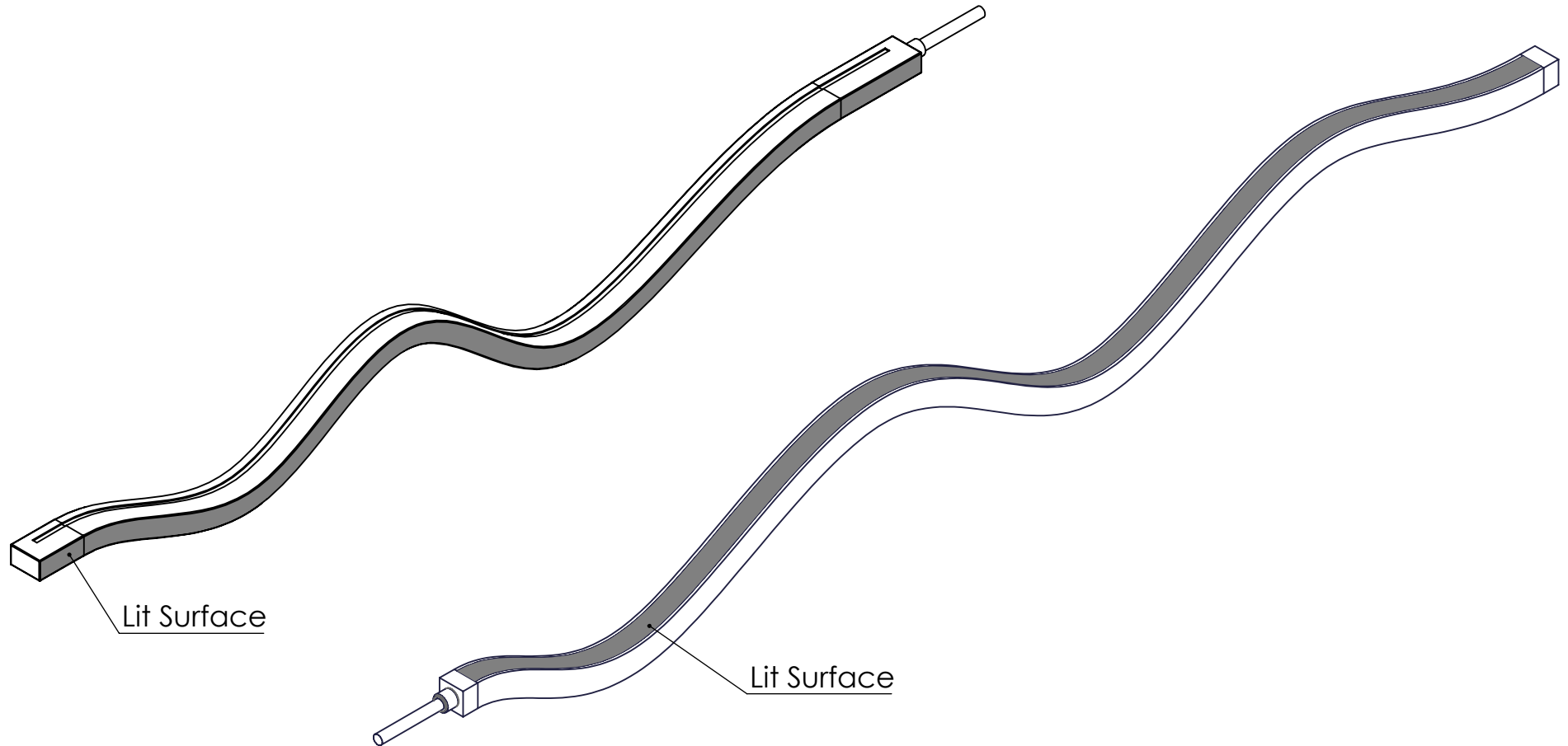


# MYSTRID FLEX Lx (MY F) \ Linear

**THORN**  
LIGHTING

## INSTALLATION INSTRUCTIONS



# MYSTRID FLEX Lx (MY F) \ Linear

**THORN**  
LIGHTING

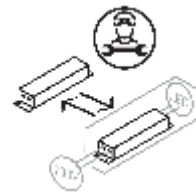
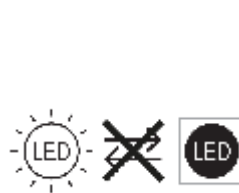
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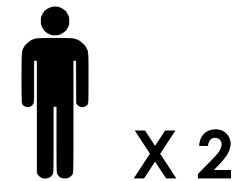
## TECHNICAL + INSTALLATION SUPPORT

PLEASE CONTACT - [technical.outdoorsales@zumtobelgroup.com](mailto:technical.outdoorsales@zumtobelgroup.com) / +44 01282 956000



