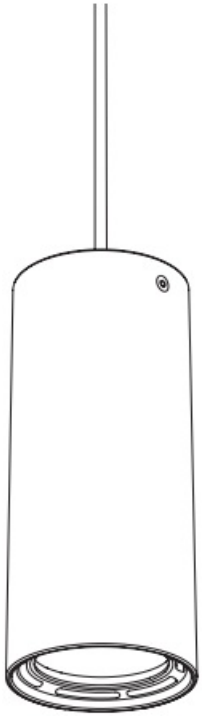
CLS DMX Ruby Compact Pendant Installation Guide

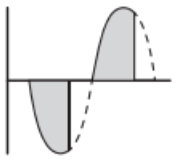
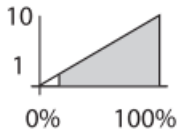
Contents

CLS RUBY COMPACT PENDANT SERIES

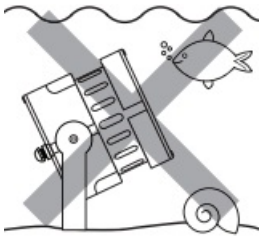
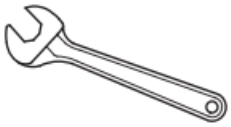
Manual V1.4 – December 2024



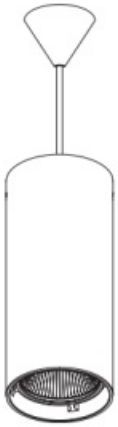
		Ceiling	200 cm	400 cm
600 cm	800 cm	DRIVER INCLUDED	DRIVER INTERNAL	1300 gr
50.000 h	19º	37º	63º	High Power LED
IP20	2500K CRI>80	2700K CRI>80	2700K CRI>92	3000K CRI>92

3500K CRI>92	4000K CRI>92	RGBW W: (3000K)	RGBW W: (4000K)	RGBA
				
1800-400K	2700-6500K	1800-3000K	200 ~ 240 VAC	Max. 30 Watt
		DMX 512		
Mains dimmable	1-10V dimmable			
PWM DIM	DMX ANALOG DIM	DMX HYBRID DIM		
CLS DYNAMIC COLOUR COB	bridgelux	CE	A+	A++

SAFETY INFORMATION

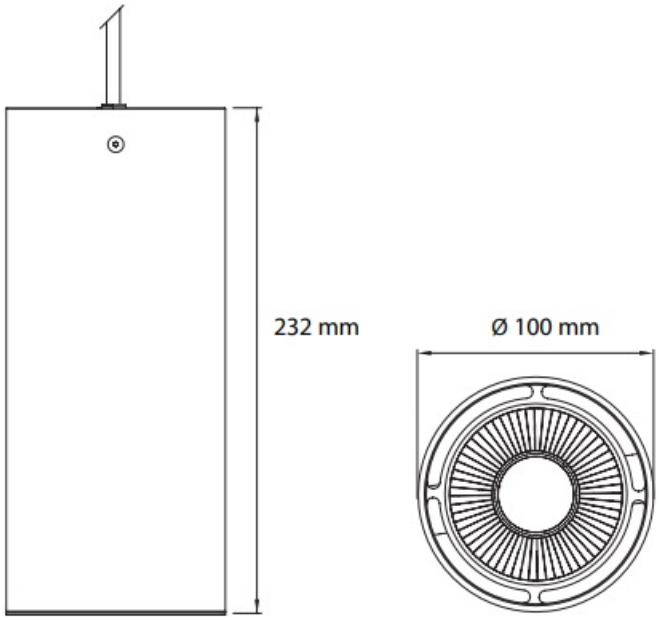
		 Do not stare into the LED
 Ambiance Max. 40º	Qualified technician 	Disconnect the power supply before i nstalling or maintaining
Make sure all connectors are c onnected properly	Use a source of AC power that complie s to local electrical codes	Block access below the work area w hen maintaining the unit
Don’t modify or install genuine parts on this product	Don’t install in a flammable or explosiv e area	Warning! Some surfaces can be hot

