

LuxiLine Datasheet

Precision, Uniform & Compact machine vision lighting



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LuxiLine

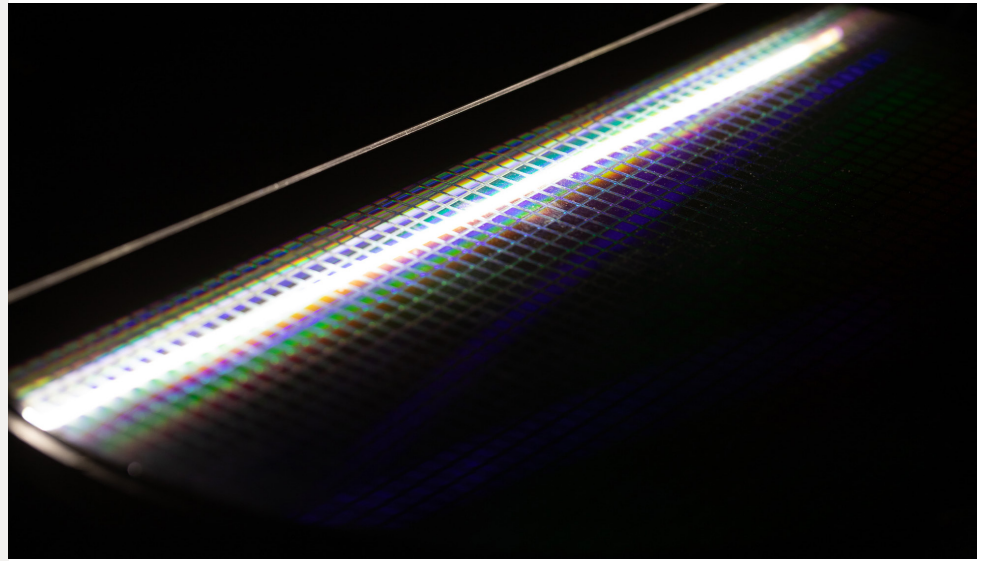
INTRODUCTION



Production Name:
LuxiLine

Reference:
LL-XX

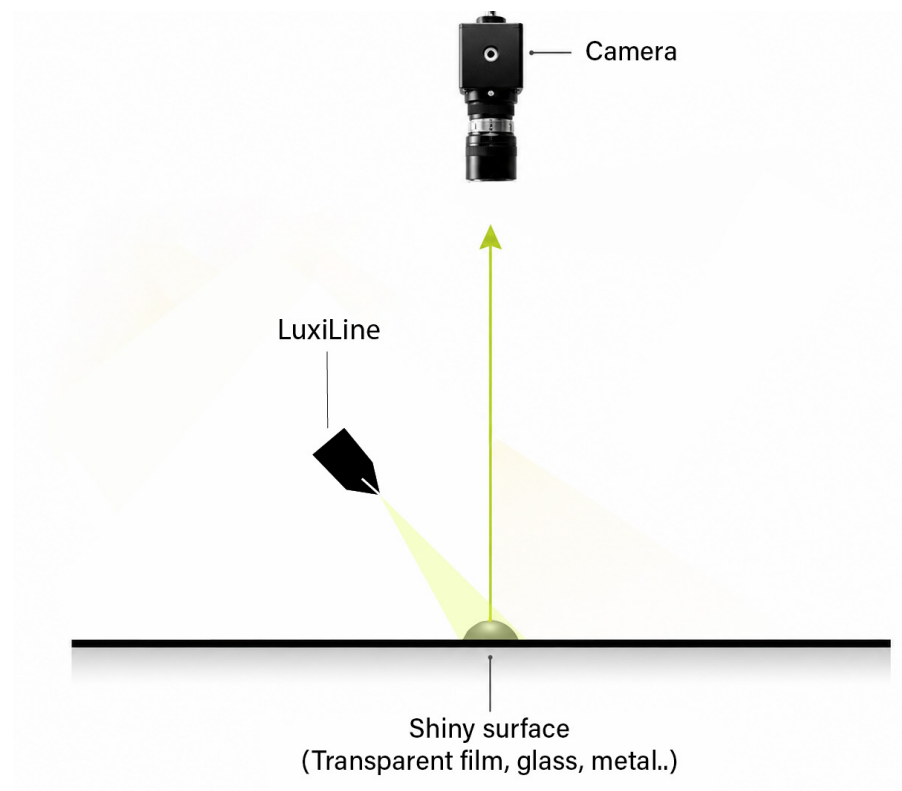
Product Category:
Machine Vision Lighting



LuxiLine: MACHINE VISION LIGHTING

Uniform, precise & compact, powered by LuxiBright® technology.

