CLS JADE B COLOUR FLOW - TUNABLE WHITE

Manual   V1.2 - November 2023

INDEX

SAFETY INFORMATION

Do not stare into the LED

Ambiance Max. 40°

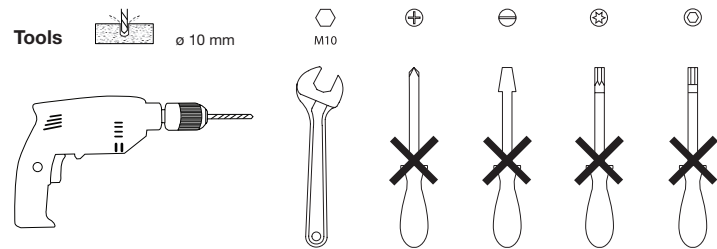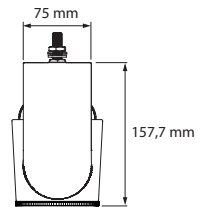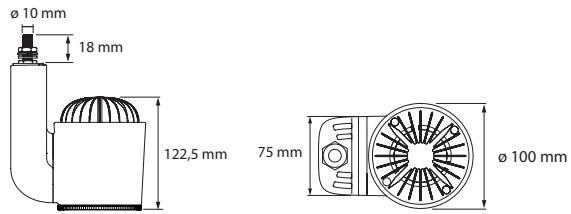Qualified technician

Disconnect the power supply before installing or maintaining

Make sure all connectors are connected properly

Use a source of AC power that complies to local electrical codes

Block access below the work area when maintaining the unit

Don't modify or install genuine parts on this product

Don't install in a flammable or explosive area

Warning! Some surfaces can be hot

CONTENT

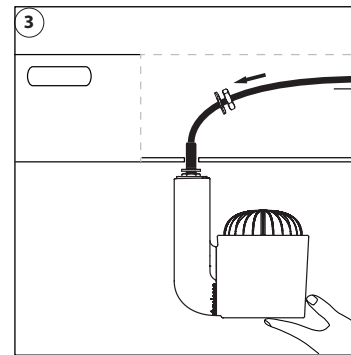Ceiling   360°   350°   10 mm   200 cm   DRIVER INCLUDED   DRIVER INTERNAL   780 gram   50.000 h   23°   45°   69°   IP20   RGB-W W: 3000K   RGB-W W:4000K

1800K-4000K   2700K-6500K   100 - 240 VAC   30 Watt Max.   DMX 512   DMX   CASAMBI   5 YEARS WARRANTY   CE   A+   CLS DYNAMIC COLOUR COB

ø 10 mm

18 mm

122,5 mm

75 mm

ø 100 mm

75 mm

157,7 mm

Tools

ø 10 mm

M10
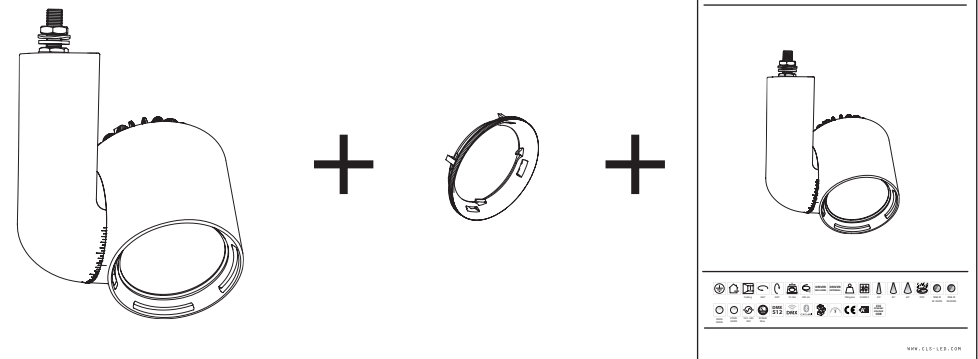
SPECIFICATIONS

LED:	CLS Dynamic Colour CoB
Colour changing:	RGB-W
Tunable White:	1800K-4000K & 2700K-6500K
Beam angle:	23°, 45° or 69°
Power supply:	100 ~ 240 VAC
Power consumption:	Max. 30 Watt (1450 lumen)
Housing:	Black, grey or white PC (PC-ABS V0)
	Heatsink black or white coated aluminium
Weight:	780 gram
IP value:	IP20
Cable length:	200 centimeters
Measurements:	175,7 x 100 x 100 mm (hxwxd)
Ambient temperature:	–10° C till +40° C