CONTENT

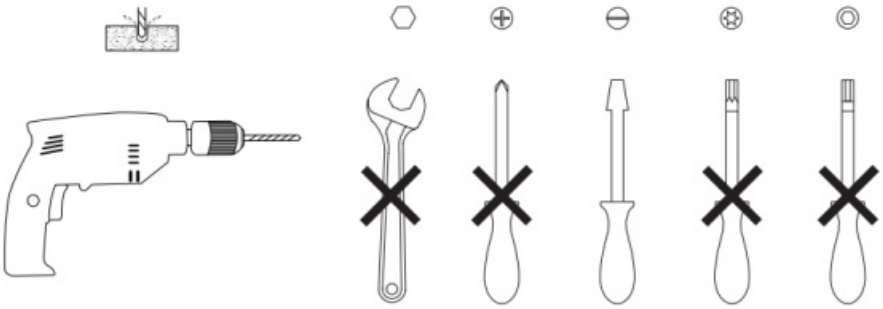


+

TECHNICAL



Tools



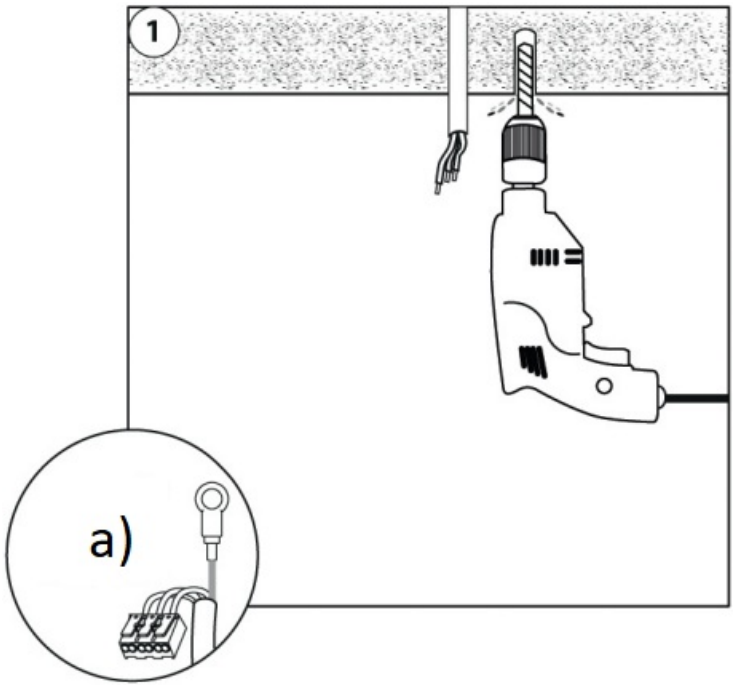
SPECIFICATIONS

LED:	High Power LED
Available colours:	CRI>80: 2500K & 2700K CRI>92: 2700K, 3000K, 3500K or 4000K
Colour Changing:	RGBA, RGBW (W: 3000K) or RGBW (W: 4000K)
Tunable White:	1800K-4000K or 2700K-6500K
Dim To Warm:	1800K-3000K
Lenses:	19º, 37º or 63º
Power supply:	200 ~ 240 VAC
Power consumption:	6 serie: Max. 30 Watt
Housing:	Anodised aluminium black or white coated
Weight:	1300 gr
IP value:	IP20
Cable length:	200, 400, 600 or 800 centimeters
Measurements:	232 x 100 mm (hxø)
Ambient temperature:	-10º C till +40º C

