

Lotus

LED Linelight



An LED alternative to Fluorescent lighting

Recognising that market conditions require an energy efficient LED replacement for fluorescent high frequency, high output linear lights, ProPhotonix have developed the LOTUS LED Line Light. The LOTUS was designed using proven LED technology techniques to provide an alternative solution to fluorescent illumination for use in Machine Vision applications.

The LOTUS has a unique compact design which utilises the latest LED technology combined with an integrated optical system to produce a high output and highly uniform line light. The flexible design ensures LOTUS is well suited to both back lighting and front lighting applications, providing a broad and uniform beam in lengths up to 5 metres.

Key Features

- 5 year lifetime with Maintenance free operation
- Stable colour temperature and intensity over the lifetime
- High energy efficiency
- Stable and uniform factory-set light output
- Integrated optics for increased intensity and extended working distance
- Robust, compact mechanical design with IP65 enclosure
- Available in a range of wavelengths
- Any length available up to 5 metres, in 100mm increments
- Integrated intensity control
- No ballast or controller required. Power directly from 24 VDC.

Key Applications

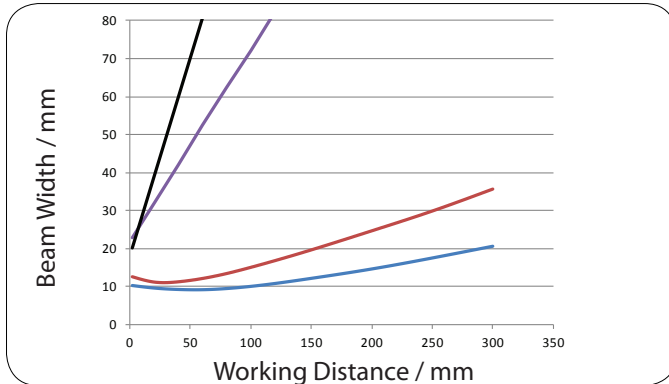
- Linescan
- Web

White Lotus LED Line Light

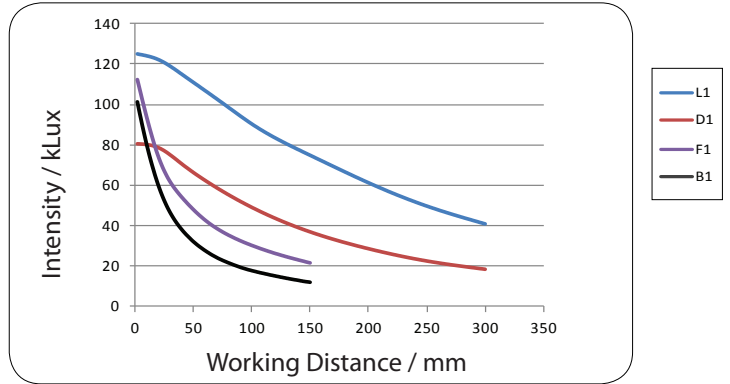
Optical Characteristics

LOTUS is available in a range of optical configurations: L1, D1, F1 and B1. See pg 4 for more information

Beam Width versus Working Distance

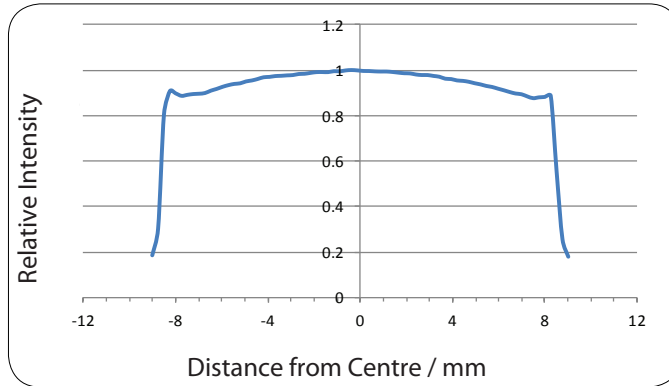


Intensity versus Working Distance

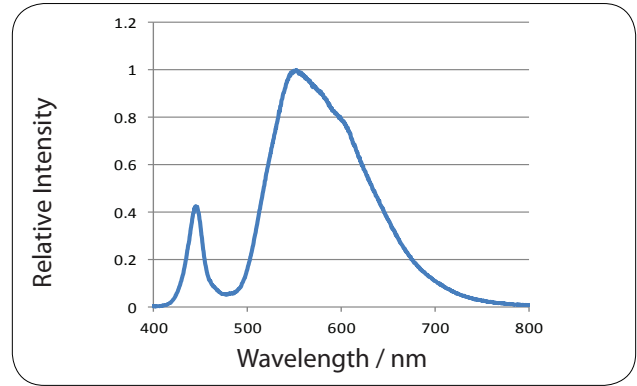


For information on longer working distances click [here](#)