1 *Install example aluminium cable tray*

ø 10 mm

2

3

4

M10

5

360°

350°

Position indicator

6 *5 core combi cable connection scheme*

- Combi cable = 5 x 0,5 mm^2
- Max. 20 Jade B Colour Flow - Tunable White in 1 power line

yellow/green

Brown — **L**

Blue — **N**

Red — **DMX +**

White — **DMX −**

3

4
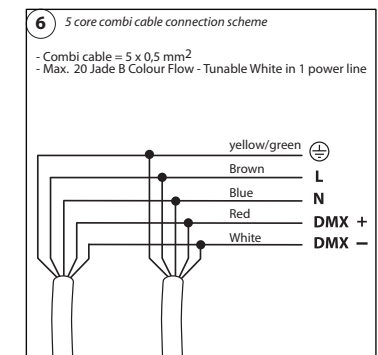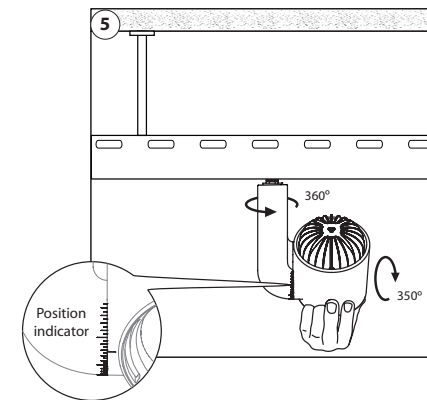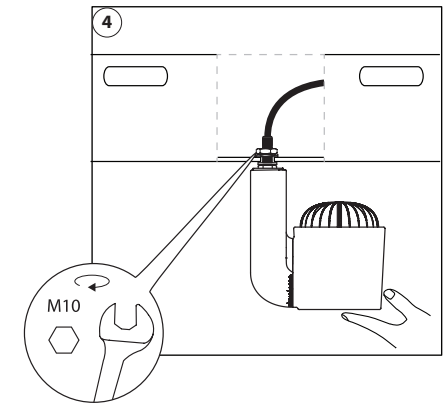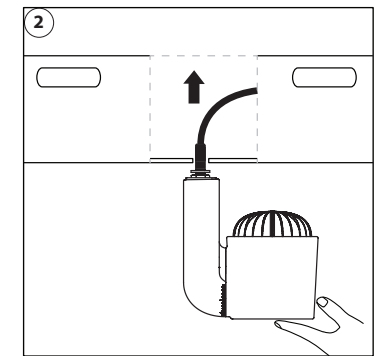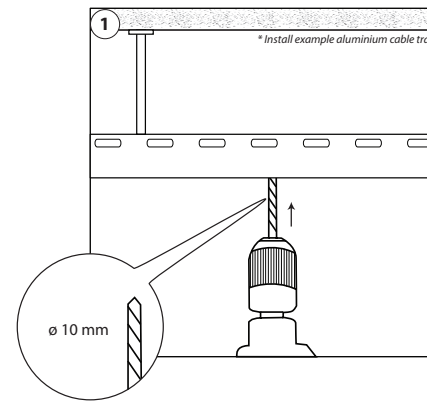
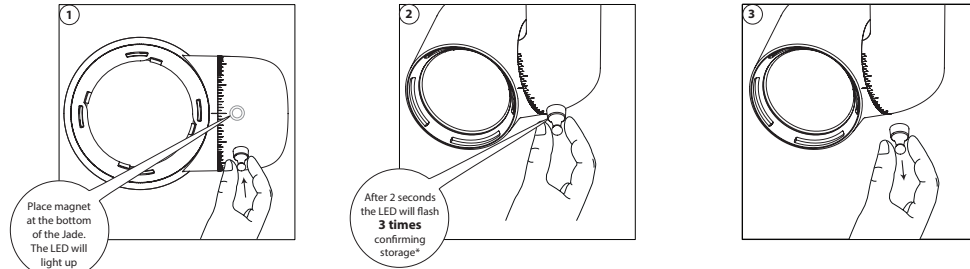All settings can be configured via DMX. Settings can be configured at once or separately. When one or a couple settings needs to be changed just leave all other setting values zero. This keeps those settings unchanged. Please check the table for more information.