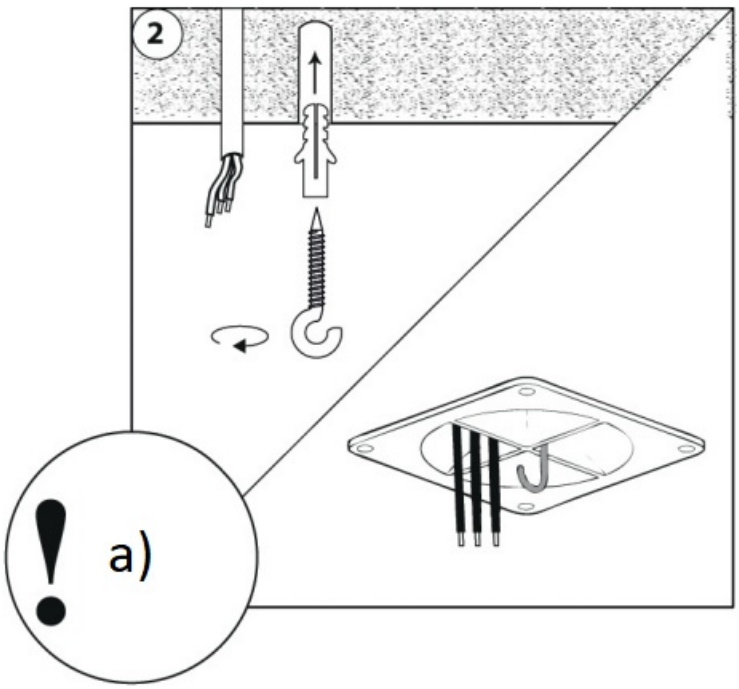
ACCESSORIES

Y106017	CLS Magnet for programming, 5 pcs
122200	CLS D-ta DMX addresser

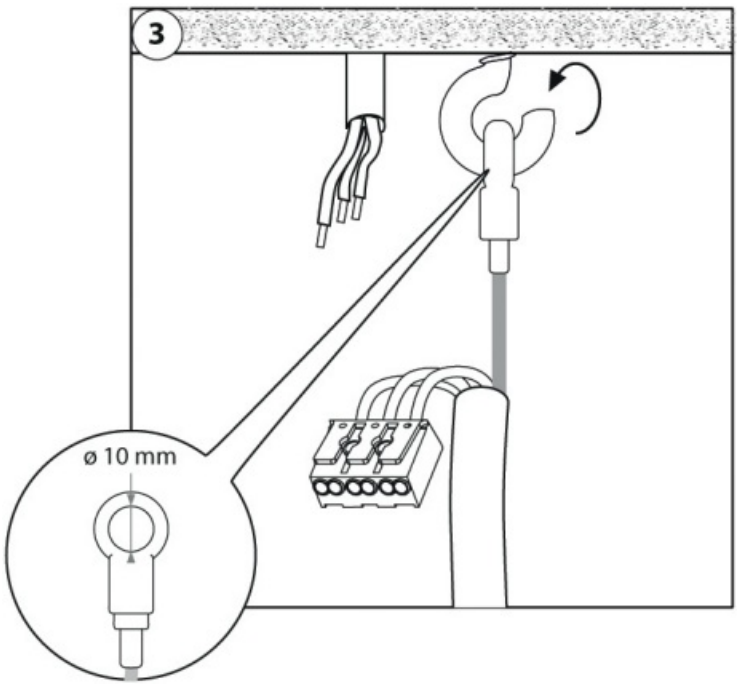
INSTALLATION

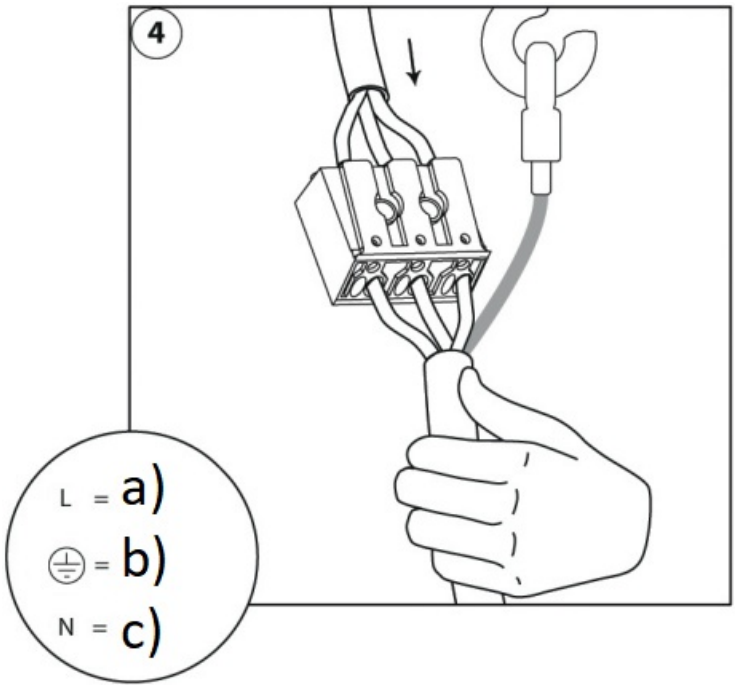


a) Power cable fitted with integrated safety cable

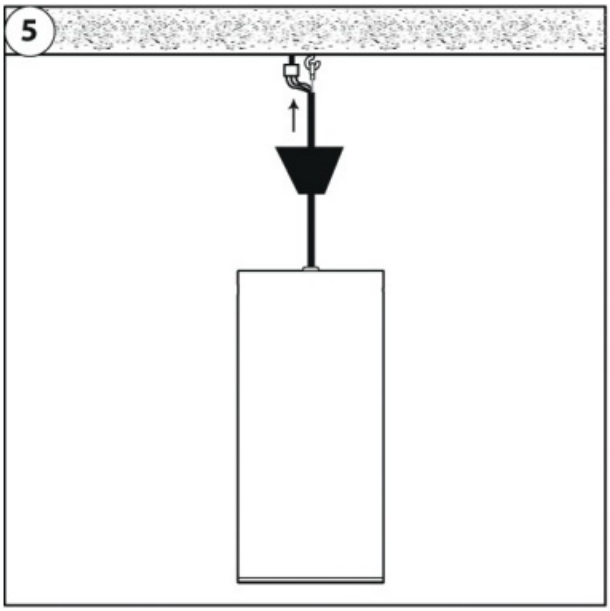


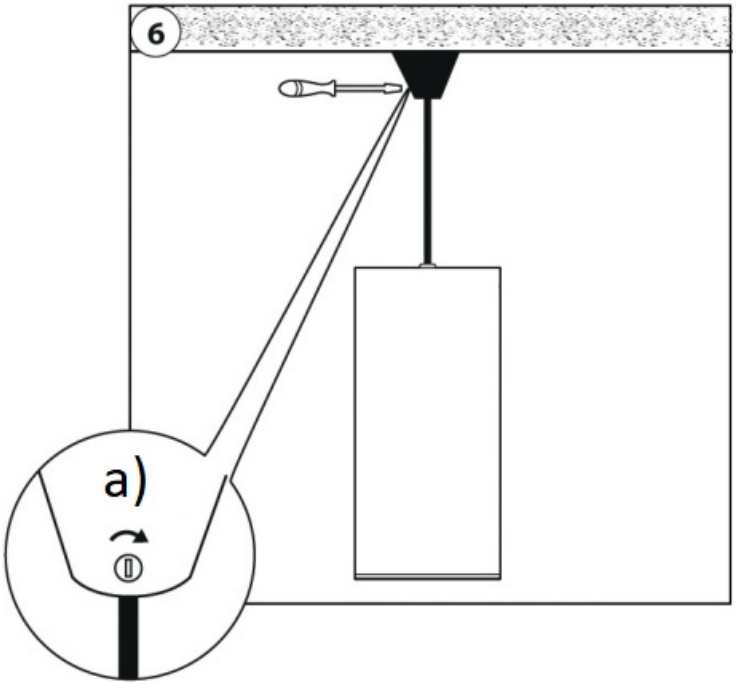
a) Make sure that the safety hook can carry the weight of the Ruby





