

Multispectral Lighting System with Sun-IR option MLS_SUNIR_001



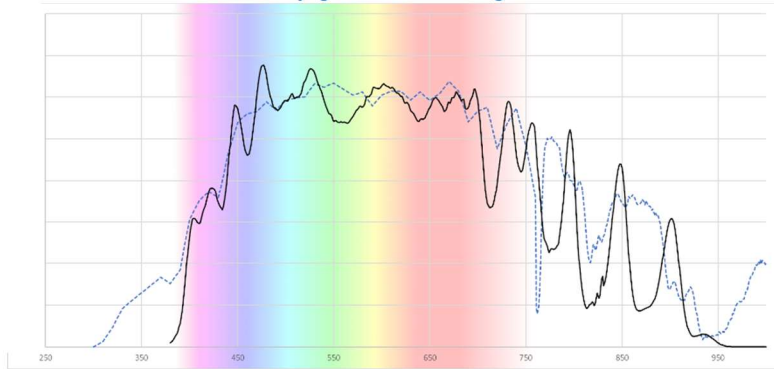
General Specifications

DXOMARK Image Labs Reference	MLS_SUNIR_001
Dimensions	795 x 203 x 1590 mm
Material	Aluminum
Color	Black
Weight	35 Kg
HS Code	9405.91.60
Country of origin	FRANCE

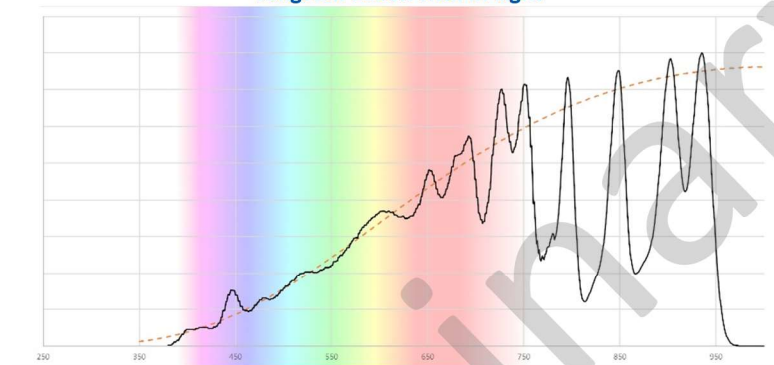
Description

The Multispectral Lighting System is a lighting device allowing to control the intensity and spectrum of light. It has been designed to simulate common illumination like daylight, tungsten, and indoor LED lights, with a very accurate spectrum and intensity. The light generated includes NIR and cover the wavelength range [380 1000] nm. The light is constant, with no flickering thanks to a constant current drive. But user can also activate a flickering mode to generate light with frequency from 50Hz to 1000 Hz.

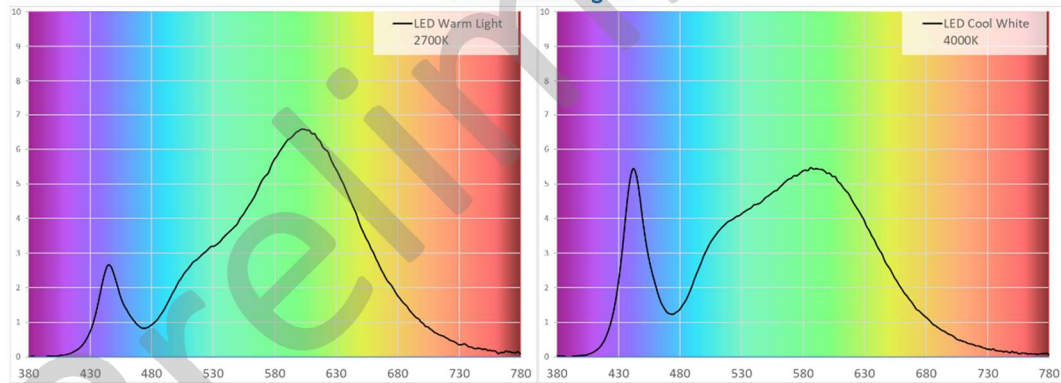
Daylight D50 with IR Light



Tungsten 2856K with IR Light



LED standard lights

**Electrical Specifications (for each fixture)**

Input (Mains)	230 V AC 50/60 Hz
Rated Power	TBD
Standard	EN standard 60598-2-17 - TBC
Control	Ethernet

Illumination Specifications (two fixtures at 1.5 meters from the chart)	
Illuminance range	Daylight: 1 to 10 000 lux LED Cool White: 1 to 500 Lux LED Warm White: 0.1 to 500 Lux A (tungsten lamp): TBD
Lighting uniformity in a chart 120x80cm	0.1 to 1000 lux: better than 90% Daylight 10 000 lux: better than 80% TBC
Color Rendering Index	0.1 – 1000 lux: CRI >95 for all illuminant 1000 - 10 000 lux: CRI >90

Temporal Specifications	
Rise time (time to reach 90% of required light)	< 20ms
Fall time (time to reach 10% of initial light)	< 20ms
Light intensity stability (intensity variation during 1 hour)	> 95% (TBC)

Led control	
LED channels	32
LED control electronics	Constant current driven
LED control precision	12 bits

Close-loop control	
Close-loop with lux-meter	32
LED control electronics	Constant current driven
LED control precision	12 bits

Flickering	
LED dimming for all LED channel	Constant current control
One LED channel offers flickering option :	Warm white (LED at 2700K)
Flickering range	0 to 1000 Hz
Duty cycle	50%