

LiFi Transmitter

General Description

The LiFi Transmitter is a custom-design front-end for visible light communications (VLC). It has a wide bandwidth (20 MHz) to support even the most demanding video streaming applications. The transmitter has a powerful 5000K 186 lumen LED with an interchangeable lens mechanism.

Features

- Plug-and-play solution for VLC R&D
- Compatible with NI platforms USRP and PXI
- 25 MHz bandwidth
- Interchangeable lens mechanism
- 186 Lumen power LED
- 50 Ohm I/O impedance



Transmitter Module

Specifications

DC Input Voltage (Max)	5 V
AC Input Voltage (Max)	200m Vpp
Input Impedance	50 Ohms
3dB Bandwidth	100kHz to 25 MHz
Optical Output (Max)	186 Lumen - 5000K
Operating Temperature	5° to 35° C
Storage Temperature	0° to 50° C
Package	LiFi Transmitter 1" Lens Holder 5V Power Supply
Part Number	LIFITXFE

Optical Specifications

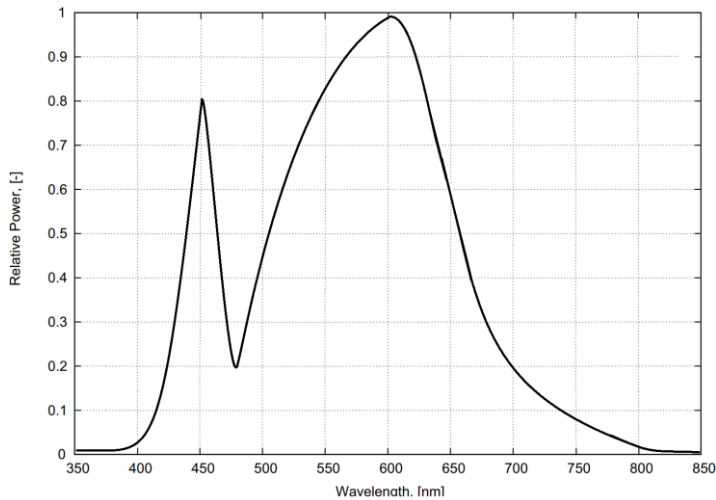


Fig. 1 - Optical Output Spectrum

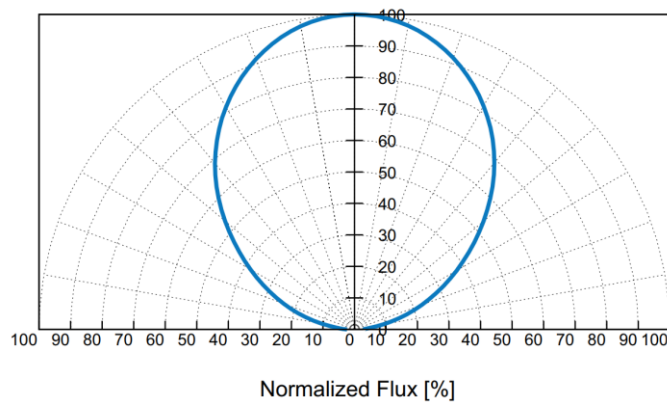
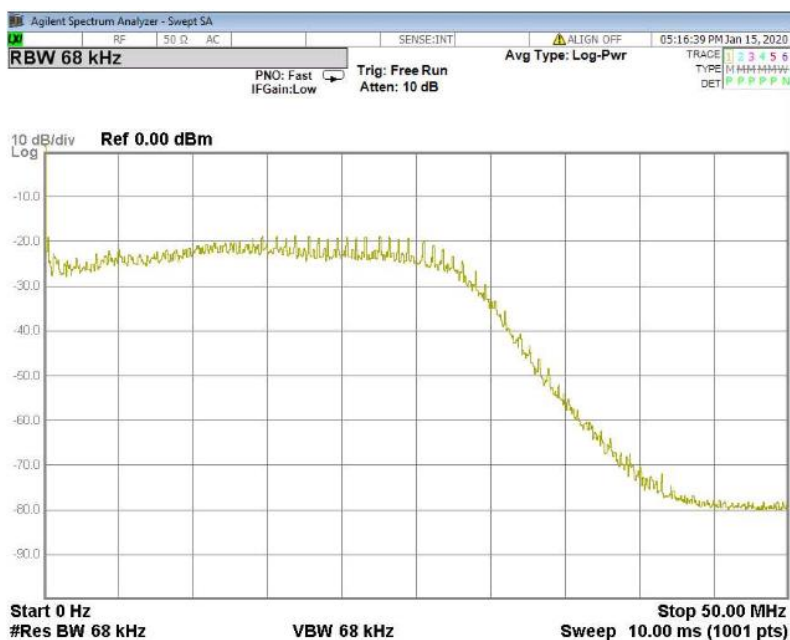


Fig. 2 - Typical Polar Radiation Pattern

Electrical Specifications



**Fig. 3 – Frequency Response to Swept Signal
(Measured with Hyperion Technologies LiFi Receiver)**

Mechanical Specifications