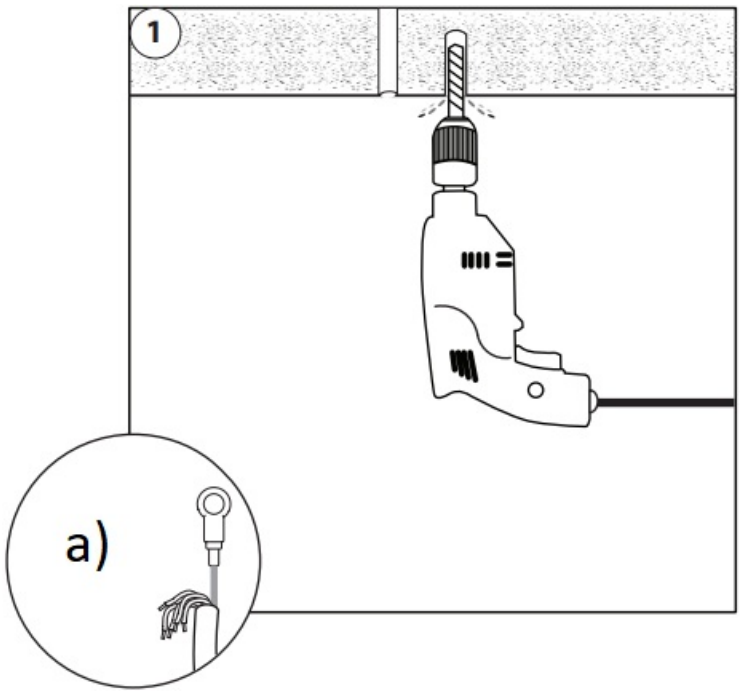
a) Brown cable
b) Yellow/green
c) Blue cable



