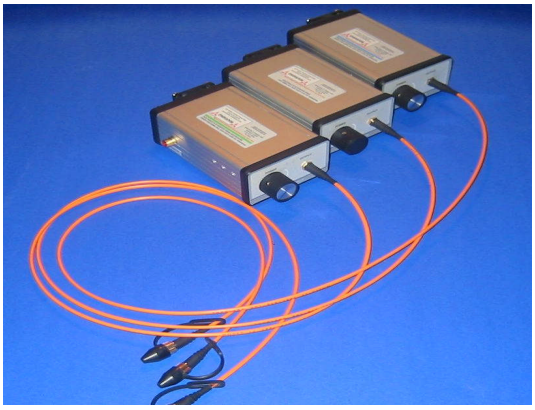
Model: LE-1x-C / (LE-1x-CE enhanced power)

Single- channel fiber coupled LED source



- Compact multi-mode fiber coupled LED source
- "Plug and play" with built-in drivers and active air cooling
- 10- 40 mW of optical power (~980 um core size fiber)
- One meter long FC or SMA connectorized fiber output
- Power regulation and remote on/off control
- Good power and spectral stability
- Low electrical power consumption (DC5V; 0.6A).

LE-1x-C is a stable, plastic optical fiber coupled LED source, operating within visible spectra wavelengths. Source has front panel knob for power control and can be remotely switched on/off. Source is designed for different laboratory and industrial applications (spectroscopy, optical sensing, inspection, OCT etc.). Maximum output optical power measured at the end of ~ 1 meter long optical fiber pigtail is 8 to 40 mW, depending on the wavelength and model.

Accessories:

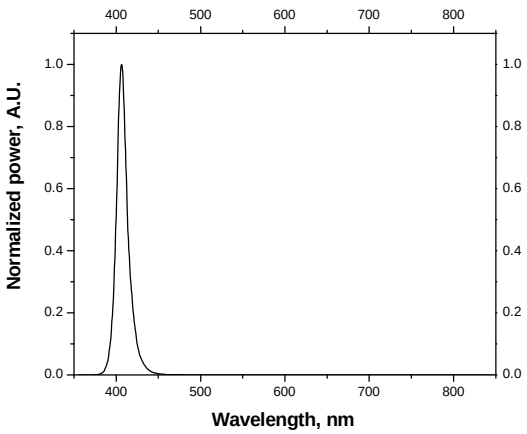
- Optical collimators for POF fiber with focusing (models: 016; 011-TU2 ; 015)
- Microlensed fiber pigtails to focus, collimate light at short working distance
- Extension and hybrid fiber patch cords
- Fiber combiner/ Fiber array
- Fiber U-bench

Options:

- Higher optical power with larger core size fiber
- Output connectors: SMA; ST; Versalink; glass capillary joint; metal ferrule
- Analog or RF modulation input
- Battery powered

LE-1U-C/CE: (400-410nm)

Description	LE-1B-C	LE-1B-CE	Unit
Maximum output power:	8-12	call	mW
Spectral width* (BW @ 3dB)	14-20		nm
Output power stability*	0.05-0.1		dB
Long-term operating wavelength drift *	±1.5- ±3.0		nm
Dimensions	~ 170×80 x 45		mm
Remote ON/Off control repetition rate	0-1.5		kHz
Connector type	FC or SMA		
Fiber core size	POF 980/1000		um
Operating temperature	10 – 35		^{o}C



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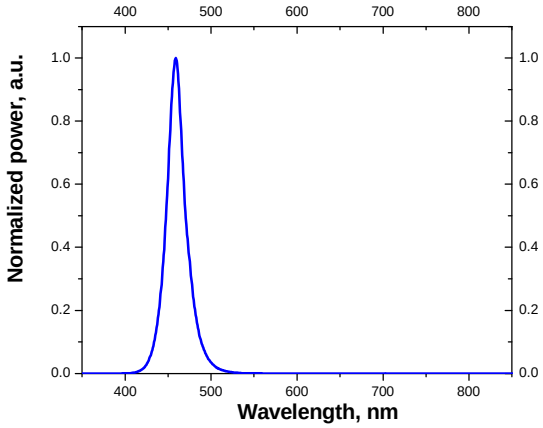
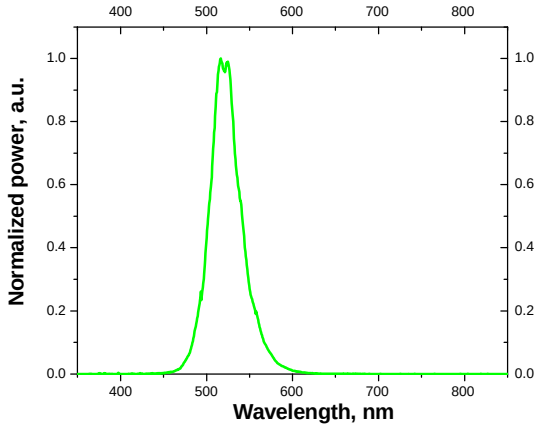
LE-1B-C/CE: (440-465nm)

Description	LE-1B-C	LE-1B-CE	Unit
Maximum output power:	8-12	25-40	mW
Spectral width* (BW @ 3dB)	20-25		nm
Output power stability*	0.05-0.1		dB
Long-term operating wavelength drift *	±1.5- ±3.0		nm
Dimensions	~ 170×80 x 45		mm
Remote ON/Off control repetition rate	0-1.5		kHz
Connector type	FC or SMA		
Fiber core size	POF 980/1000		um
Operating temperature	10 – 35		^{o}C



