdriver, LinkLED, Lifesaver and Liquid Lens are registered trademarks. All other brand or product names are trademarks of their respective owners. Specifications subject to change without notice. Patents Pending.



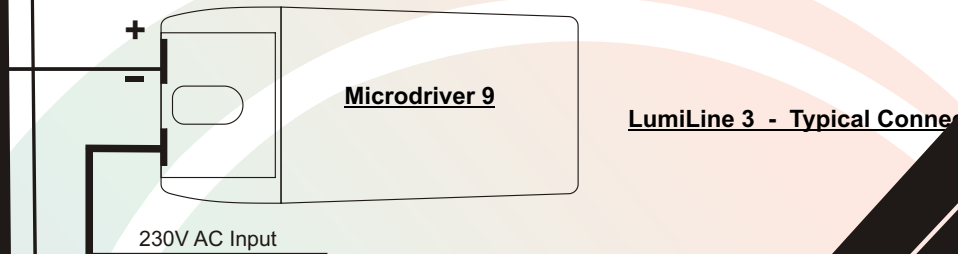
LUXEON
SOLUTIONS CENTRE

© 2004 LumiDrives Ltd - Manse Lane - Knaresborough - North Yorkshire - HG5 8LF - United Kingdom
Tel: +44 (0)1423 798255 - Fax: +44 (0)1423 798266 - www.lumidrives.com

Data Sheet - LumiLines - Issue-A

Page 3

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
LumiLine 9

LLN3-X-YYY
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