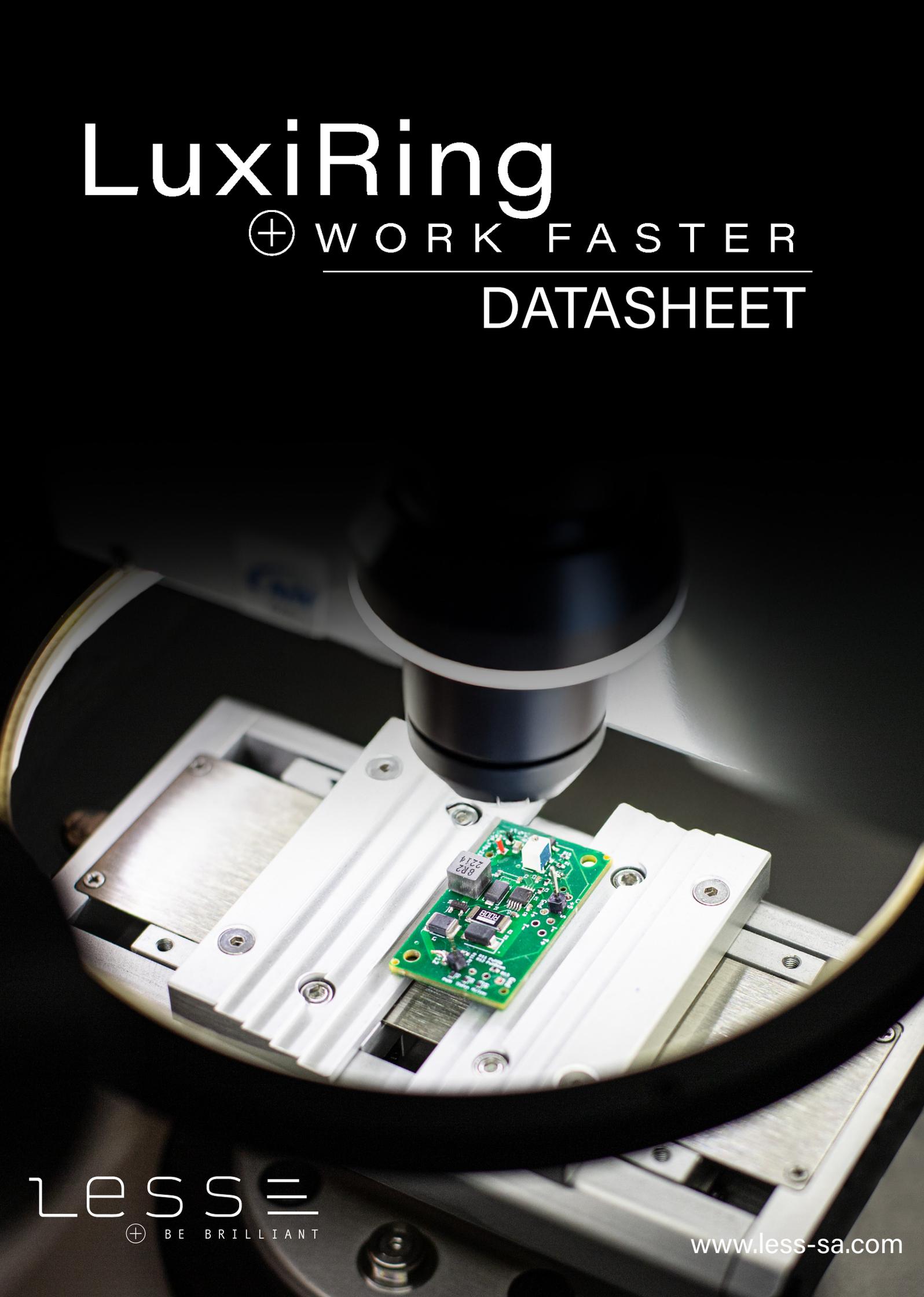


# LuxiRing

⊕ WORK FASTER

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DATASHEET



## TABLE OF CONTENTS

Introduction.....	3
General Specifications.....	4
Ordering Information.....	4
Mechanical Interfaces.....	5-6
Electrical Interfaces.....	7
Cabling.....	7
Operating Modes.....	8