Ultra-compact and lightweight, LuxiLine delivers 100% usable length: a 300 mm bar means 300 mm of perfectly uniform lighting — where conventional bars waste up to 40% of their length. Powered by our exclusive LuxiBright® technology, it guarantees the same light intensity from the first to the last pixel. Available in 3 standard sizes, custom lengths on request.



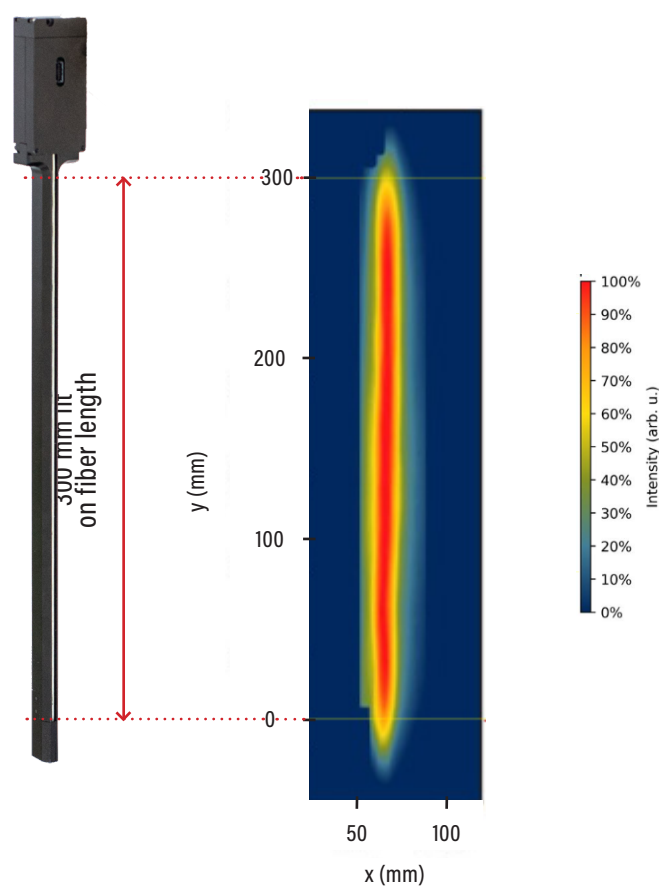
PRODUCT OVERVIEW

LINE SIZES			
	LuxiLine 300 mm	LuxiLine 600 mm	LuxiLine 900 mm
			
Reference	LL-300	LL-600	LL-900
Size (mm)	300 mm	600 mm	900 mm

CONTROLLER			
	4 Operating Modes	Autostrobe	Dimming
	- Continuous at nominal current. - Rising Edge + Overdrive. - Following Pulse Overdrive. - 0-10 Volts Intensity Dimming.	Automatic overdrive brightness when product is strobed <10µs.	On continuous mode and overdrive mode.

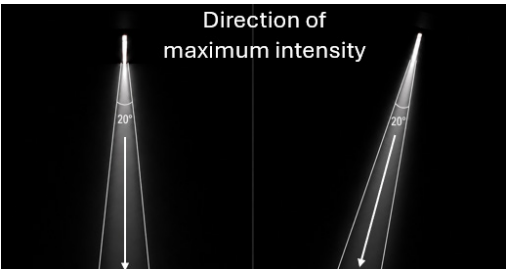
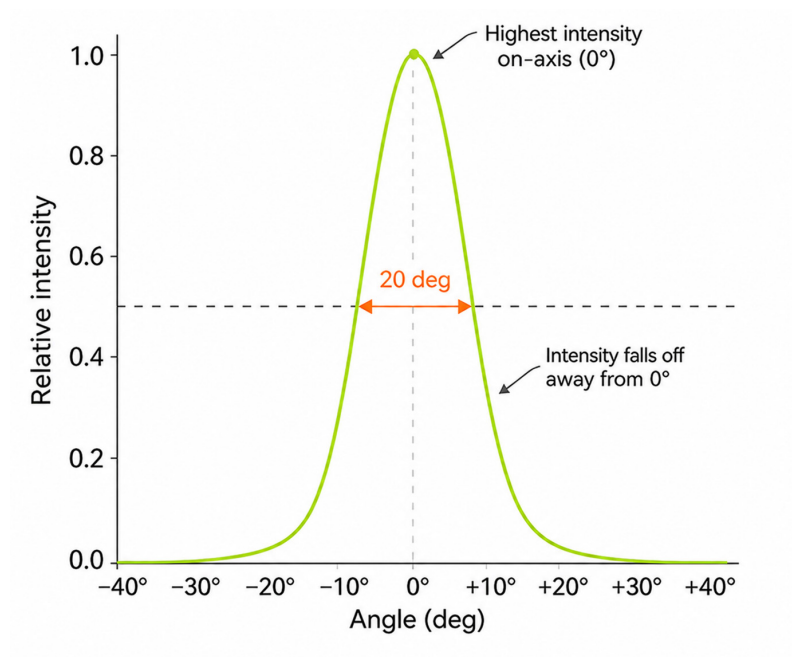
CABLING	
	L.E.S.S. Cables
	Power supply cable: It connects the cable between the L.E.S.S. controller and the LuxiLine.
	Standard m12 5 pins
	Compliant with industry standards: - 24 VDC - GND - Trigger Input - Dimming 0-10 VDC (20-100%)

