

Prizmatix

FC-LED-BBW Fiber Coupled Broadband White LED Light Source for Spectroscopy

Ver. 2.1

Introduction

The FC-LED-BBW Fiber-Coupled Broadband White LED is a light source for spectroscopy applications.

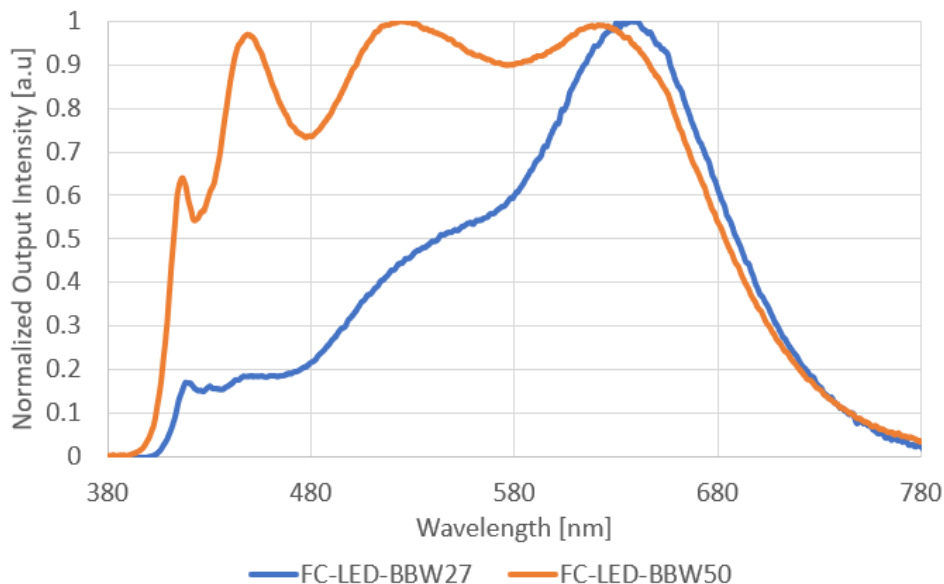
FC-LED-BBW features wide emission spectrum from 400nm to 750nm. This wide spectrum is excellent for various reflection and transmission spectroscopy applications as well as color measurements. The FC-LED-BBW is a self-contained light source including all necessary driver electronics and thermal management, no special controller box is required to operate the module except a DC power adaptor.



Key Features

- The output connector can accept simple fiber patch cord or multi-branch fiber bundle (e.g. 7 branch). The output power will be similar at all fibers.
- Long life (no lamp or laser tube replacement required)

Optical Specifications



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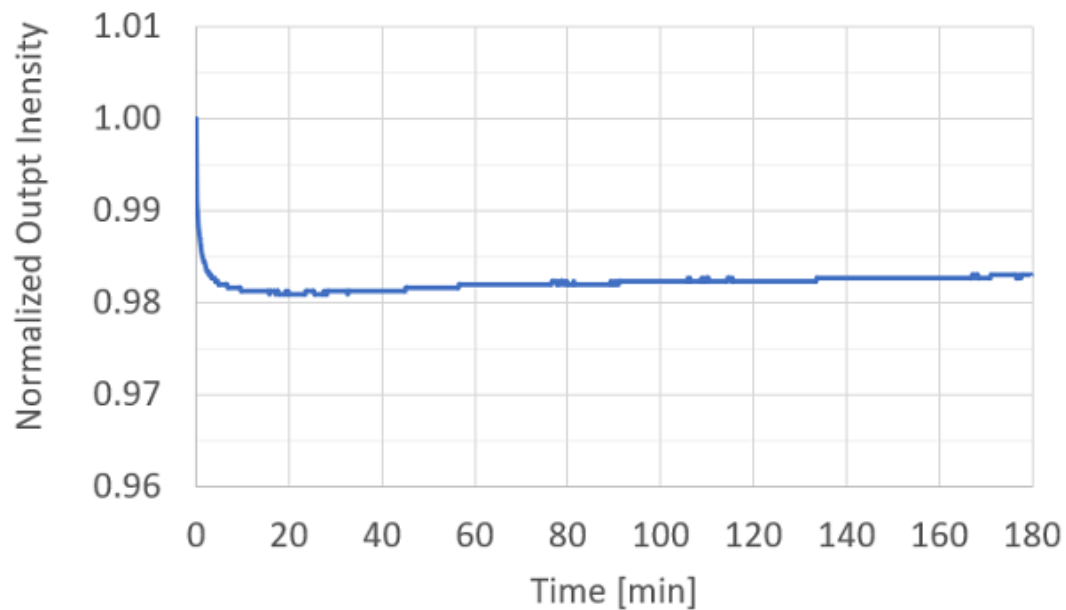
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Fiber Type	Fiber Core	Fiber NA	Output Power for FC-LED-BBW27	Output Power for FC-LED-BBW27
Silica	400µm	0.39	4.0 mW	3.9mW
Glass	550µm	0.22	8.2 mW	7.7mW
Glass	600µm	0.39	9.0 mW	8.2mW
Glass	1000µm	0.39	24 mW	23.5mW
Glass	1000µm	0.5	33 mW	32mW
Polymer	1000µm	0.5	24.5 W	25mW
Polymer	1500µm	0.5	53 mW	50mW