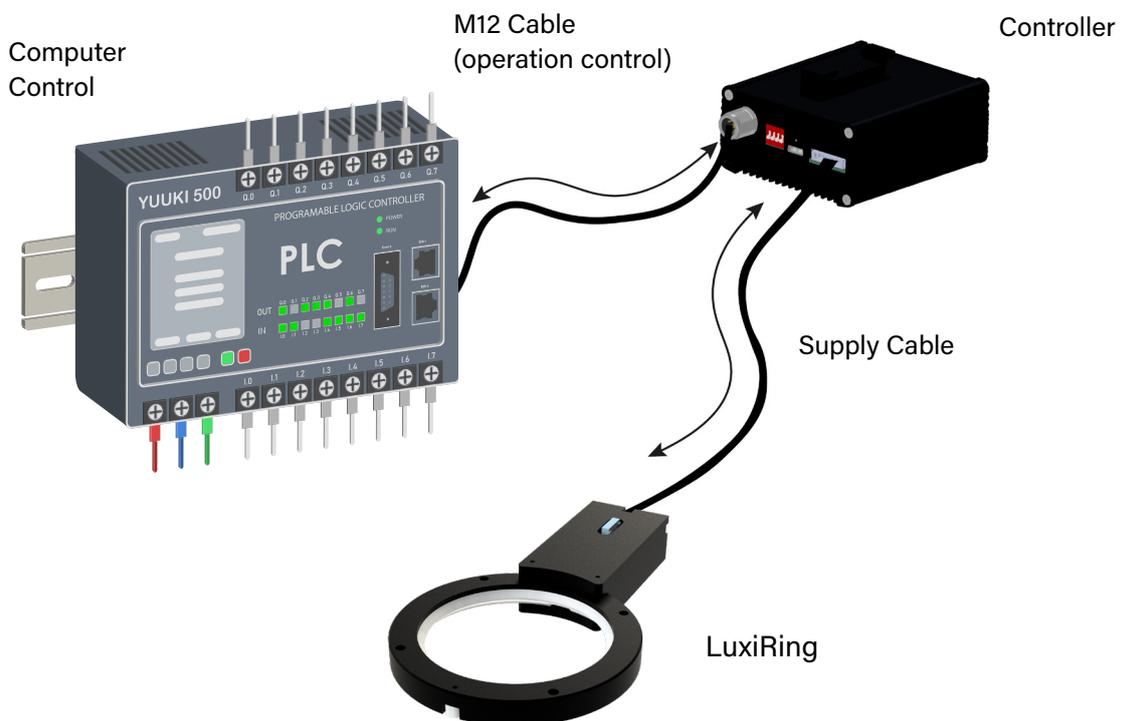
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# INTRODUCTION

## LuxiRing WHITE 5400°K



Enhance your machine vision process with **LuxiRing**, designed for optimal performance across industries such as semiconductor, electronics, and more. Its high directionality and uniform illumination ensure accurate defect detection, enabling fast and efficient visualization. Unlike traditional LED rings & diffusers, **LuxiRing** is exceptionally compact featuring our **LuxiBright® technology** that maintains high brightness, uniform light & delivers sharp contrast transitions. This is particularly efficient when inspecting polished & complex components.



# GENERAL SPECIFICATIONS



## LuxiRing WHITE 5400°K

Components	LuxiRing			
Diameter	⌀ 76mm		⌀ 160mm	
References	LRLA-76-WH	LRHA-76-WH	LRLA-160-WH	LRHA-160-WH
Illuminance at optimal working distance*	>50'000 lx @15mm	>50'000 lx @30mm	>10'000 lx @35mm	>10'000 lx @60mm
Color	White			
Color temperature	5400°K ±250°K			
Diameter and fixing holes	76mm		160mm	
Overdrive	x2.5			
Strobe reactivity	<10µs			
Illumination Modes	Continuous / Trigger / Strobe			
Mechanical Interface	DIN Rail Adaptor			
Max. Power Consumption	19W (Overdrive), 12W (Nominal)			
Electrical Interface	24 VDC / GND / Trig In			
Frame Material	Aluminum			
Mounting Holes	M4			
Working Temperature	0-40°C			
IP Rating	IP30			
Weight	LRXX-76-WH < 120g, LRXX-160-WH < 150g			
Lighting Technology	LuxiBright®			

\*Measurements at specified vertical distance from the center of the rings.