**IP67**

**IK07**



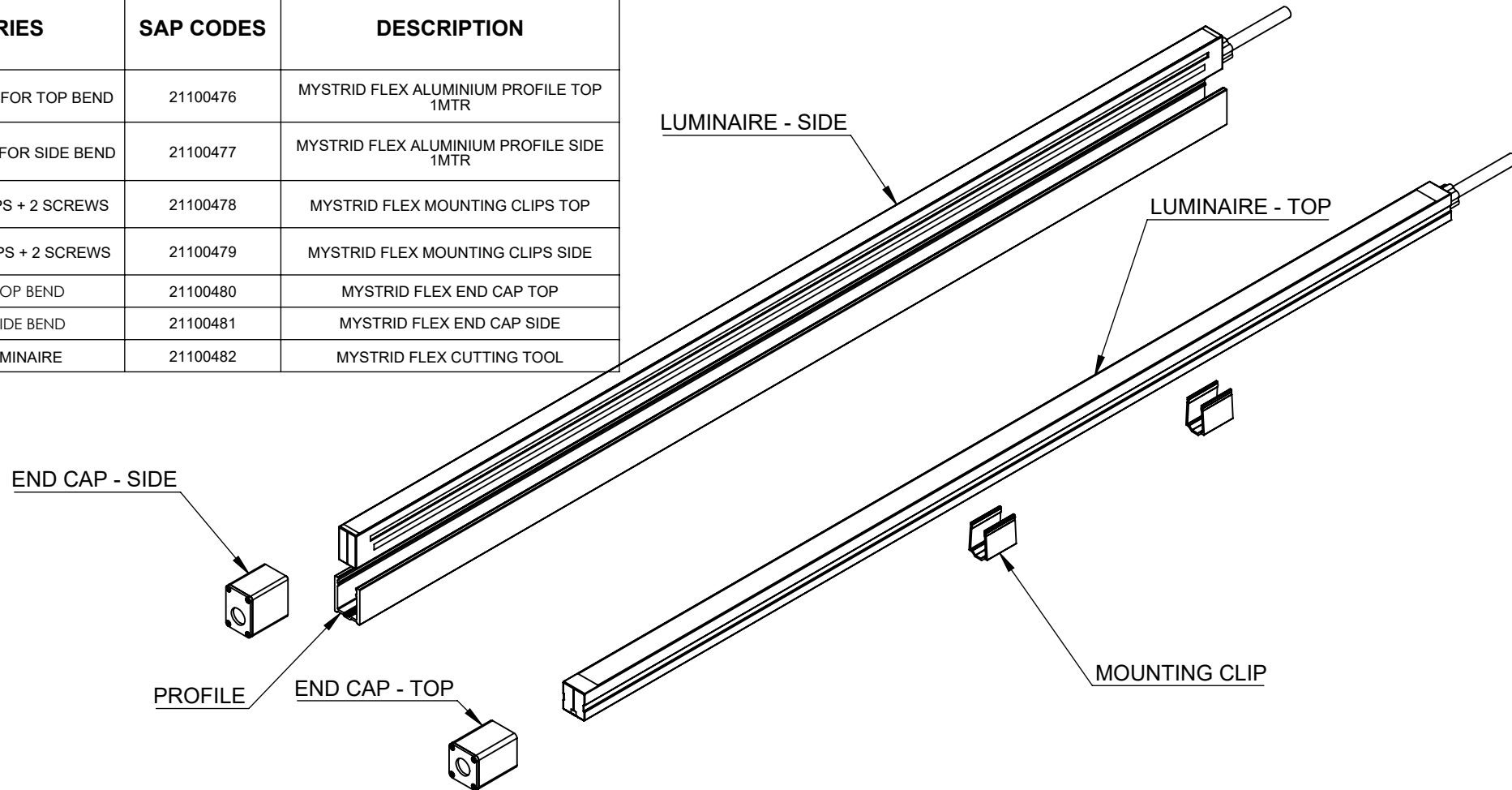
# MYSTRID FLEX Lx (MY F) \ Linear



## SYSTEM OVERVIEW

## INSTALLATION INSTRUCTIONS

ACCESSORIES	SAP CODES	DESCRIPTION
1M ALUMINIUM PROFILE FOR TOP BEND	21100476	MYSTRID FLEX ALUMINIUM PROFILE TOP 1MTR
1M ALUMINIUM PROFILE FOR SIDE BEND	21100477	MYSTRID FLEX ALUMINIUM PROFILE SIDE 1MTR
2X ALUMINIUM TOP CLIPS + 2 SCREWS	21100478	MYSTRID FLEX MOUNTING CLIPS TOP
2X ALUMINIUM SIDE CLIPS + 2 SCREWS	21100479	MYSTRID FLEX MOUNTING CLIPS SIDE
1X END CAP FOR TOP BEND	21100480	MYSTRID FLEX END CAP TOP
1X END CAP FOR SIDE BEND	21100481	MYSTRID FLEX END CAP SIDE
TOOL TO TRIM LUMINAIRE	21100482	MYSTRID FLEX CUTTING TOOL



# MYSTRID FLEX Lx (MY F) \ Linear



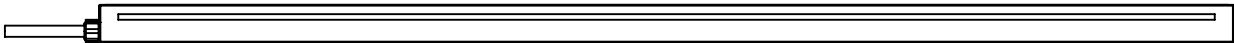
## WHATS IN THE BOX?

## INSTALLATION INSTRUCTIONS

### REQUIRED TOOLS

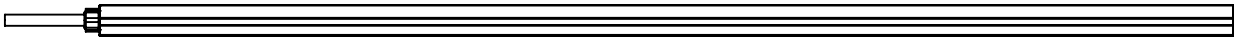


MYSTRID FLEX SIDE



OR

MYSTRID FLEX TOP



# MYSTRID FLEX Lx (MY F) \ Linear

**THORN**  
LIGHTING

## INSTALL STEPS - CLIP INSTALLATION

## INSTALLATION INSTRUCTIONS

### 1. SCREW CLIP TO SURFACE



CALCULATE THE NUMBER OF CLIPS NEEDED AND SCREW THEM WITH THE SCREWS PROVIDED TO THE INTENDED SURFACE.

CLIPS ALLOW YOU TO POSITION THEM SO YOU CAN BEND THE FITTING. (MAX BEND RADIUS 120MM)

TOP BEND CLIPS SHOULD BE SPACED A MAXIMUM OF 400MM APART FOR CEILING APPLICATIONS AND 600MM APART FOR WALL APPLICATIONS.