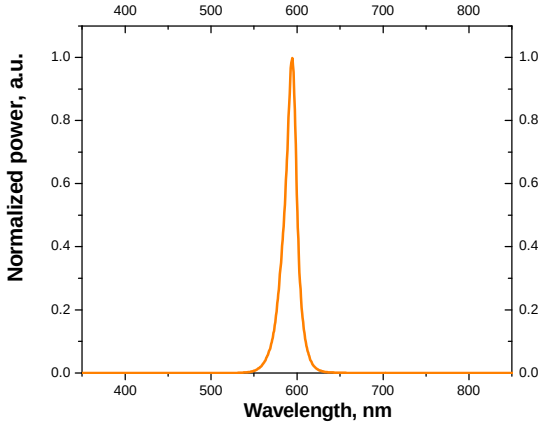
LE-1G-C/CE: (500-535nm)

Description	LE-1G-C	LE-1G-CE	Unit
Maximum output power:	8-12	25-40	mW
Spectral width* (BW @ 3dB)	28-40		nm
Output power stability*	0.05-0.1		dB
Long-term operating wavelength drift *	±1.5- ±3.0		nm
Dimensions	~ 170×80 x 45		mm
Remote ON/Off control repetition rate	0-1.5		kHz
Connector type	FC or SMA		
Fiber core size	POF 980/1000		um
Operating temperature	10 – 35		^{o}C



LE-1Y-C/CE: (~ 585- 595 nm)

Description	LE-1Y-C	LE-1Y-CE	Unit
Maximum output power:	8-12	call	mW
Spectral width* (BW @ 3dB)	14-20		nm
Output power stability*	0.05-0.1		dB
Long-term operating wavelength drift *	±1.5- ±3.0		nm
Dimensions	~ 170×80 x 45		mm
Remote ON/Off control repetition rate	0-1.5		kHz
Connector type	FC or SMA		
Fiber core size	POF 980/1000		um
Operating temperature	10 – 35		^{o}C



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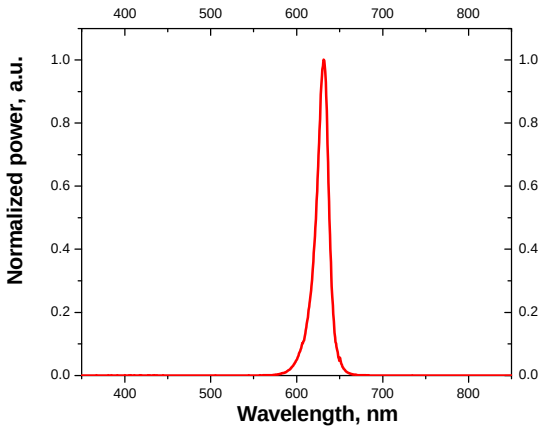
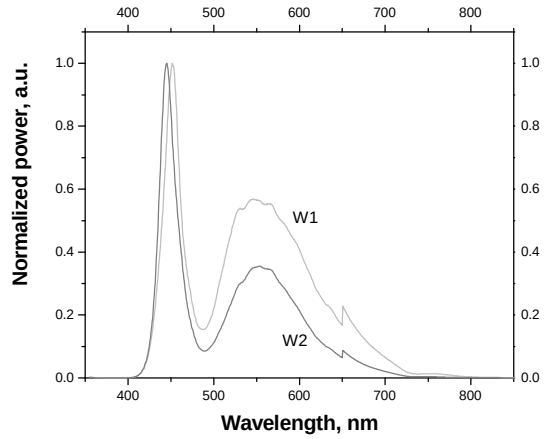
LE-1R-C/CE: (620-640nm)

Description	LE-1R-C	LE-1R-CE	Unit
Maximum output power:	8-10	15-20	mW
Spectral width* (BW @ 3dB)	14-20		nm
Output power stability*	0.05-0.1		dB
Long-term operating wavelength drift *	±1.5- ±3.0		nm
Dimensions	~ 170×80 x 45		mm
Remote ON/Off control repetition rate	0-1.5		kHz
Connector type	FC or SMA		
Fiber core size	POF 980/1000		um
Operating temperature	10 – 35		^{o}C



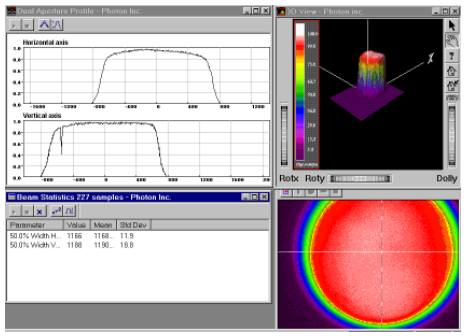
LE-1W-C/CE:

Description	LE-1W-C	LE-1W-CE	Unit
Maximum output power:	8-12	30-40	mW
Spectral width* (BW @ 3dB)	14-20		nm
Output power stability*	0.05-0.1		dB
Long-term operating wavelength drift *	±1.5- ±3.0		nm
Dimensions	~ 170×80 x 45		mm
Remote ON/Off control repetition rate	0-1.5		kHz
Connector type	FC or SMA		
Fiber core size	POF 980/1000		um
Operating temperature	10 – 35		^{o}C



Near optical field distribution

Manufacturing process involves active optical fiber alignment to ensure uniform optical near field distribution at the end of multi-mode optical fiber pigtail. Two dimensional scan of near field distribution is provided for each manufactured device.



Burn-in testing

All fiber-coupled LED modules are tested at maximum output power for period ~24-48 hours before delivery.

Please contact WT&T sales@wttechnology.com for further details.
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