## ORDERING INFORMATION

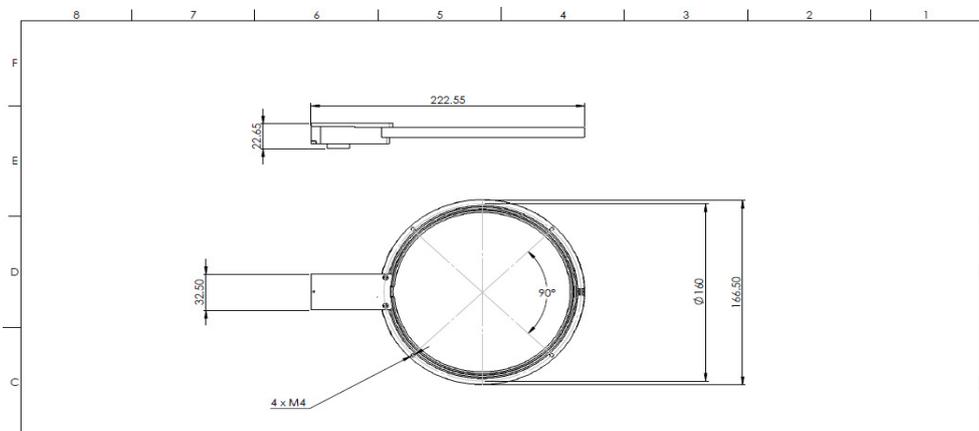
LuxiRing	Angle	Diameter	M12 Cable	Supply Cable	Controller
LR	Low Angle High Angle	76 ⌀ 160 ⌀	AC-M12-1.5	AC-CBL-1M AC-CBL-2M	CTRL-LRO