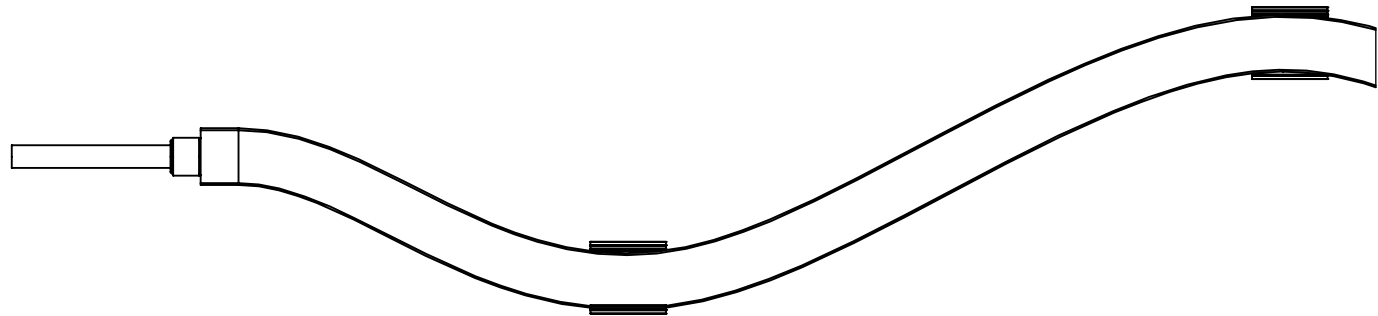
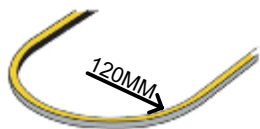
SIDE BEND CLIPS SHOULD BE SPACED A MAXIMUM DISTANCE OF 400MM APART FOR CEILING AND 300MM APART FOR WALL.



### 2. PUSH FITTING INTO CLIPS

PUSH THE FITTING INTO THE CLIPS.

DO NOT EXCEED THE 120MM BEND RADIUS.



TOP OPTIC CAN ONLY BEND VERTICALLY  
SIDE OPTIC CAN ONLY BEND HORIZONTALLY

# MYSTRID FLEX Lx (MY F) \ Linear

**THORN**  
LIGHTING

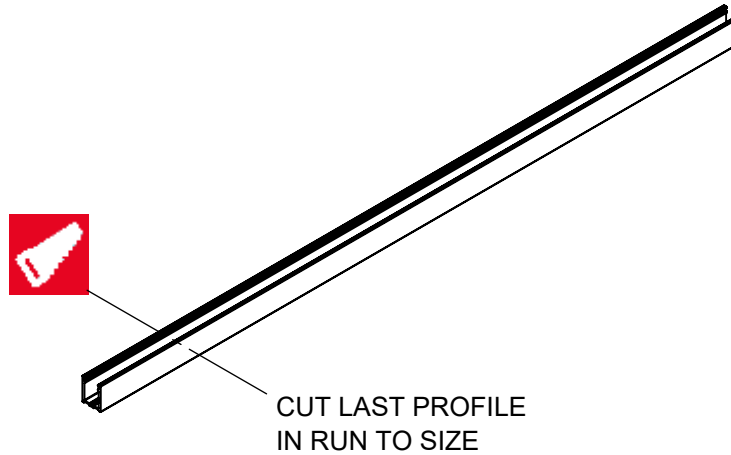
## INSTALL STEPS - PROFILE INSTALLATION

### 3. CUT AND DRILL PROFILE

CALCULATE THE LENGTH OF PROFILE NEEDED  
AND CUT TO SIZE.

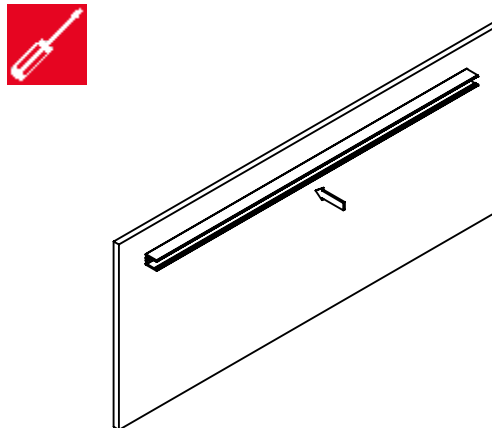
CREATE DRILL HOLES EVERY 500MM TO ALLOW YOU TO FIX THE  
PROFILE TO THE INTENDED SURFACE.

NOTE: MINIMUM OF X2 MOUNTING POINTS PER PROFILE LENGTH

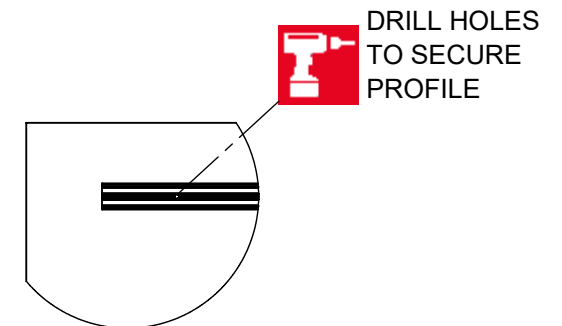
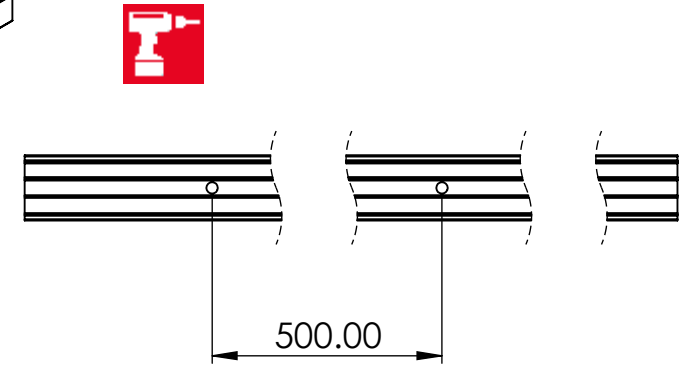


### 4. FIX PROFILE IN PLACE

SCREW THE PROFILE TO THE INTENDED SURFACE  
WITH CORRECT SECURING METHOD.