General Specifications

Output optical connector		SMA 905
Power adaptor input		100-240 VAC, 50/60Hz, 0.7A
Power adaptor certifications		
Light source input voltage	V	12
Operation temperature range	°C	10 - 35
Storage temperature range	°C	-10 - 55
Operating relative humidity (non-condensing)	%	<90
Head weight	g	660

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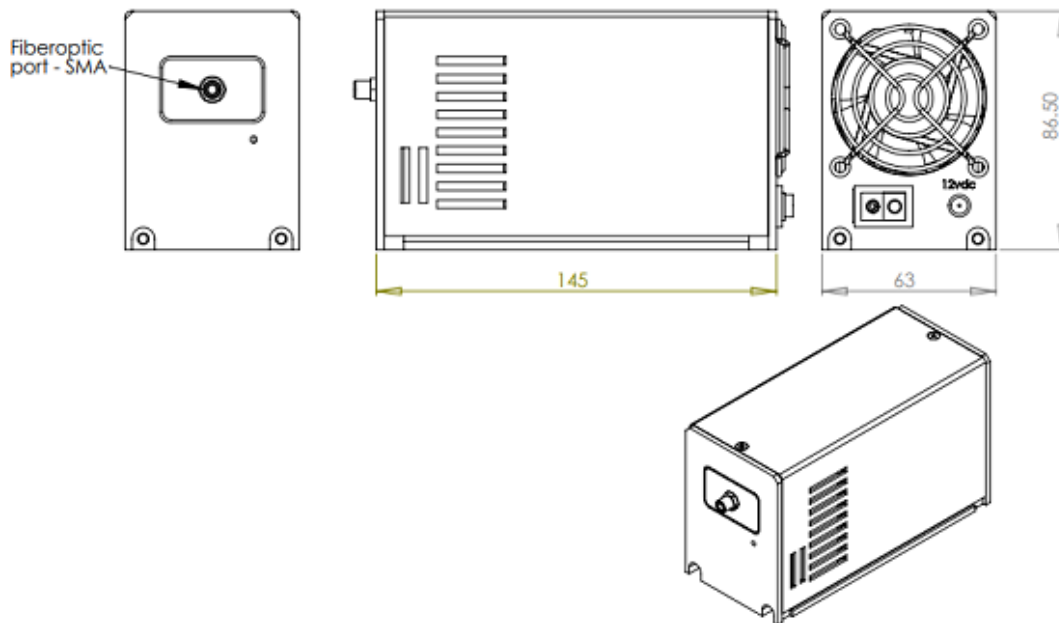
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Mechanical Drawings



Ordering Information

Item Description	P/N
Fiber-Coupled Broadband light source for spectroscopy. FC-LED-BBW27 – color temp 2700K FC-LED-BBW50 – color temp – 5000K Power adaptor is included. Optical Fiber not included - see below	FC-LED-BBW27 or FC-LED-BBW50
High NA Optical Fibers: <ul style="list-style-type: none"> Core: 100um / 200um / 250um / 500um / 1000um NA: 0.5 or NA: 0.63. Length: 0.2m - 2m Connectors: SMA or FC 	Please specify requirement
Ø1 inch Fiber collimator for High NA fibers up to NA=0.53	FCM1-0.5
Ø0.5 inch Fiber collimator for High NA fibers up to NA=0.53	FCM05-0.5
Ø1 inch Fiber collimator for High NA fibers up to NA=0.63	FCM1-0.6
Ø1 inch Focuser to be used with FCM1-0.X fiber collimator. Please specify requirement	FOC1

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