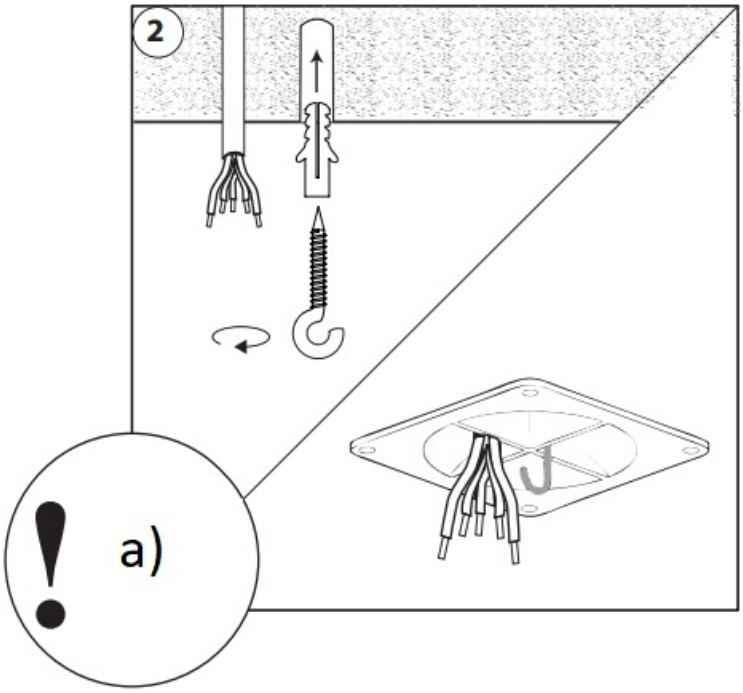


a) Tighten

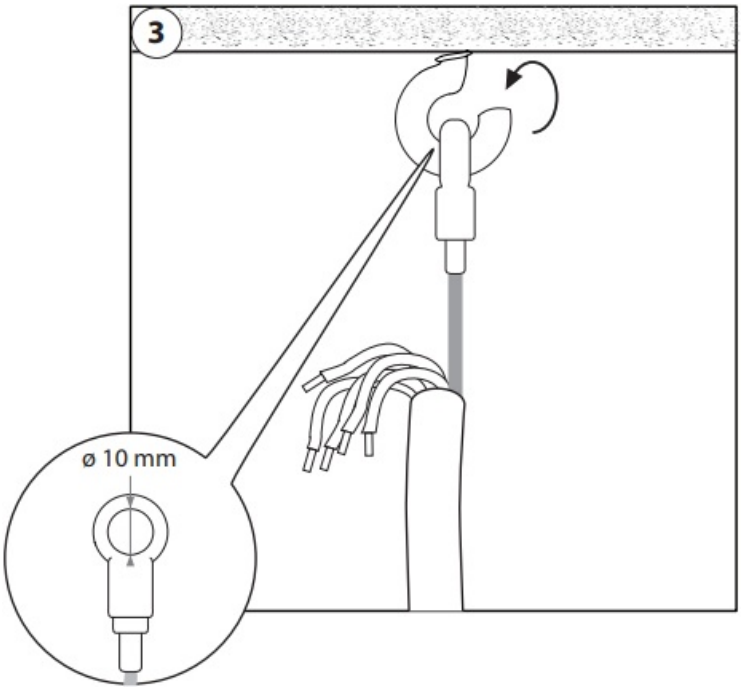
INSTALLATION DMX VERSION



a) 5 core combi cable fitted with intergrated safety cable



a) Make sure that the safety hook can carry the weight of the Ruby



L = Brown cable

⏚ = Yellow/green

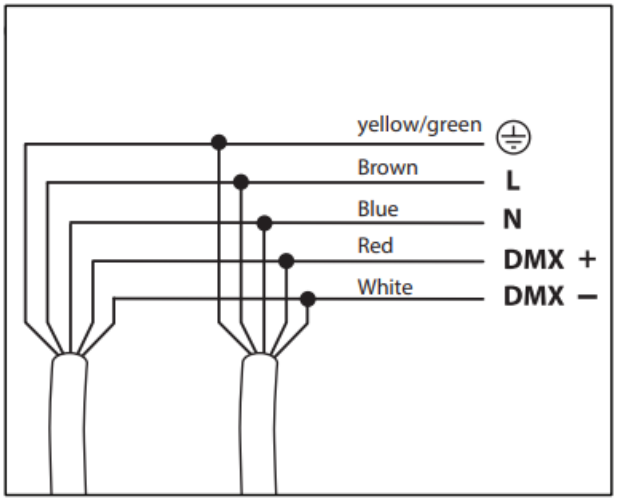
N = Blue cable

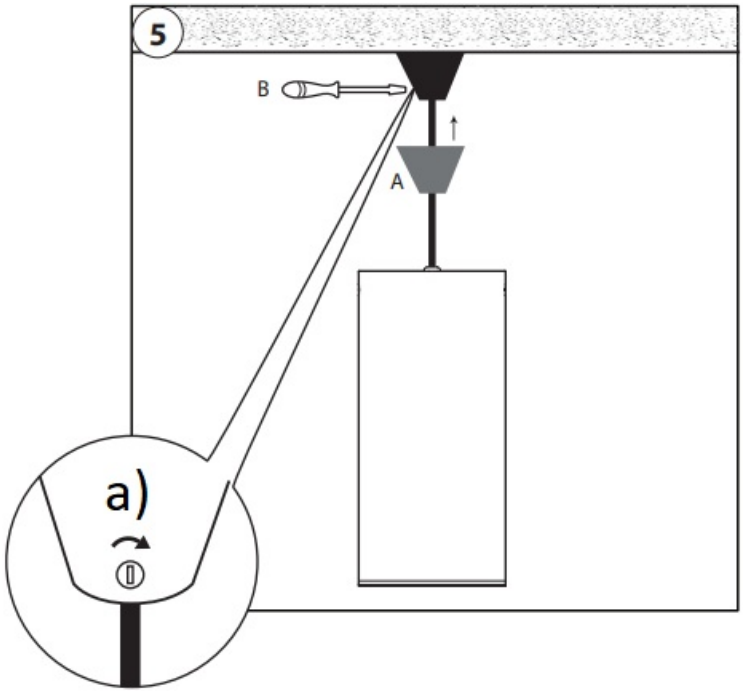
DMX + = Red cable

DMX – = White cable

(4) 5 core combi cable connection scheme

See step 6 for the ammount of Ruby’s per switch-on

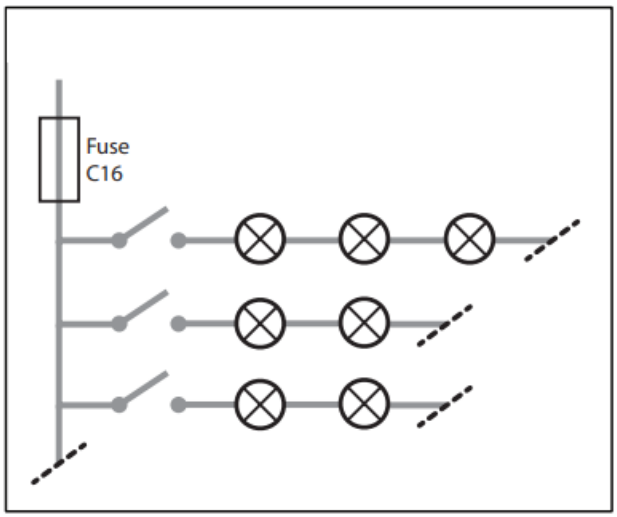




a) Tighten

(6) Maximum amount of Ruby's per switch-on *

5 serie – 22 Watt: 25 pieces
6 serie – 30 Watt: 25 pieces
7 serie – 45 Watt: 5 pieces
8 serie – 60 Watt: 5 pieces
9 serie – 110 Watt: 5 pieces



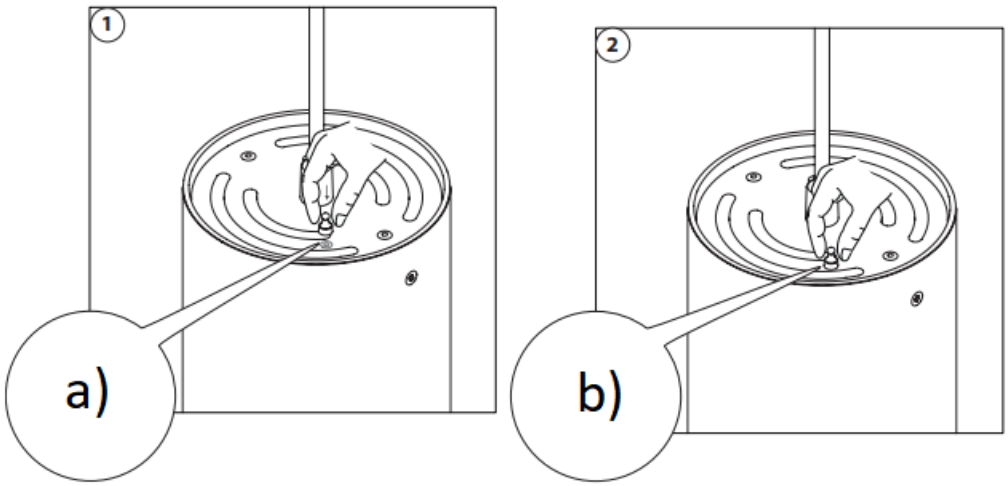
* Due the switch-on peak

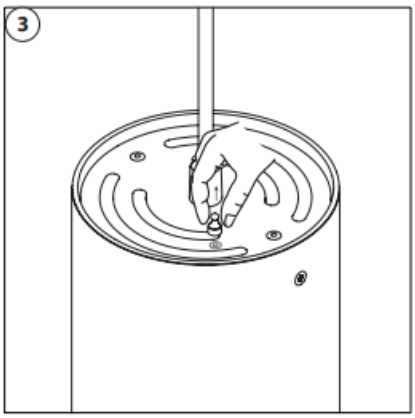
PROGRAMMING DMX

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.