## INSTALLATION INSTRUCTIONS



# MYSTRID FLEX Lx (MY F) \ Linear

**THORN**  
LIGHTING

## INSTALL STEPS

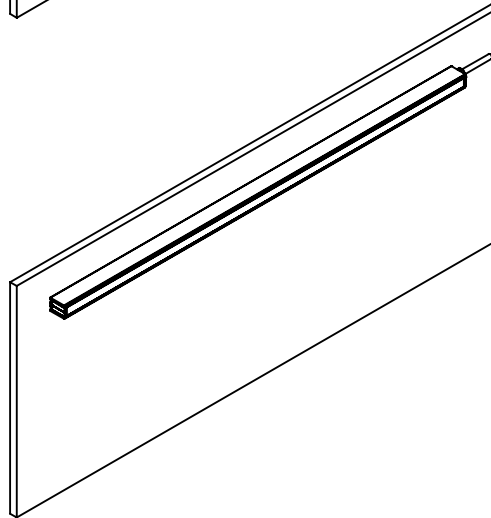
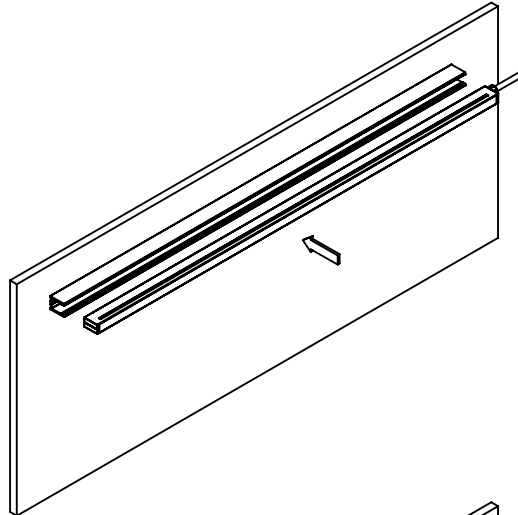
### 5. PUSH FITTING INTO PROFILE

START AT THE FEED END AND PUSH THE FITTING INTO THE PROFILE GRADUALLY. MAKING SURE THE FITTING IS FLUSH WITH THE FRONT EDGE OF THE PROFILE.

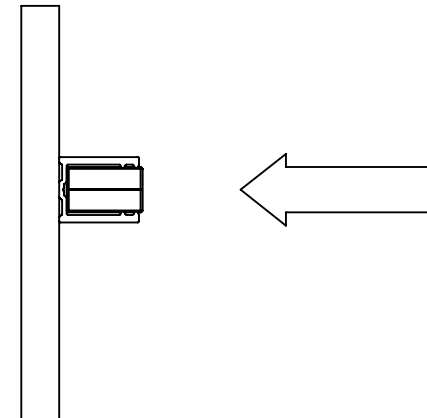
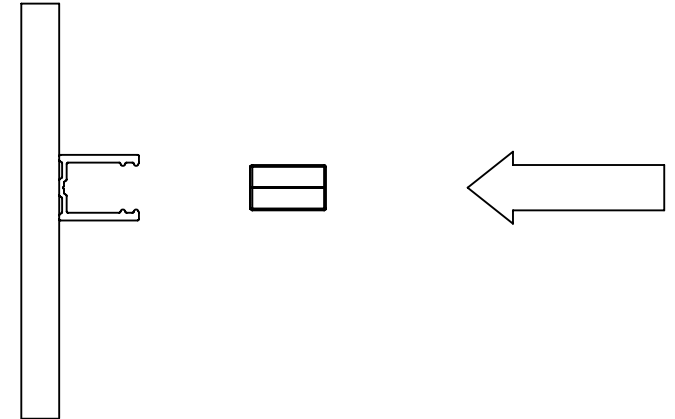
IF A CUT IS REQUIRED YOU SHOULD DO THIS ON THE LAST FITTING IN THE RUN.

IF CUT YOU WILL NEED AN END CAP.

PLEASE NOTE: IF END CAP IS REQUIRED IT WILL NOT FIT INTO EXTRUSION AND PROFILE WILL NEED TO BE CUT SHORTER TO ACCOUNT FOR THIS.



## INSTALLATION INSTRUCTIONS



# MYSTRID FLEX Lx (MY F) \ Linear



## INSTALL STEPS

### 6A. CUT FINAL FITTING

IF A CUT HAS BEEN MADE YOU WILL NEED TO APPLY AN END CAP TO MAKE THE LUMINAIRE SAFE AND KEEP THE IP INTEGRITY.

END CAP TO BE APPLIED TO THE END OF A RUN, ONLY ONE WILL BE NEEDED.

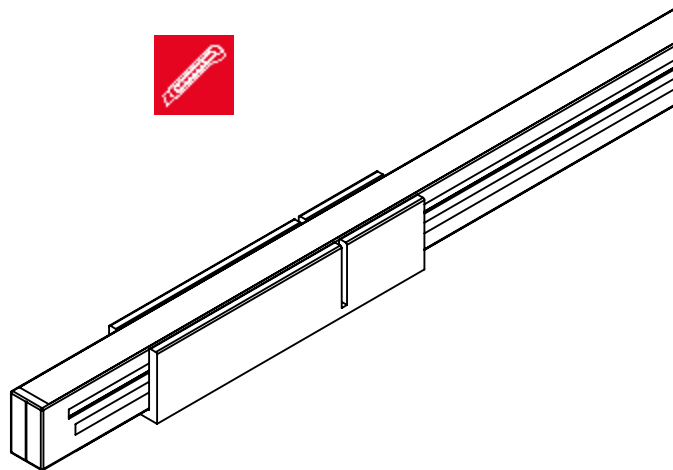
USE THE CUTTING TOOL TO MAKE A STRAIGHT CUT.

NOTE: IF CUT IS NOT STRAIGHT IT COULD VOID IP RATING.