LIGHT UNIFORMITY - LuxiLine 300 mm

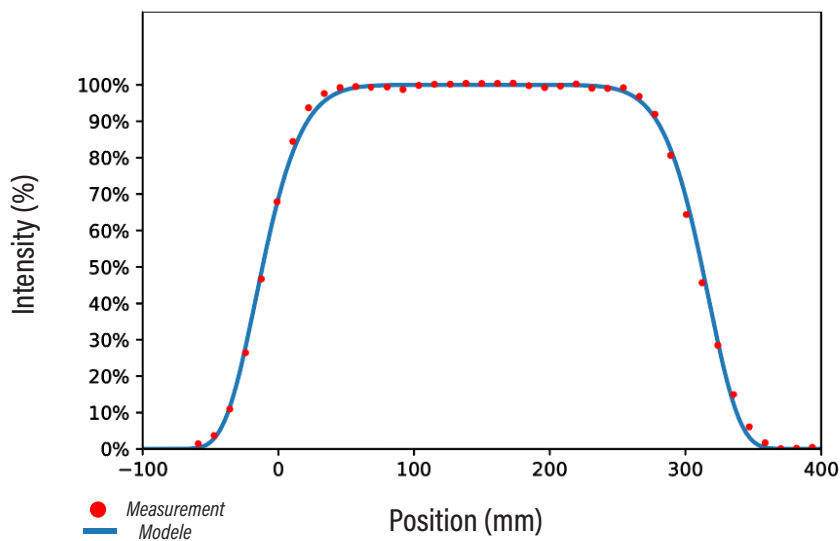


10 mm distance, 40 deg tilted

LIGHT INTENSITY



UNIFORM INSPECTION AREA

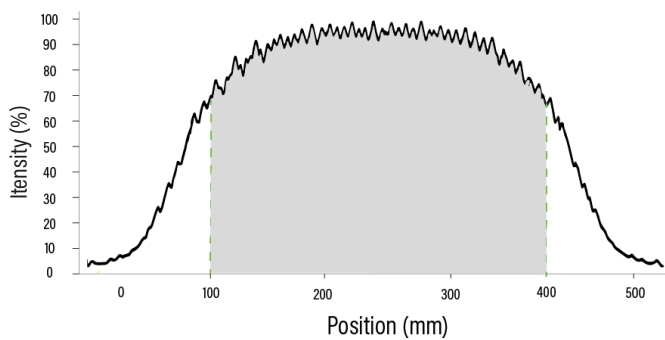
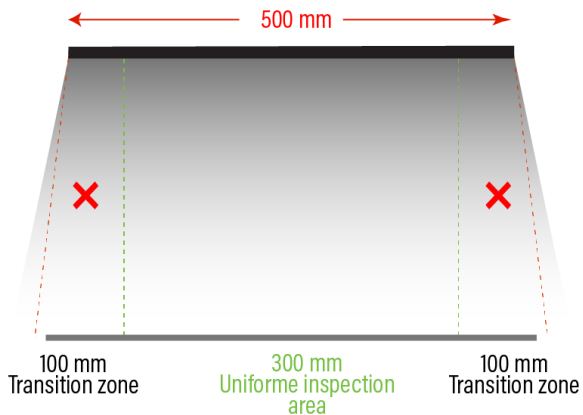