Always use a DMX controller with digital interface. If not available, you can purchase the CLS D-ta DMX addresser unit (*#122200*).

First make sure to set the DATA on the DMX controller. To program the setting into the LED fixture follow the next steps.

Place magnet at the bottom of the Jade. The LED will light up

After 2 seconds the LED will flash **3 times** confirming storage*

* If the LEDs flashes **10 times,** something went wrong. Please try again. If the problem continues to occur, please contact your local sales distributor.

WIRELESS DMX

See the Manual of WIreless Solutions. The Manual can be found on our CLS website, in the Downloads section. Or use the link below
https://www.cls-led.com/wp-content/uploads/cls-files/W-DMX-manual.pdf

Unlink procedure
When the fixture does not receive a DMX signal (DMX controller off), place the magnet on the bottom of the fixture for 5 seconds. Slow flash indicates that the fixture is unlinked.

BLUETOOTH BY CASAMBI

For Casambi controlled fixtures, see the manual of Casambi. The Manual can be found on our CLS website, in the Downloads section. Or use the link below:
https://www.cls-led.com/wp-content/uploads/cls-products/CLS_CASAMBI/MANUAL/Manual_Casambi_controlsystem_EN.pdf

! **Max. 20 pieces of Jade can be connected in a group.   Max. 20 pieces of Jade per DMX line on a rail.**

PROGRAMMING TABLE

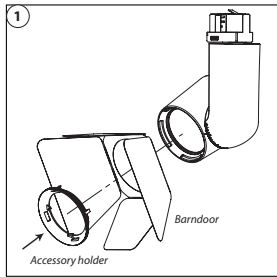| DMX	Function	Data	Parameters	Description
CH1	Set address 001 to 255	0	0 = no change	Use this DMX channel to set address from 1 to 255. (DMX address is called "n")
		1...255	DMX address = 1...255	
CH2	Set address 256 to 508	0	no change	Use this DMX channel to set address from 256 to 508. (DMX address is called "n")
		1...255	DMX address = 256...508	
CH3	Static behavior	0	no change	If no DMX is present the fixture will respond like set in this function.
		1	last DMX value	
		2	output off	
		3	load static values	
CH4	Soft dim	0	no change	When dynamic softdim is activated an extra DMX channel behind the colours and/or master controls the soft dim reaction. If fixed no extra DMX channel is used.
		1	off	
		2	Dynamic	
		3-250	Fixed interpolation delay	
CH5	Master control	0	no change	If master is first channel is selected the channel will be DMX channel "n". If master is last channel is selected the channel will be "n+x" ("x" is calculated in the output patch).
		1	no master used	
		2	master is first channel	
		3	master is last channel	
CH6	Output 1 patch	0	no change	Each output channel can be patched to respond to the desired DMX channel. This enables the user to mix up the colours according to the controller that is used.
		1	DMX channel n	
		2	DMX channel n+1	
		3	DMX channel n+2	
		4	DMX channel n+3	
CH7	Output 2 patch	0	no change	**Example: all outputs are patched as 1** All outputs will be controlled by DMX channel "n". If master is used total DMX channels will be 2 otherwise it uses 1 channel ("x" = 1).
		1	DMX channel n	
		2	DMX channel n+1	
		3	DMX channel n+2	
		4	DMX channel n+3	
CH8	Output 3 patch	0	no change	**Example: output 1&2 are patched as 1 and 3&4 are patched as 2** Output 1 & 2 will be controlled by DMX channel "n". Output 3 & 4 will be controlled by DMX channel "n+1". If master is used total DMX channels will be 3 otherwise it uses 2 channels ("x" = 2).
		1	DMX channel n	
		2	DMX channel n+1	
		3	DMX channel n+2	
		4	DMX channel n+3	
CH9	Output 4 patch	0	no change	
		1	DMX channel n	
		2	DMX channel n+1	
		3	DMX channel n+2	
		4	DMX channel n+3	
CH10	Static output 1	0	no change	Each output channel can be set to a static intensity.
		1	output off	
		2...255	intensity 2...255	
CH11	Static output 2	0	no change	If no DMX is present and Static behavior is set to "load static values". The outputs will be set to the configured intensity values.
		1	output off	
		2...255	intensity 2...255	
CH12	Static output 3	0	no change	
		1	output off	
		2...255	intensity 2...255	
CH13	Static output 4	0	no change	
		1	output off	
		2...255	intensity 2...255	
CH14	Load default settings	0	no change	This function resets all settings to the Factory setting.
		1	Load Factory settings.	