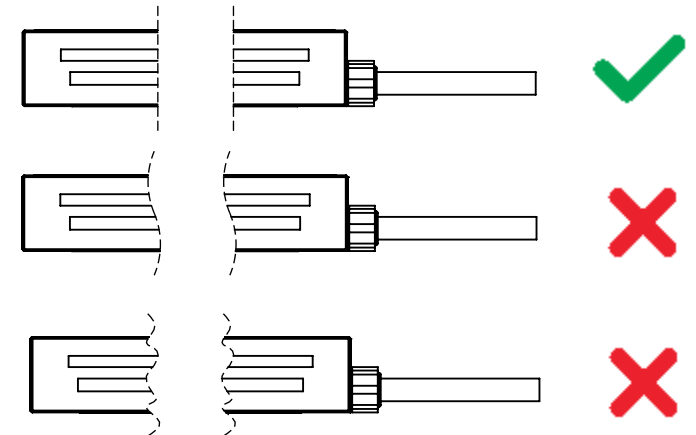
SINGLE COLOUR - CUTS TO BE CREATED ALONG THE DASHED CUT LINE INBETWEEN THE COPPER STRIP WHERE SCISSORS ARE SHOWN.

RGBW / DYNAMIC WHITE - CUTS TO BE CREATED ALONG THE SLIM BLACK LINE INBETWEEN THE COPPER STRIP.

REFER TO CUT VARIANT TABLE.



## INSTALLATION INSTRUCTIONS



CUT VARIANTS	
SINGLE COLOUR	50MM
RGBW	62.5MM
DYNAMIC WHITE	50MM



# MYSTRID FLEX Lx (MY F) \ Linear

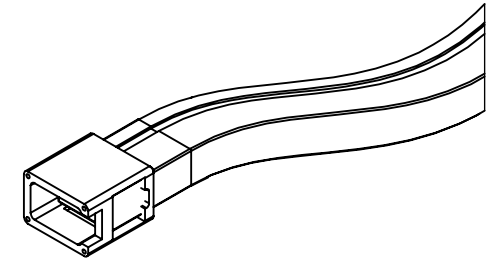
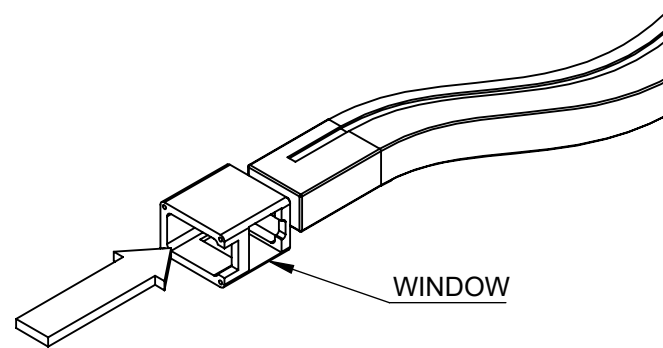
**THORN**  
LIGHTING

## INSTALL STEPS

### 6B. INSERT TRANSPARENT SHELL

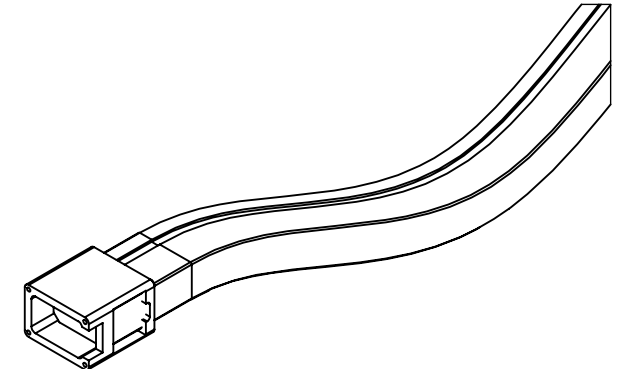
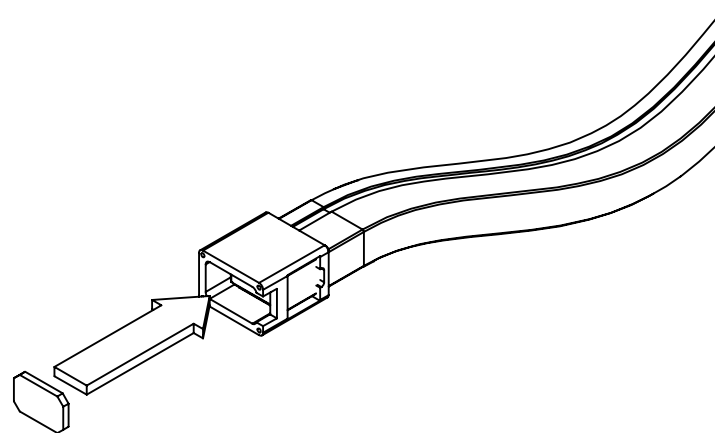
INSERT THE TRANSPARENT SHELL INTO THE LUMINAIRE UNTIL IT BOTTOMS OUT.

MAKE SURE THE WINDOW IS LOCATED AT THE BOTTOM OF THE LUMINAIRE.



### 6C. INSERT SILICONE SEAL

INSERT SILICONE INTO THE END OF THE SHELL.