LIGHT FIELD COMPARISON

CONVENTIONAL LED BAR LIGHTS

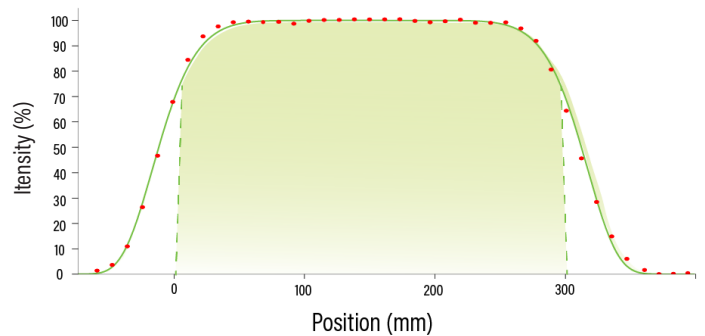
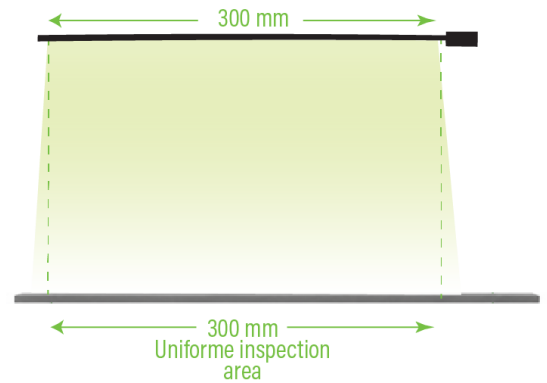


LUXILINE POWERED BY LUXIBRIGHT LIGHTING



Need 500mm to get 300mm of uniform light

Usable Length
60%
(300/500mm)



300mm product = 300mm of uniform lighting

Usable Length
100%
(300/300mm)

TECHNICAL SPECIFICATIONS

MECHANICAL SPECIFICATIONS

Variant	Product Reference	Hole Position*	Interface	Frame Material	Weight
LuxiLine 300 mm	LL-300	2 x Ø3 Dowel Pins	2 x M3 holes depth 6mm	Anodized Aluminium	≤ 220g
LuxiLine 600 mm	LL-600				≤ 320g
LuxiLine 900 mm	LL-900				≤ 420g
Controller interface**	DIN Rail adaptor TS35				

OPTICAL SPECIFICATIONS

Part reference	Illuminance at optimal working distance
LL-300	>300'000 lx at 10 mm nominal >500'000 lx at 10 mm with over mode
LL-600	>150'000 lx at 10 mm nominal >250'000 lx at 10 mm with over mode
LL-900	>100'000 lx at 10 mm nominal >150'000 lx at 10 mm with over mode

ELECTRICAL SPECIFICATIONS

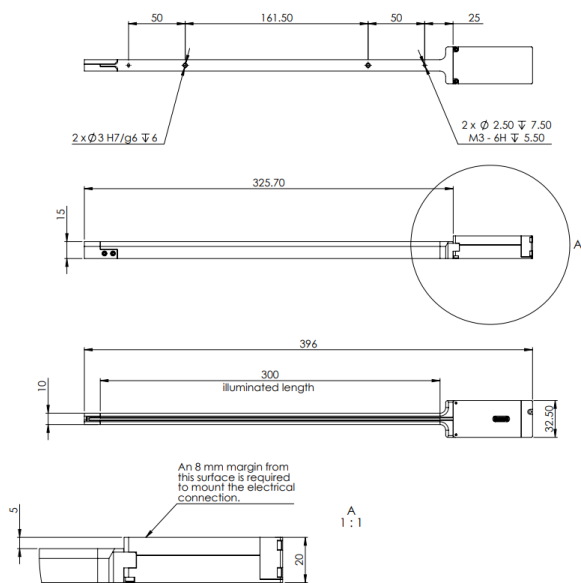
Electrical interface	24 VDC / GND / Trig In
Max. Power Consumption	19W (Overdrive), 12W (Nominal)
Overdrive ratio	x 2
Strobe reactivity	<10µs