	Number of DMX channels needed			
LED colour	1	2	3	4
Single colour	✖			
Tunable White		✓		
ColourFlow				✓

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BARNDOOR ASSEMBLY

1
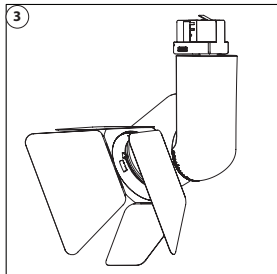
Barndoor

Accessory holder

NL Plaats de accessoire houder met de 4 klikvingers in het midden van de montage gleuf op de Jade.

UK Place the accessory holder with the 4 click fingers in the middle of the mounting slot on the Jade.

2

3

2

1

4 x
Click!
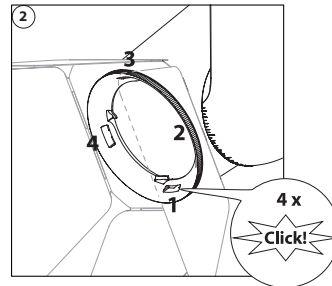
Druk krachtig aan, u dient een duidelijke 'klik' te horen.

Push firmly until you hear a clear 'Click' sound.

3

Als u de barndoor wilt roteren voor een juiste positie, dient u dit met 1 hand te doen en met de andere hand de accessoire houder op zijn plaats te houden.
**Doet u dit niet, dan kunt u de accessoire houder losklikken!**

If you want to rotate the barndoor to find the desired position, you need to keep the accessory holder with one hand on its place.
If you don't do this you might release the accessory holder!

4 *disassembly*
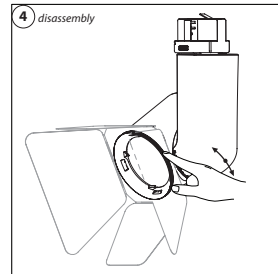
Verwijderen van de barndoor: draai de accessoire houder geheel naar links of naar rechts tot deze niet meer verder kan.

Removing the barndoor: rotate the accessory holder fully to the right or left, until you are not able to rotate it any further.

5 X ✓
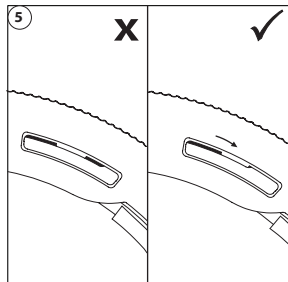
U voelt een weerstand en kunt nu de accessoire houder naar voren halen.

When you feel the resistance, pull the accessory holder out of the mountingslot.

6

1

Snoot

Accessory holder

2

3

4

2

1

4 x
Click!