# MECHANICAL INTERFACES (Dimensions in mm)

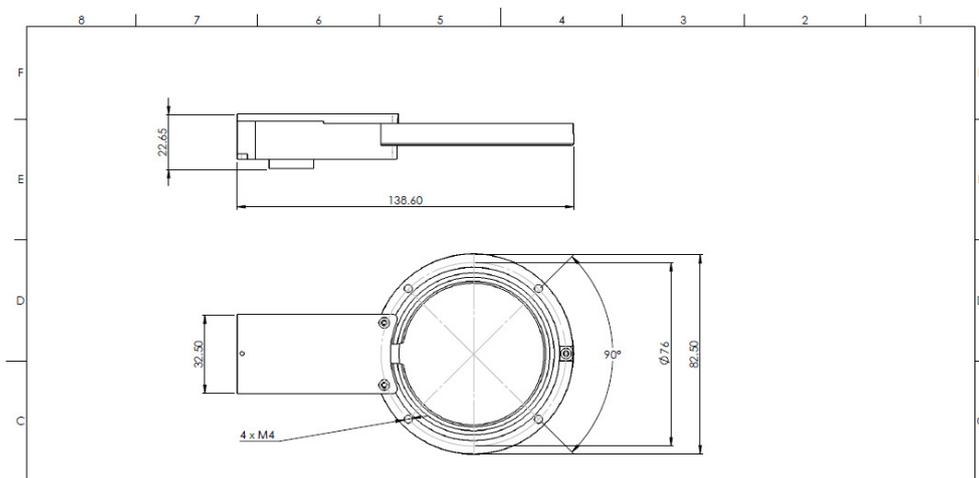


## LuxiRing WHITE 5400°K

### 160mm



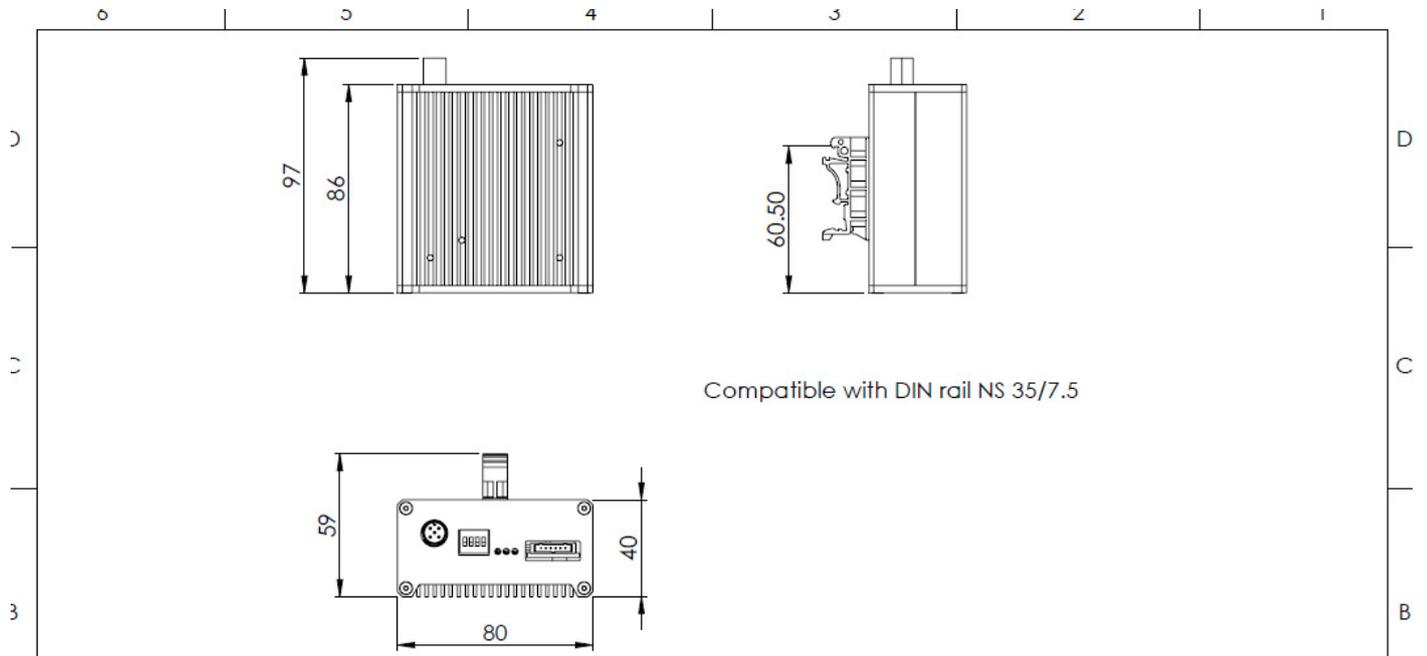
### 76mm



# MECHANICAL INTERFACES (Dimensions in mm)



## CONTROLLER



# ELECTRICAL INTERFACE

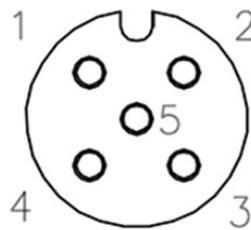


## CONTROLLER

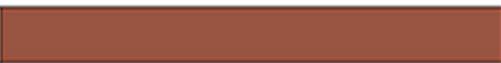
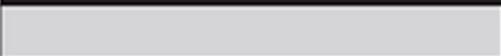
Components	Controller
<b>ELECTRICAL</b>	
Input Voltage	24VDC
Output Power	30W max
Maximum Current	1.5A
<b>ENVIRONMENTAL</b>	
Operating Temperature	0 to 40°C
Cooling Method	Passive cooling
<b>CONNECTORS</b>	
Controller's Input	3 wires terminal - to M12 5-pin - Power supply and External Trigger
Light source connector	I/O Connector: TE Connectivity / ERNI iBridge Ultra
<b>CONTROL</b>	
Run modes	Continuous or PNP Triggered
Control Method	Dip Switch Commutator, Manual Switch
Trigger input	12-26 VDC, PNP