ENVIRONNEMENTAL SPECIFICATIONS

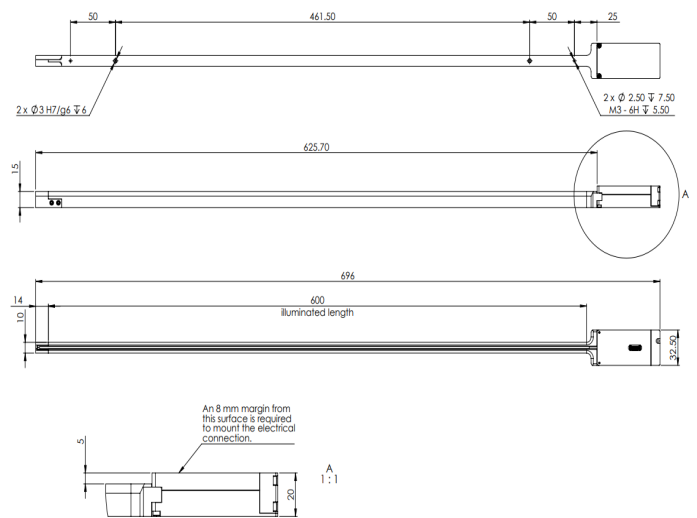
Working temperature	0-40°C
IP rating	IP 30

DIMENSIONS

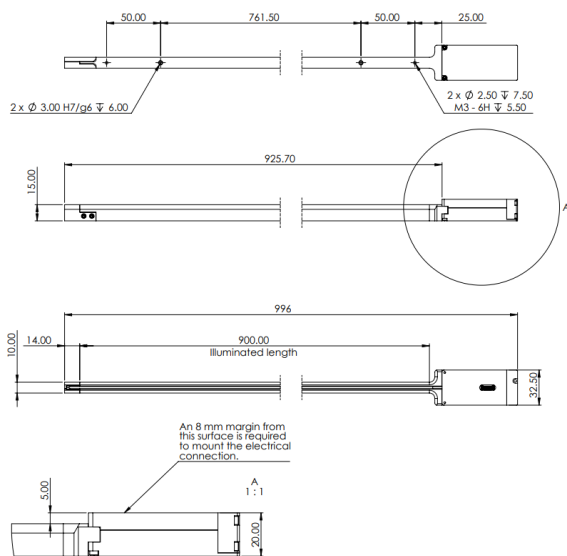
LuxiLine 300 mm



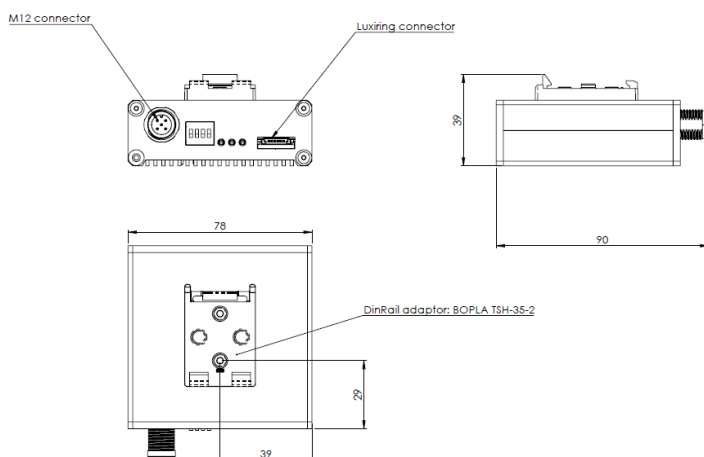
LuxiLine 600 mm



LuxiLine 900 mm



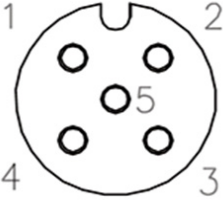
Controller



ACCESSORIES & CABLING

Accessories	
Cables	Controller
	
AC-CBL-1M* AC-CBL-2M**	CTRL-LR-LL

TE Connectivity / ERNI iBridge Ultra. * Cable Length 1 meter.
** Cable Length 2 meters.

M12 5-Pin Male Connector			
Controller's input: 5 wires terminal-to M12 5-pin-power supply and external trigger			
Reference Drawing	Pin Number	Signal	Wire Color
 Ref : AC-M12-1.5	1	+24 VDC	Brown
	2	Analog Dimming (0-10 V)	White
	3	GND	Blue
	4	Trigger Input (12-26 VDC)	Black
	5	N.C.	Grey

Light source connector: I/O connector:
*Analog dimming range: 0-10 VDC.
At 0 VDC, light intensity is 20%; at 10 VDC, light output is 100%.