# MYSTRID FLEX Lx (MY F) \ Linear

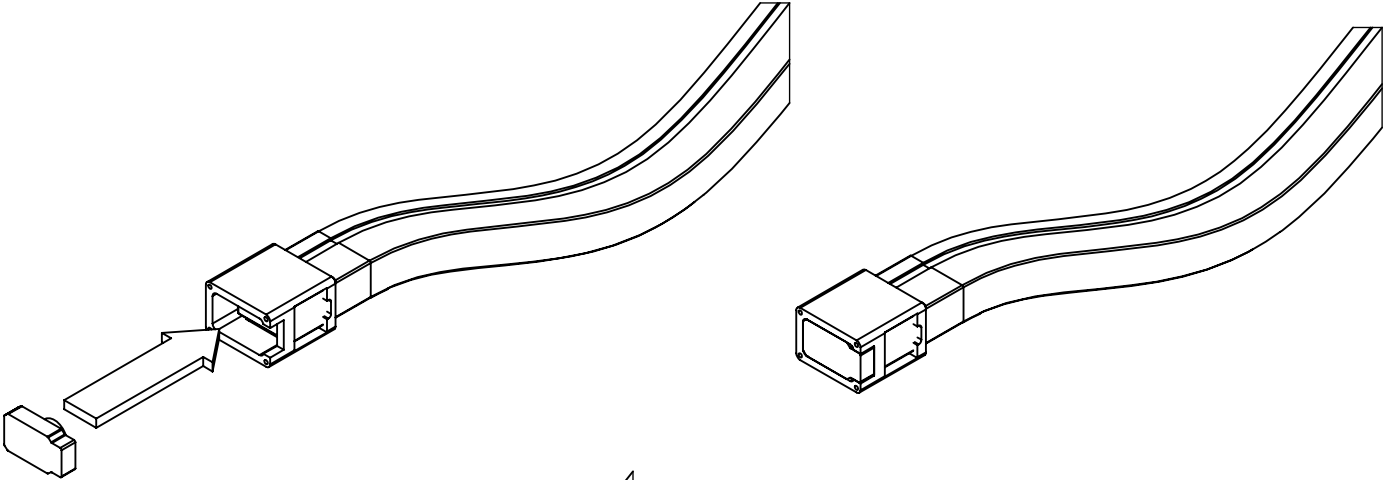


## INSTALL STEPS

## INSTALLATION INSTRUCTIONS

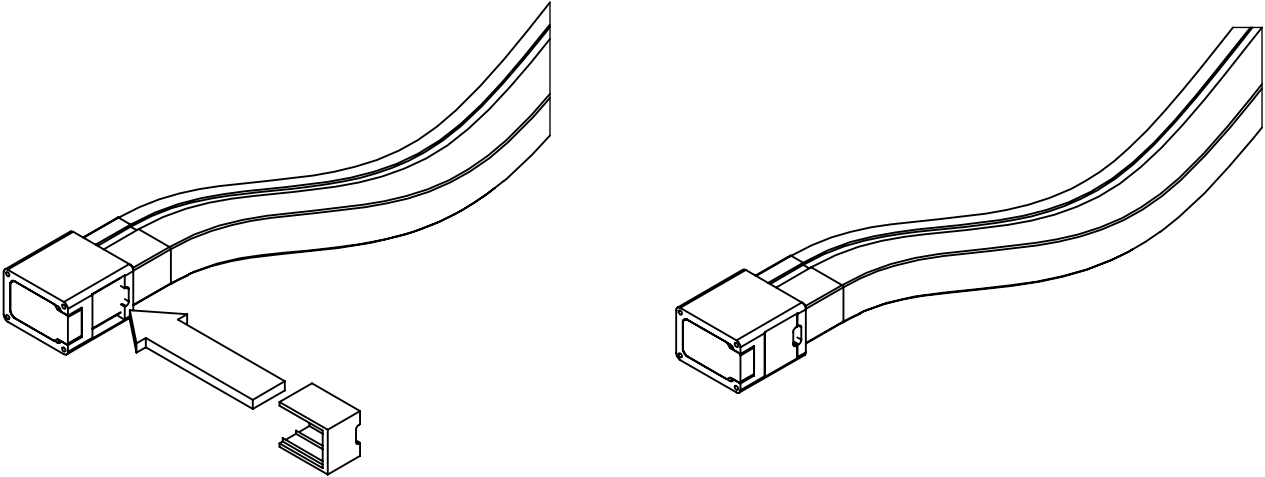
### 6D. INSERT PLUG

INSERT THE PLUG INTO THE CORRESPONDING HOLE ON THE SHELL.



### 6E. INSERT STOPPER

INSERT THE STOPPER INTO THE CORRESPONDING HOLE ON THE SHELL.



# MYSTRID FLEX Lx (MY F) \ Linear

**THORN**  
LIGHTING

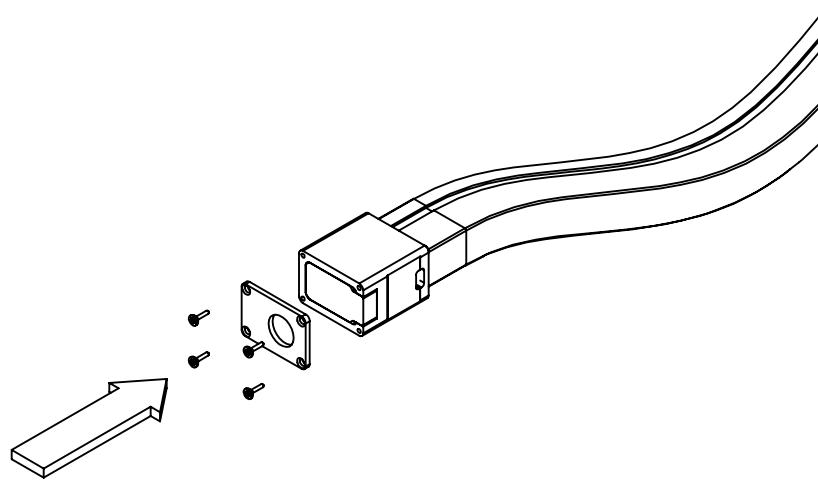
## INSTALL STEPS

### 6F. SCREW METAL END PLATE TO SHELL

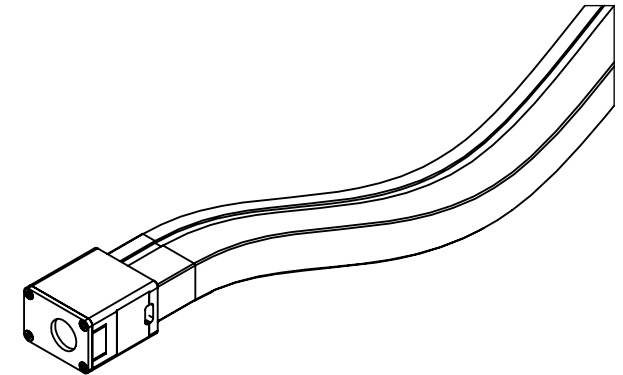
PLACE END PLATE ONTO THE SHELL AND SCREW TO SECURE.