3

4 *disassembly*
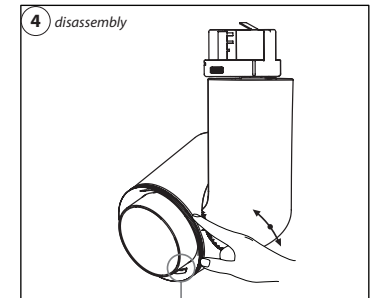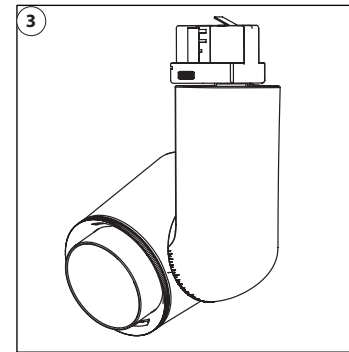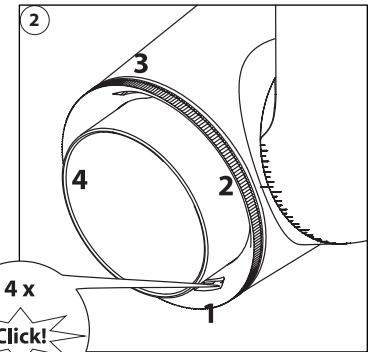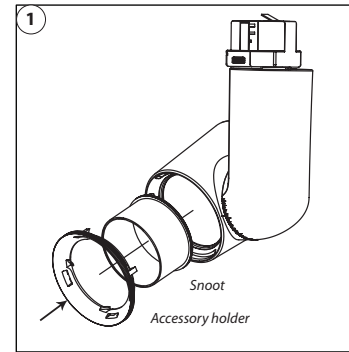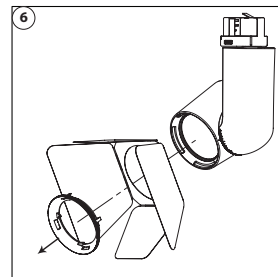
Removing the snoot: rotate the accessory holder fully to the right or left, until you are not able to rotate it any further. (See step 5)
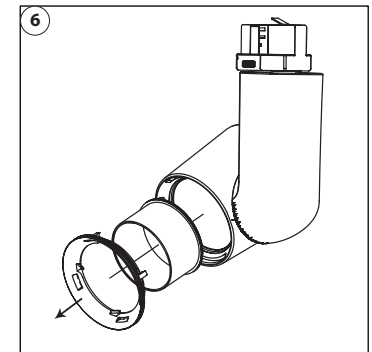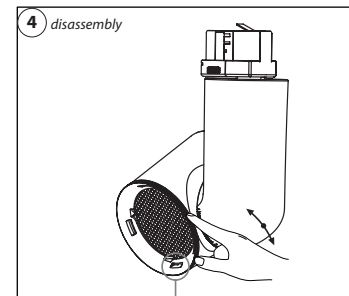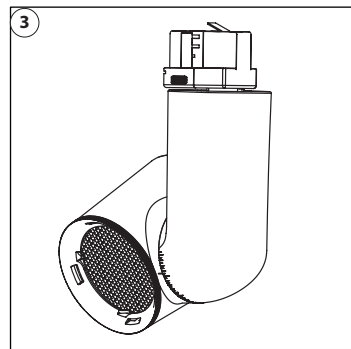
5 X ✓

When you feel the resistance, pull the accessory holder out of the mountingslot.

6

1

Honey Comb Louvre

Accessory holder

Facing towards
the Jade

2

3

4

1

4 x

Click!

3

4 *disassembly*
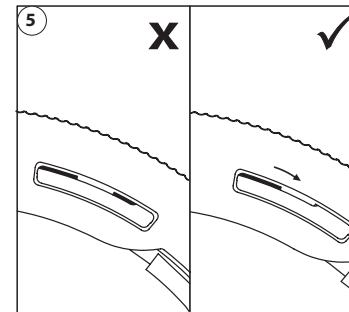
Removing the honey comb: rotate the accessory holder
fully to the right or left, until you are not able to rotate
it any further. (See step 5)

5

X ✓

When you feel the resistance, pull the
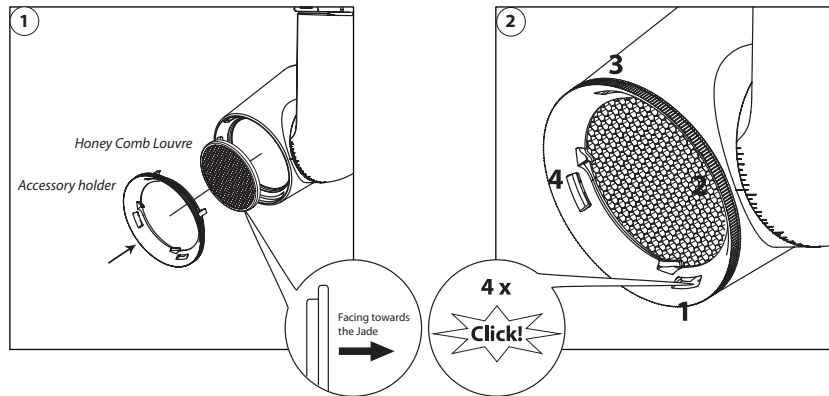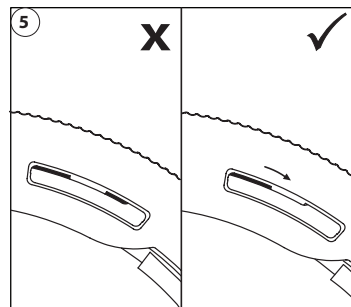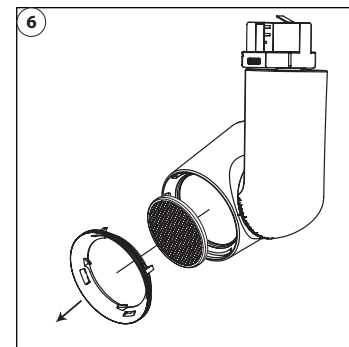accessory holder out of the mountingslot.