## CABLING

Controller's input: 5 wires terminal-to M12 5-pin-power supply and external trigger



Ref : AC-M12-1.5

1	BN		24 VDC
2	WH		n.u.
3	BU		GND
4	BK		Trigger in 12-26 VDC
5	GY		n.u.

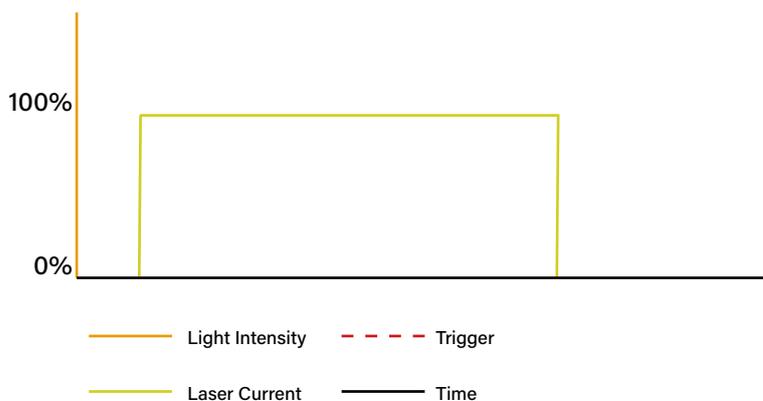
Light source connector: I/O connector:  
TE Connectivity / ERNI iBridge Ultra.

# OPERATING MODES

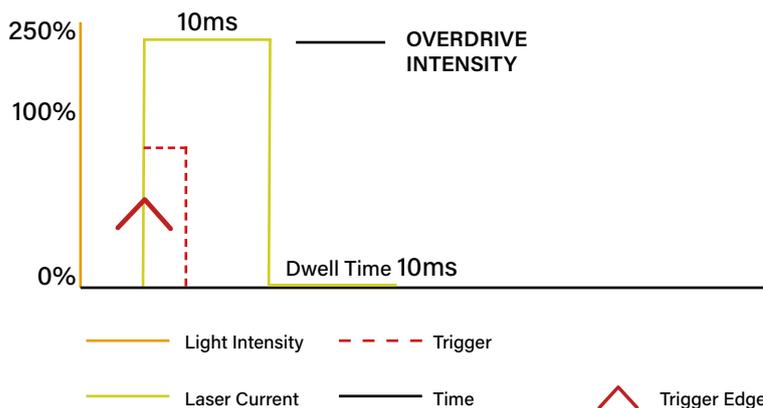


## LuxiRing WHITE 5400°K

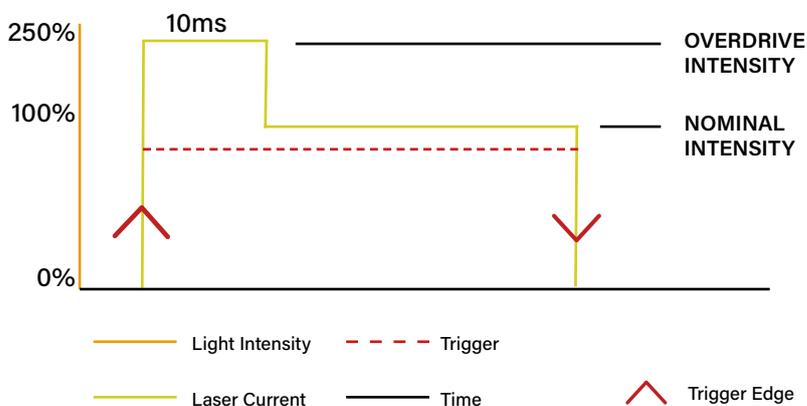
### 1. Continuous at nominal current



### 2. Rising edge + Overdrive



### 3. Following pulse + Overdrive \*



\* The operating cycle can impact the temperature of the lighting system. A built-in temperature control continuously monitors the system, and if the predefined temperature limit is exceeded, the lighting operation will automatically shut down to prevent overheating.

# LESSÉ

⊕ BE BRILLIANT

Contact us via  
our website  
to find out more.

[www.less-sa.com](http://www.less-sa.com)



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