END CAP IS NOW INSTALLED CORRECTLY.

NOTE: FAILURE TO FOLLOW THESE INSTRUCTIONS MAY RESULT IN IP FAILURE.



## INSTALLATION INSTRUCTIONS



### 7. CLEANING INSTRUCTIONS

FOR CLEANING USE A CLEAN, MOIST CLOTH AND MATERIAL-COMPLIANT DETERGENTS.

# MYSTRID FLEX Lx (MY F) \ Linear



## WIRING / DRIVER INFORMATION

## INSTALLATION INSTRUCTIONS

### WIRING TABLE

DIMMING PROTOCOL	DESCRIPTION	CORE COLOUR
SINGLE COLOUR	24V +	RED
	24V -	BLACK
DYNAMIC WHITE	24V + (COMMON)	BROWN
	24V - (WARM WHITE)	YELLOW
	24V - (COLD WHITE)	WHITE
RGBW	24V - (RED)	RED
	24V + (COMMON)	BLACK
	24V - (BLUE)	BLUE
	24V - (GREEN)	GREEN
	24V - (WHITE)	WHITE

MAXIMUM VOLTAGE DROP IS 0.5V

FOR WIRING EXAMPLES PLEASE SEE  
MYSTRID FLEX - WIRING EXAMPLES AVAILABLE ON OUR WEBSITE

### RUN LENGTHS

PRODUCT VARIANT	PROTECTION CLASS	VOLTAGE (V)	MAX CURRENT (A) PER METER	MAX POWER (W) PER METER	MAX SYSTEM LENGTH (M)
SINGLE COLOUR	3	24	0.416	10	17
RGBW	3	24	0.625	15	5
DYNAMIC WHITE	3	24	0.416	15	5

### DRIVER AND CONTROL OPTIONS

DRIVER SAP CODE	DRIVER DESCRIPTION	MIN RUN LENGTH	MAX RUN LENGTH	MAX WATTS	DIMENSIONS (L X W X H)	IP RATING
21903619	DRIVER 1900/CV24/70W	1.5M	7.5M	75	131 X 42 X 34	IP67
21903620	DRIVER 1900/CV24/175W	6.9M	17.5M	175	206 X 69 X 37	IP67
21100355	DRIVER 1900/CV24/320W	16M	32M	320	259 X 90 X 44	IP67
21100485	DMX DECODER (1CH)	1.5M (70W PSU) 6.9M (175W PSU) 16M (320W PSU)	7.5M (70W PSU) 17.5M (175W PSU) 28.8M (320W PSU)	288	175 X 44 X 30	IP20
21100486	DMX DECODER (2CH) *	5.4M (175W PSU) 12M (320W PSU)	11.6M (175W PSU) 12.8M (320W PSU)	200	153 X 50 X 23	IP20
21100483	DMX DECODER (4CH)	1.2M (70W PSU) 5.4M (175W PSU) 16M (320W PSU)	5M (70W PSU) 11.6M (175W PSU) 21.3M (320W PSU)	480	175 X 44 X 30	IP20
21100484	24V DALI DIMMING UNIT (1CH)	1.5M (70W PSU) 6.9M (175W PSU) 16M (320W PSU)	7.5M (70W PSU) 17.5M (175W PSU) 19.2M (320W PSU)	200	153 X 50 X 23	IP20
21100488	24V DALI DIMMING UNIT (2CH DT8)	1.2M (70W PSU) 5.4M (175W PSU) 12M (320W PSU)	5M (70W PSU) 11.6M (175W PSU) 12.8M (320W PSU)	224	153 X 50 X 23	IP20
21100489	24V DALI DIMMING UNIT (2CH DT6)	1.2M (70W PSU) 11.6M (175W PSU) 12M (320W PSU)	5M (70W PSU) 11.6M (175W PSU) 12.8M (320W PSU)	220	153 X 50 X 23	IP20
21100487	24V DALI DIMMING UNIT (4CH) *	5.4M (175W PSU) 16M (320W PSU)	11.6M (175W PSU) 21.3M (320W PSU)	720	153 X 50 X 23	IP20

\*Note: 21100486 / DMX Decoder (2CH) and 21100487 / 24V Dali Dimming Unit (4CH) are not compatible with the 70W PSU.

#### WARNING!

DO NOT CONNECT THIS ROPE LIGHT TO ANOTHER MANUFACTURER'S PRODUCT

DO NOT CONNECT THIS ROPE LIGHT TO THE SUPPLY WHILE IT IS IN THE PACKAGING OR WOUND ONTO A REEL

#### WARNING!

IP20 RATED DRIVERS MUST BE PLACED IN AN IP RATED BOX / SUITABLE ENVIRONMENT

WIRING BETWEEN PSU AND DIMMING UNIT MAY REQUIRE ADDITIONAL CONNECTION POINTS (SUPPLY BY OTHERS)

# MYSTRID FLEX Lx (MY F) \ Linear

**THORN**  
LIGHTING

## WARNINGS

### ENGLISH

- Only to be installed by a qualified electrician.
- Disconnect the unit from mains power before installing or servicing to avoid shock.
- Installation must be carried out in accordance with national and local standards.
- Class 1 luminaires must be earthed.
- Class 3 luminaires must only be used with Class 2 power supply (US markets only).
- Use correct polarity when wiring. If in any doubt contact the installation helpline.
- Thorn luminaires are designed for lighting applications and must not be used for any other purpose.
- Do not exceed the product specified power ratings.
- Unauthorised repairs or modifications will void warranty.
- Thorn is not liable to provide corrosion suitable fixings for installation.
- Maximum static loads for in-ground product.