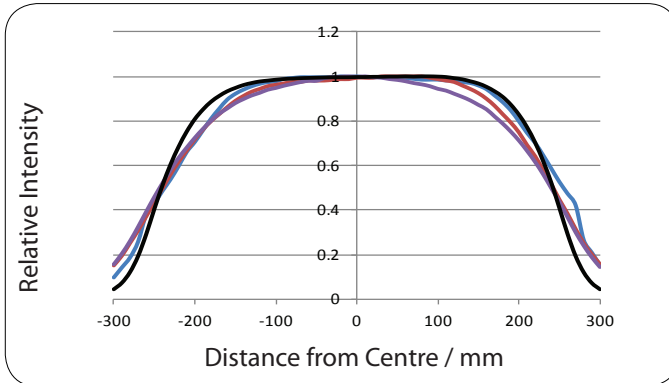
Profile Across The Emitting Aperture - B1



Spectral Distribution - White



Uniformity - White



Note: Profiles for L1, D1, and F1, were measured at a working distance of 100 mm. Profile for B1 was measured at a working distance of 50mm

Maximum Intensity, L1, WD=0mm

		White
Irradiance	W/m ²	307
Illuminance	kLux	125

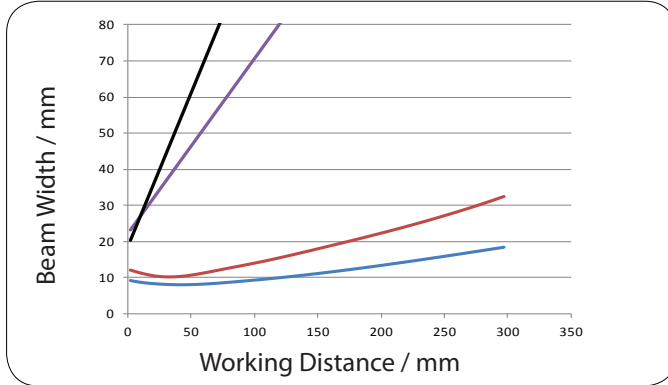
Spectral Characteristics

		White
Peak Wavelength ¹	nm	552±10
Spectral Width FWHM	nm	>115
Colour Temperature	K	5170-5370

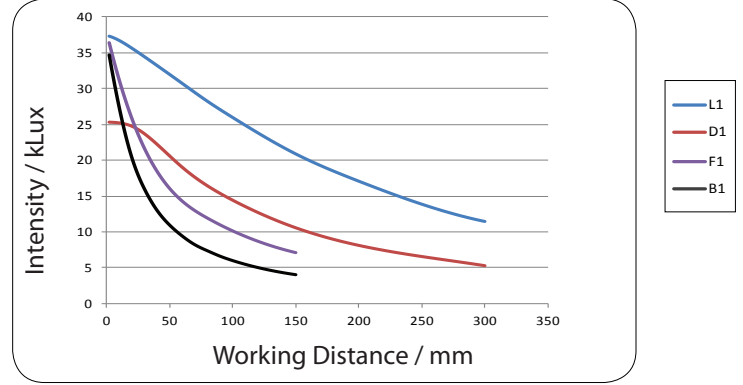
(1) nominal wavelength and tolerance due to thermal shifting and phosphor coating

Red Lotus LED Line Light

Beam Width versus Working Distance

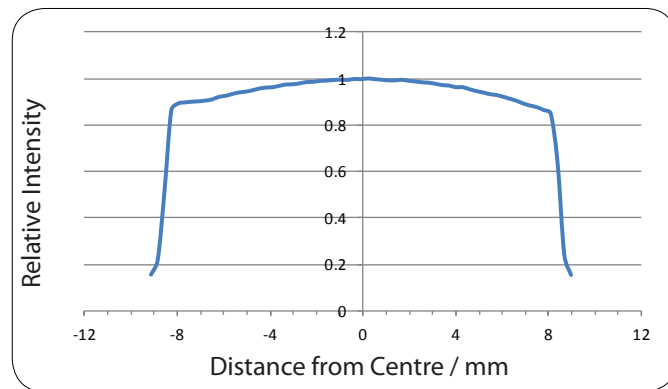


Intensity versus Working Distance

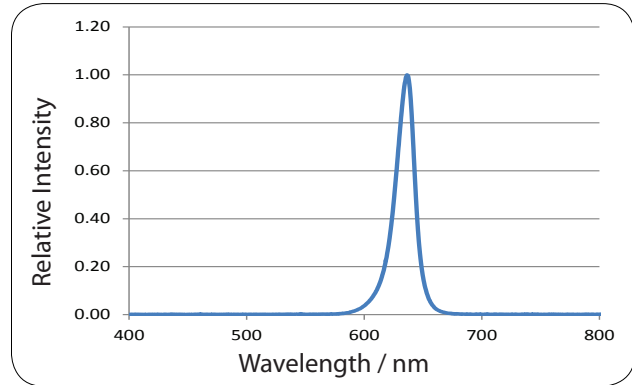


For information on longer working distances click [here](#)