a) Place magnet on the indication mark. The LEDs will light up
b) After 2 seconds
The LED's will flash **3 times** confirming storage*

* If all LEDs flash **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

PROGRAMMING TABLE

PROGRAMMING TABLE				
DMX	**Function**	**Data**	**Parameters**	**Description**
CH 1	Set address 001 to 255	0	0 = no change *	Use this DMX channel to set address from 001 to 255. The configured 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. The configured 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	
		1	DMX channel n	
		2	DMX channel n+1	
		3	DMX channel n+2	

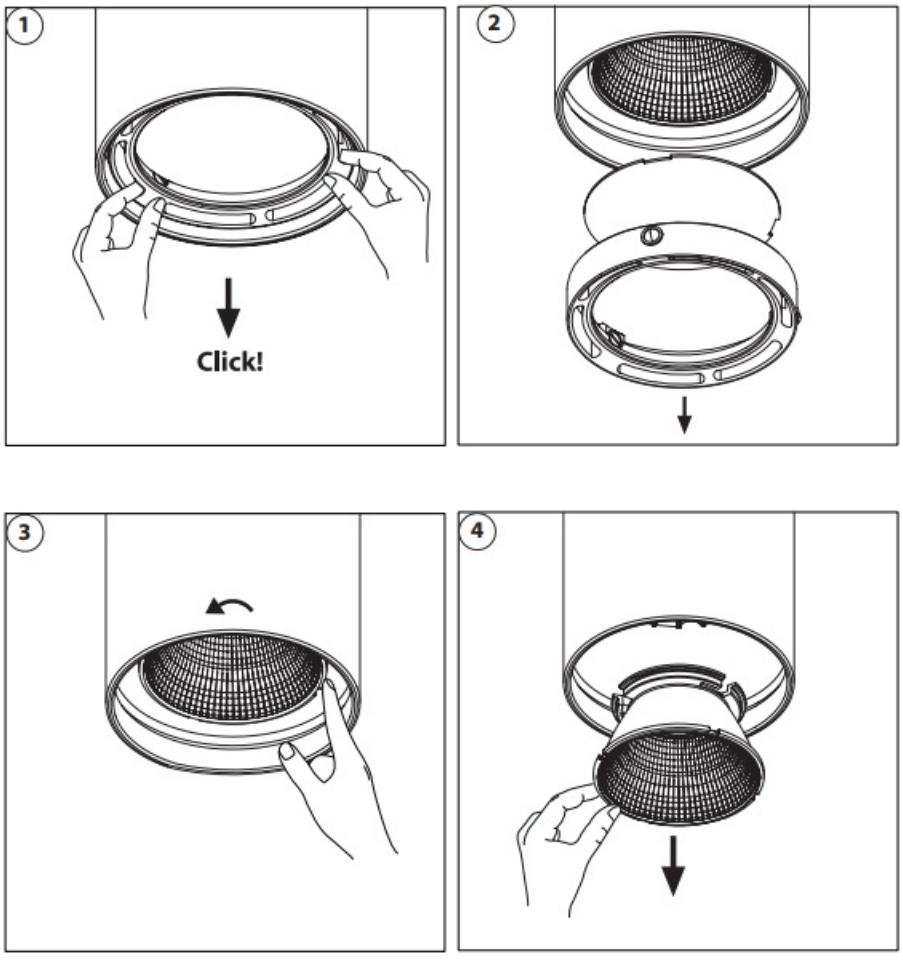
		4	DMX channel n+3	
CH7*	Output 2 patch	0	no change	Each output channel can be patched to respond to the desired DMX channel. This enables the user to mix up the colours according to the controller that is used.**Example: all outputs are patched as 1** All outputs will be controlled by DMX channel “n”. If master is used total DMX channels will be 2 otherwise it uses 1 channel (“x” = 1).**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	
CH8*	Output 3 patch	0	no change	
		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	

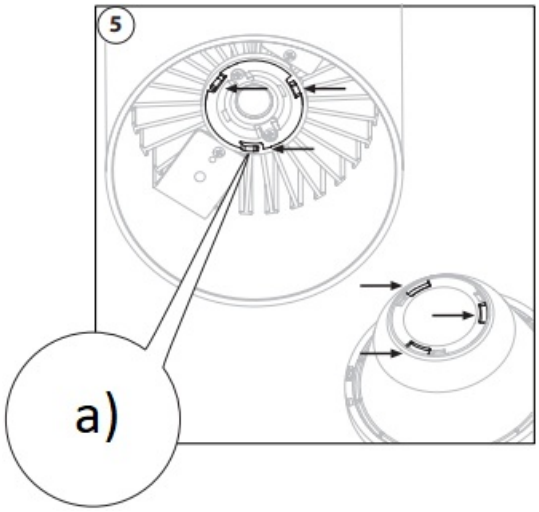
CH10	Static output 1	0	no change	Each output channel can be set to a static intensity. If no DMX is present and Static behavior is set to “load static values”. The outputs will be set to the configured intensity values.
		1	output off	
		2…255	intensity 2…255 *(255)	
CH11*	Static output 2	0	no change	
		1	output off	
		2…255	intensity 2…255 *(255)	
CH12*	Static output 3	0	no change	
		1	output off	
		2…255	intensity 2…255 *(255)	
CH13*	Static output 4	0	no change	
		1	output off	
		2…255	intensity 2…255 *(255)	
CH14*	Load default settings	0	no change	This function resets all settings to the Factory setting.
		1	load Factory settings	
CH15	Input Resolution setting	0	no change	In 16 bit mode 2 channels are used per colour. First channel is rough channel, second channel fine. 16 bit mode is only available in DRIVE mode 2.
		1	8 bit *	
		2	16 bit	