### FRANCAIS

- Ne doit être installé que par un électricien qualifié.
- Débranchez l'appareil de son alimentation secteur avant d'installer ou d'entretenir.
- L'installation doit être effectuée conformément aux normes nationales et locales.
- Les luminaires de classe 1 doivent être mis à la terre.
- Les luminaires de classe 3 ne doivent être utilisés qu'avec une alimentation de classe 2.
- (Marchés américains uniquement).
- Utilisez la polarité correcte lors du câblage. En cas de doute, contactez la ligne d'assistance de l'installation.
- Les luminaires Thorn sont conçus pour des applications d'éclairage et ne doivent pas être utilisés à d'autres fins.
- Ne dépassez pas les valeurs de puissance spécifiées par le produit.
- Les réparations ou modifications non autorisées annulent la garantie.
- Thorn n'est pas susceptible de fournir des fixations adaptées à la corrosion pour l'installation.
- Charges statiques maximales pour le produit dans le sol.

### DEUTSCHE

- Nur von einem Elektrofachmann installiert werden.
- Trennen Sie das Gerät vom Netz, bevor Sie die Wartung des Servers durchführen, um Stöße zu vermeiden.
- Die Installation muss gemäß den nationalen und lokalen Normen durchgeführt werden.
- Leuchten der Klasse 1 müssen geerdet sein.
- Leuchten der Klasse 3 dürfen nur mit Netzteil der Klasse 2 verwendet werden. (Nur US-Märkte).
- Bei der Verdrahtung die richtige Polarität verwenden.
- Bei Zweifeln wenden Sie sich bitte an die Installations-Helpline.
- Thorn-Leuchten sind für Beleuchtungsanwendungen ausgelegt und dürfen nicht für andere Zwecke verwendet werden.
- Überschreiten Sie nicht die angegebenen Produktleistungen.
- Unbefugte Reparaturen oder Änderungen erlischt.
- Thorn haftet nicht für korrosionsgeeignete Befestigungen zur Montage.
- Maximale statische Belastungen für Bodenprodukte.

### ITALIANO

- Solo per essere installato da un elettricista qualificato.
- staccare l'apparecchio dalla corrente prima installandolo manutenzione per evitare urti.
- L'installazione deve essere effettuata in conformità con le norme nazionali e locali.
- Classe 1 apparecchi devono essere messi a terra.
- Classe 3 apparecchi devono essere utilizzati solo con classe 2 di alimentazione (Mercati USA solo).
- Utilizzare la corretta polarità durante il cablaggio. In caso di dubbio contattare il servizio di assistenza di installazione.
- Gli apparecchi Thorn sono progettate per applicazioni di illuminazione e non devono essere utilizzati per altri scopi.
- Non superare il prodotto specificato potenze.
- Riparazioni o modifiche non autorizzate saranno invalidare la garanzia.
- Thorn non è suscettibile di fornire elementi corrosivi adatti alla corrosione per l'installazione.
- Carichi statici massimi per prodotto in terra.

### ENGLISH

- This product is not to be installed under water.
- The fitting should not be exposed to harsh chemicals. (e.g. Acids, fertilisers or lime).
- Never allow visible parts of the luminaire to be covered.
- Luminaire must not be cleaned with high pressure washers.
- The fittings is not suitable for use in high chlorine environments such as spas and swimming pools.
- Do not expose the luminaire to petroleum.
- All electrical connections must be sealed to IP67.
- Operational ambient temperature range -25°C to 45°C for Single Colour.
- Operational ambient temperature range -25°C to 35°C for RGBW and Dynamic White.
- Do not use if the luminaire, connectors or cabling are damaged.

### FRANCAIS

- Ce produit ne doit pas être installé sous l'eau.
- Le raccord ne doit pas être exposé à des produits chimiques agressifs (par exemple, des acides, des engrais ou de la chaux).
- Ne laissez jamais le luminaire être recouvert.
- Le luminaire ne doit pas être nettoyé avec des rondelles haute pression.
- Les raccords ne conviennent pas aux environnements à forte teneur en chlore tels que les spas et les piscines.
- N'exposez pas le luminaire au pétrole.
- Toutes les connexions électriques doivent être scellées selon IP67.
- Température ambiante d'utilisation -25°C to 45°C pour couleur unique.
- Température ambiante d'utilisation -25°C to 45°C pour RGBW und blanc dynamique.
- Ne pas utiliser si le luminaire, les connecteurs ou le câblage sont endommagés.

### DEUTSCHE

- Dieses Produkt darf nicht unter Wasser installiert werden.
- Die Armatur darf nicht harten Chemikalien ausgesetzt sein (z. B. Säuren, Düngemittel oder Kalk).
- Die Leuchte niemals bedecken lassen.
- Die Leuchte darf nicht mit Hochdruckreinigern gereinigt werden.
- Die Armaturen eignen sich nicht für den Einsatz in Hochchlor-Umgebungen wie Spas und Schwimmbädern.
- Setzen Sie die Leuchte nicht dem Erdöl aus.
- Alle elektrischen Anschlüsse müssen nach IP67 versiegelt werden.
- Betriebsbereichstemperaturbereich -25°C to 45°C vor einfarbig.
- Betriebsbereichstemperaturbereich -25°C to 35°C vor RGBW und dynamisch weiss.
- Nicht verwenden, wenn die Leuchte, die Steckverbinder oder die Verkabelung beschädigt sind.

### ITALIANO

- Questo prodotto non deve essere installato sotto l'acqua.
- Il raccordo non deve essere esposto a sostanze chimiche aggressive. (Acidi, fertilizzanti o calce ad es).
- Non permettere mai che l'apparecchio da coprire.
- Apparecchio non deve essere pulito con idropulitrici.
- I raccordi non è adatto per l'uso in ambienti ad alta cloro, come terme e piscine.
- Non esporre l'apparecchio al petrolio.
- I collegamenti elettrici devono essere sigillati IP67.
- Operativo Temperatura ambiente -25°C to 45°C per monocolore.
- Operativo Temperatura ambiente -25°C to 35°C per RGBW e bianco dinamico .
- Non utilizzare se l'apparecchio, connettori o cavi sono danneggiati.