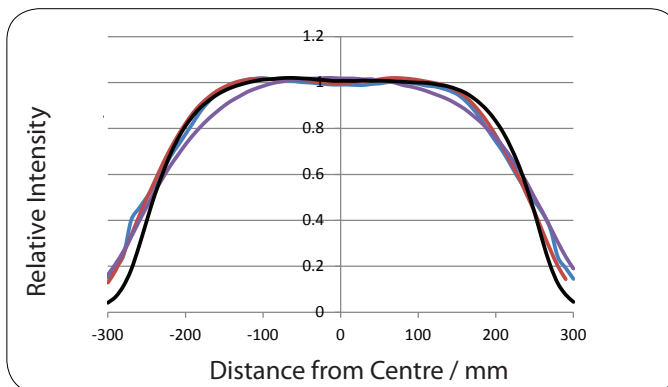
Profile Across The Emitting Aperture - B1



Spectral Distribution - Red



Uniformity - Red



Note: Measured values for L1, D1, and F1 are valid at a working distance of 100 mm. Measured B1 value is valid at a working distance of 50mm

Maximum Intensity, L1, WD=0mm

		Red
Irradiance	W/m ²	217
Illuminance	kLux	37.3

Spectral Characteristics

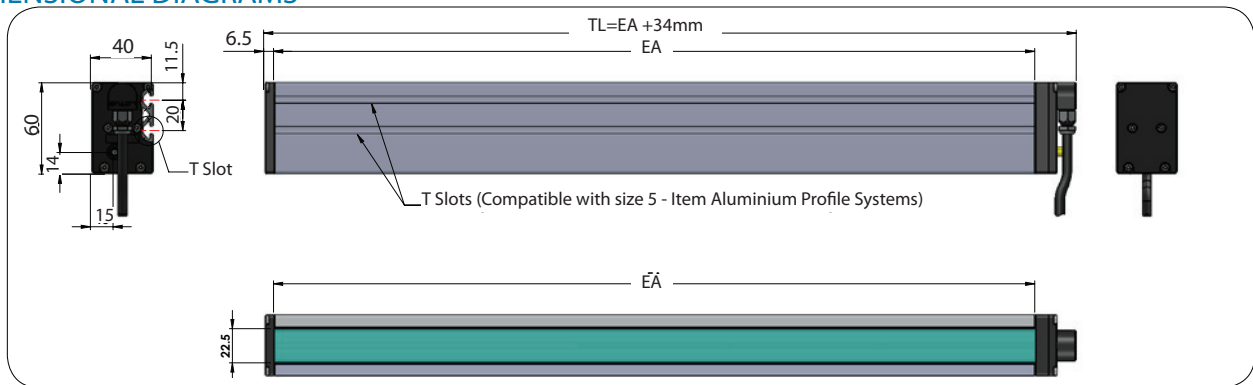
		Red
Peak Wavelength ¹	nm	636±5
Spectral Width FWHM	nm	18

(1) nominal wavelength and tolerance due to thermal shifting.

Part Numbers

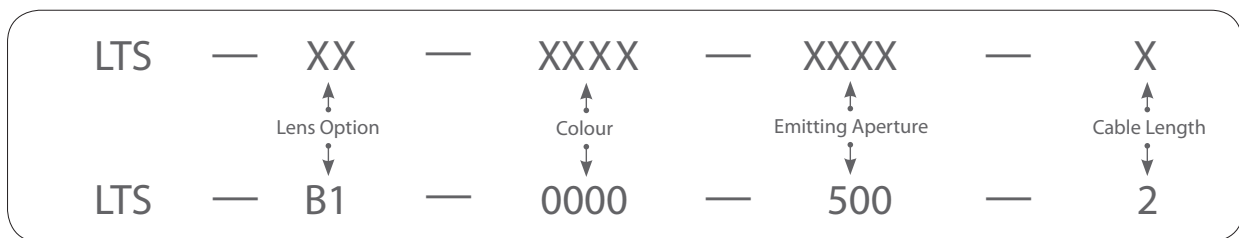
Product Name	Optical Configuration	Colour/Wavelength	Emitting Aperture	Cable Length (m)
LTS	F1: 30° x 4° diffuser	0000-Neutral White	Steps of 100mm	1m steps
	B1: 60° diffuser	000C-Cool White		
	L1: Collimating lens	000W-Warm White		
	D1: Collimating lens + 30° x 4° diffuser	0365 - UV		
		0395 - UV		
		0450-royal blue		
		0475-Blue		
		0510-Cyan		
		0525- Green		
		0590-Amber		
		0615-Red orange		
		0630-red		
		ORGB-red,green,blue		
	WHBL-white blue			
RDBL-Red, Blue				

DIMENSIONAL DIAGRAMS



Lotus LED Linelight is covered by a 1 year warranty. For backlight configuration ProPhotonix recommend B1

To order your Lotus LED Line light use the product code LTS – Select Lens option(F1/B1/L1/D1) – Select Colour (XXXX) – Select Emitting Aperture (XXXX) – Select Cable Length in m (X)



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