CH16	Drive mode setting	0	no change	You can set the frequency of the PWM for best compatibility with Camera Systems. However, the highest resolution of the dimming curve will be at the lowest frequency. Option 1 can be used to be compatible with older installation and new fixtures.
		1	compatible with version < 2020	
		2	PWM frequency 0.7kHz *	
		3	PWM frequency 1.4kHz	
		4	PWM frequency 2.8kHz	
		5	PWM frequency 5.6kHz	

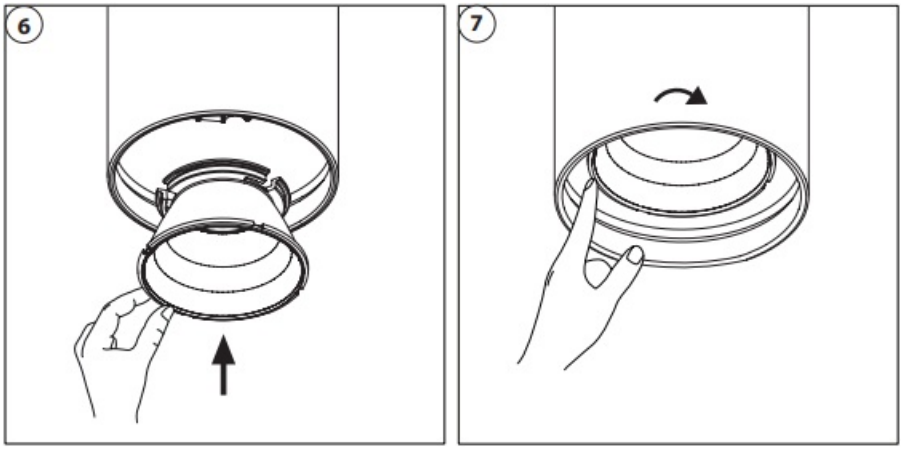
*** Default setting** CHXX* Not applicable on the Ruby DMX single colour