6

ACCESSORIES

122200	CLS D-Ta DMX tester/addresser unit
Y106017	CLS Magnet pin (5 pcs)
Y106200-B	CLS Jade Expo Snoot, black
Y106200-W	CLS Jade Expo Snoot, white (black inside)
Y106201-B	CLS Jade Expo Half Snoot, black
Y106201-W	CLS Jade Expo Half Snoot, white (black inside)
Y106202-B	CLS Jade Expo Barndoor, black
Y106202-W	CLS Jade Expo Barndoor, white (black inside)
Y106215	CLS Jade Expo Honey Comb louvre

Accessory Combinations
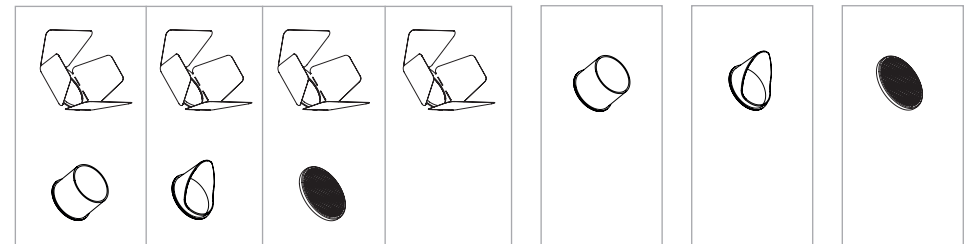
LIST OF SYMBOLS

Protection class
One, two or three

Application area
Indoor or outdoor

Application area
Floor, wall or ceiling

Swivel
Fixture is horizontally rotatable,
indicated in degrees

Swivel
Fixture is vertically rotatable,
indicated in degrees

Multiple connection
Daisychain connectivity

Installation depth
In centimeters

Installation size
In centimeters

Cable length
Maximum cable attached
to the fixture in centimeters

Driver
Inclusive or exclusive
Internal or external

Weight
In grams/kilograms

Pressure
Maximum pressure on the
fixture in kg/cm²

Lifespan
Of the light source in hours

Lenses
Availble lenses,
indicated in degrees

Performance Zoom
Adjustable beam angle

LEDs
Kind of LED used in the
fixture

Plug & play
Easy connection using the
SmartConnect system

IP value
Ingress Protection classifies the
degrees of protection provided against
the intrusion of the product

Colour changing
RGB, RGB-W, RGB-A,
AWB or Tunable White

Retail & Food LED modules
Clothing, furniture, kitchens, jewellery,
shoes, bread, meat, fish and
vegetables & fruit.

Colour
Available colours;
Amber, blue, red or green

White colour temperature
In different Kelvin values;
Cold white, neutral white, warm
white or extra warm white

Curve
Minimal bending curve
in centimeters

Cutting length
Indicated by the cutting
marks

LED pitch
Pitch between the LEDs
in millimeters

Power supply
In VDC, VAC or milliAmpere

Power consumption
In VA or Watt

Dimmable
1-10 Volt, Phase, individual,
DMX dimmable or DALI

PWM dimming
Traditional PWM dimming, DMX analog
or DMX Hybrid dim

Bluetooth controlled
By Casambi

Magno dimming
Accurate dimming from
100 - 1% by using a magnet

Dynamic Control
Dynamic Power Control or
Dynamic Temperature Control

DMX input
Fixture works on DMX512
protocol or Wireless DMX

Combined product
Compose your own fixture

Warranty
3 or 5 years warranty on
the product

Conformité Européenne
CE marking for free marketability
of industrial goods within the EU

Energy label

Lightsource
Equipped with a CLS, Bridgelux or a
Xicato LED module

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