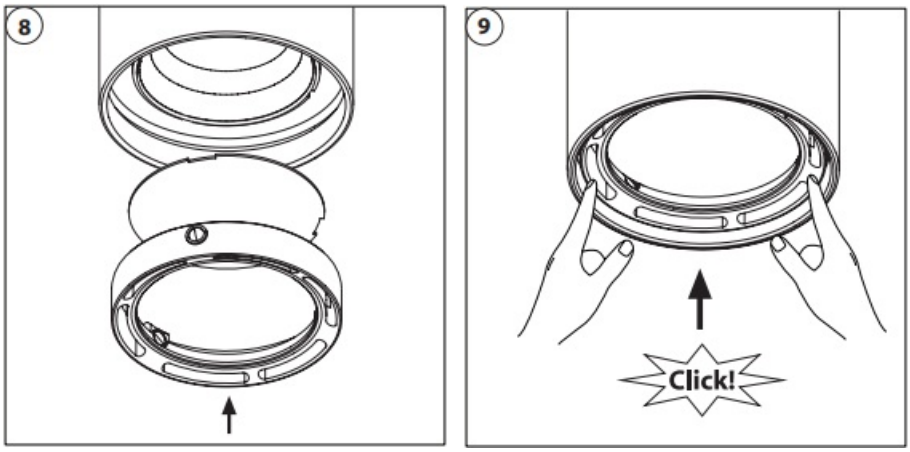
REFLECTOR REPLACEMENT



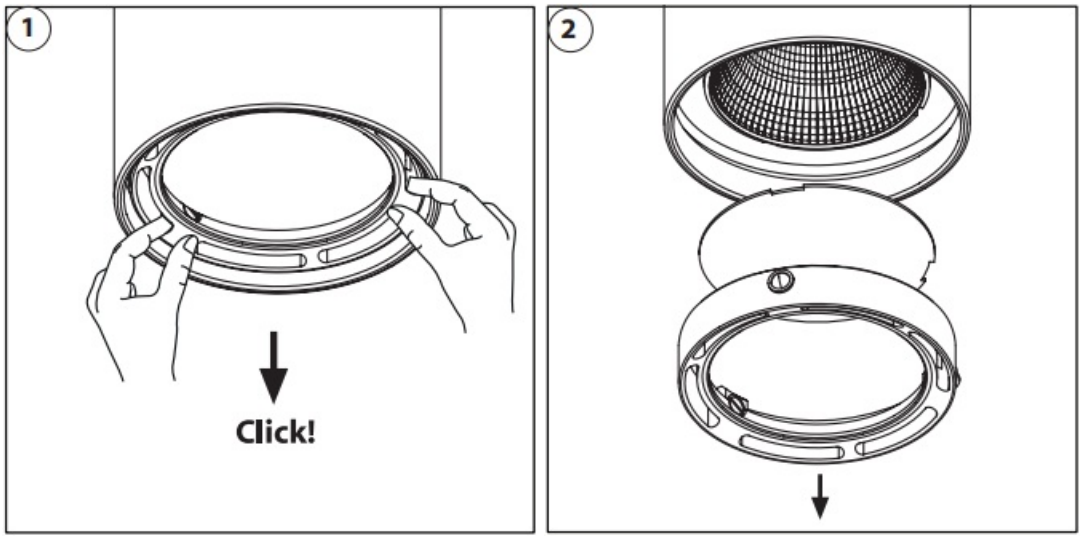


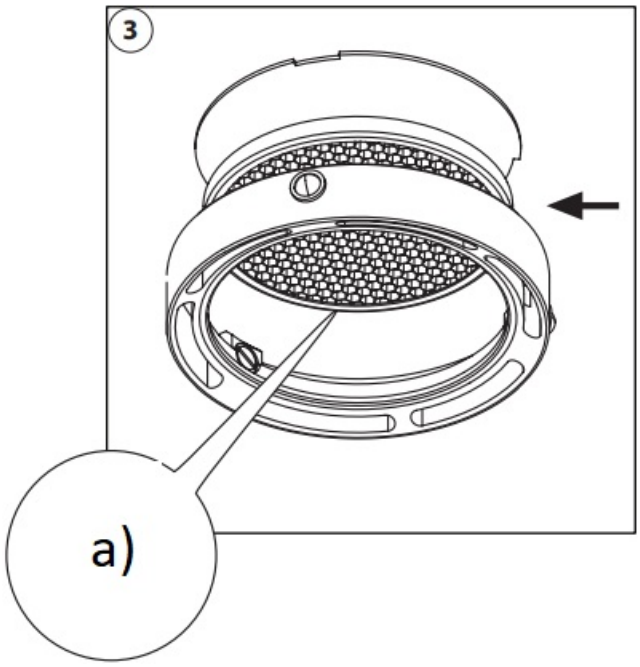
a) Make sure the indicated holes falls over the clips



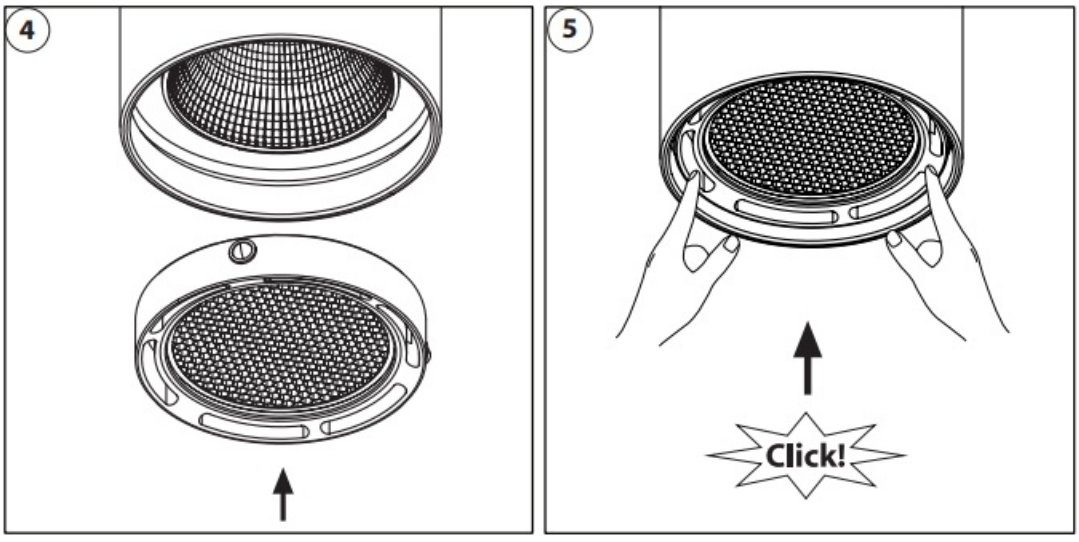


HONEYCOMB ASSEMBLY

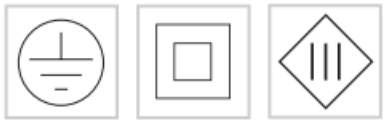




a) Make sure the honeycomb is placed between the diffuser & frontring

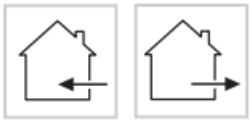


LIST OF SYMBOLS



Protection class

One, two or three



Application area

Indoor or outdoor

Application area

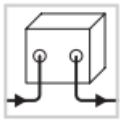
Floor, wall or ceiling

Swivel

Fixture is horizontally rotatable, indicated in degrees

Swivel

Fixture is vertically rotatable, indicated in degrees

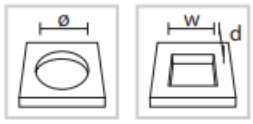


Multiple connection

Daisychain connectivity

Installation depth

In centimeters



Installation size

In centimeters

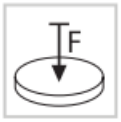
Cable length

Maximum cable attached to the fixture in centimeters

Driver

Inclusive or exclusive
Internal or external

Weight
In grams/kilograms



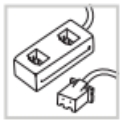
Pressure
Maximum pressure on the fixture in kg/cm²

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

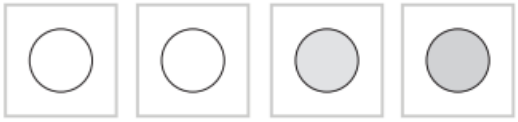
RGB, RGB-W, RGB-A, AWB or Tunable White

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

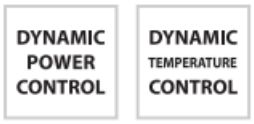
Traditional PWM dimming, DMX analog or DMX Hybrid dim

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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www.cls-led.com

Documents / Resources

	CLS DMX Ruby Compact Pendant [pdf] Installation Guide DMX up to 3000LM, DMX Ruby Compact Pendant, DMX, Ruby Compact Pendant, Compact Pendant, Pendant

References

- User Manual