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Must be installed by a qualified electrician in accordance with all national and local electrical and construction codes and regulations. Ensure system is de-energized before installation. Review electrical plans and read all installation instructions prior to installation. Failure to comply with the following installation instructions will void the warranty and may result in serious injury or possible death. With the constant development of our products please check our website (www.modalight.com) for the latest installation guide.

La instalación debe ser realizada por un electricista cualificado, de acuerdo con todos los códigos y normativas eléctricas y de construcción nacionales y locales. Asegúrese de que el sistema esté desconectado de la corriente antes de la instalación. Revise los planos eléctricos y lea todas las instrucciones de instalación antes de la instalación. El incumplimiento de las siguientes instrucciones de instalación anulará la garantía y podría provocar lesiones graves o incluso la muerte. Debido al constante desarrollo de nuestros productos, consulte nuestro sitio web (www.modalight.com) para obtener la guía de instalación más actualizada.

L'installation doit être effectuée par un électricien qualifié, conformément à tous les codes et réglementations électriques et de construction nationaux et locaux. Assurez-vous que le système est hors tension avant l'installation. Consultez les plans électriques et lisez toutes les instructions d'installation avant l'installation. Le non-respect des instructions d'installation suivantes annulera la garantie et peut entraîner des blessures graves, voire mortelles. Nos produits étant en constante évolution, veuillez consulter notre site web (www.modalight.com) pour obtenir le guide d'installation le plus récent.

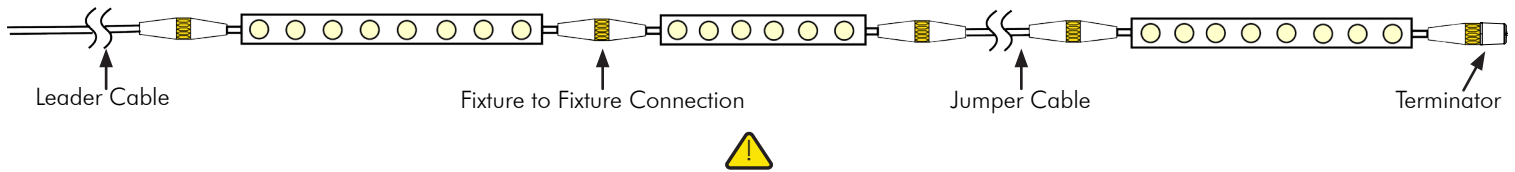
WET LOCATION INSTALL
INSTALACIÓN EN LUGARES HÚMEDOS
INSTALLATION EN EMPLACEMENT HUMIDE

2

Verify electrical plan and ensure all hardware is present

Verificar plan eléctrico y verifique que todo el equipo esté presente

Vérifier le plan électrique et assurer que tout le matériel est présent



Continuidad Máxima: 11 1/2ft (3500mm) con un máximo de 5 conexiones eléctricas por caída de tensión

Run Continue Max: 11 1/2ft (3500mm) avec un maximum de 5 connexions électriques en raison d'une chute de tension

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Compatible driver list

Lista de controladores compatibles

Liste des pilotes compatibles

Driver	Voltage Range	Wattage	IP Rating	Max Load
MPND96	120-277V AC	96W	IP66	11 1/2ft (3500mm) Per Driver

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Voltage Drop

Caída de tensión

Chute de tension

Wattage	Maximum cable length from LED Driver to Start of Flex (in feet)				
	14AWG	16AWG	18AWG	20AWG	22AWG
24W	294	187	115	74	45
48W	136	86	53	34	21
72W	80	51	31	20	N/A
96W	48	31	19	12	N/A
120W	27	17	10	N/A	N/A

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Power Consumption

Consumo de energía

Consommation d'énergie

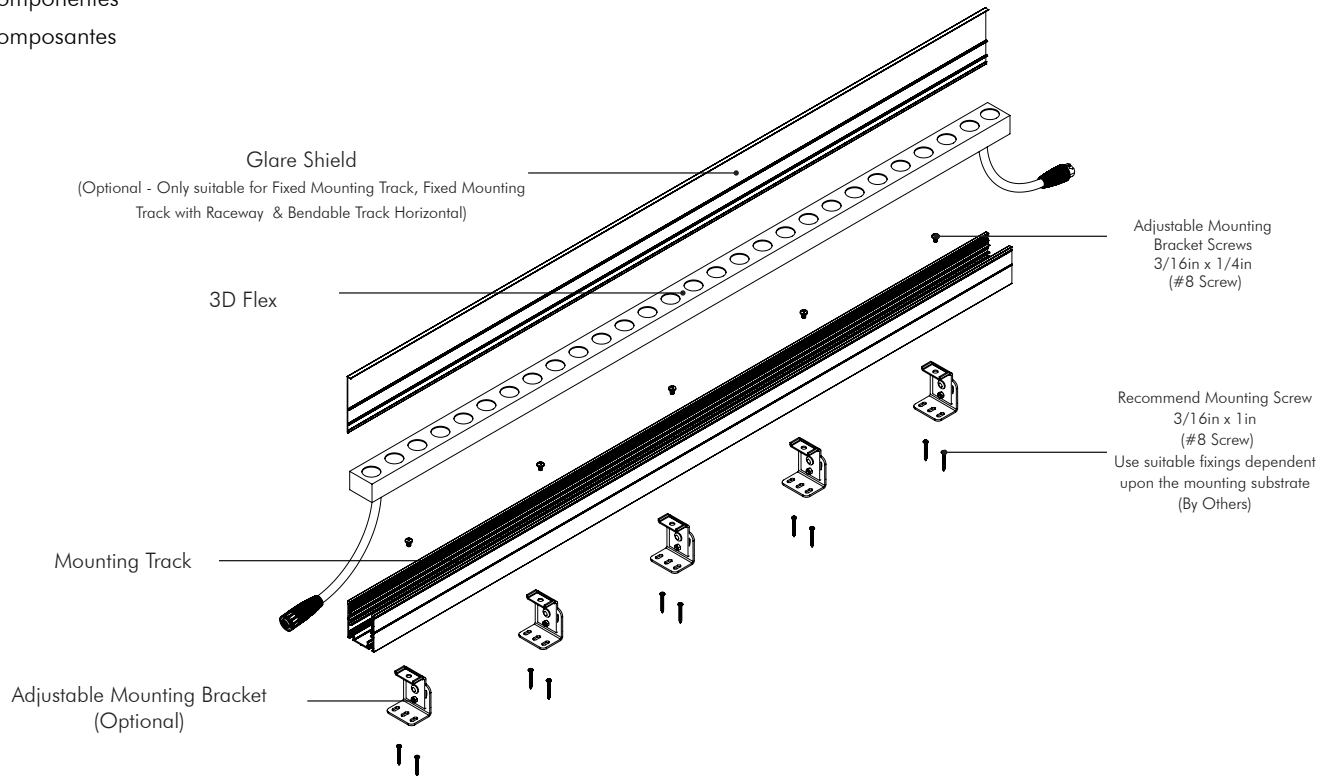
Nominal Length	W/ft	Total Wattage	Nominal Length	W/ft	Total Wattage
1ft	7.3	7.3W	7ft	7.3	51.1W
2ft	7.3	14.6W	8ft	7.3	58.4W
3ft	7.3	21.9W	9ft	7.3	65.7W
4ft	7.3	29.2W	10ft	7.3	73W
5ft	7.3	36.5W	11ft	7.3	80.3W
6ft	7.3	43.8W			

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Components

Componentes

Composantes



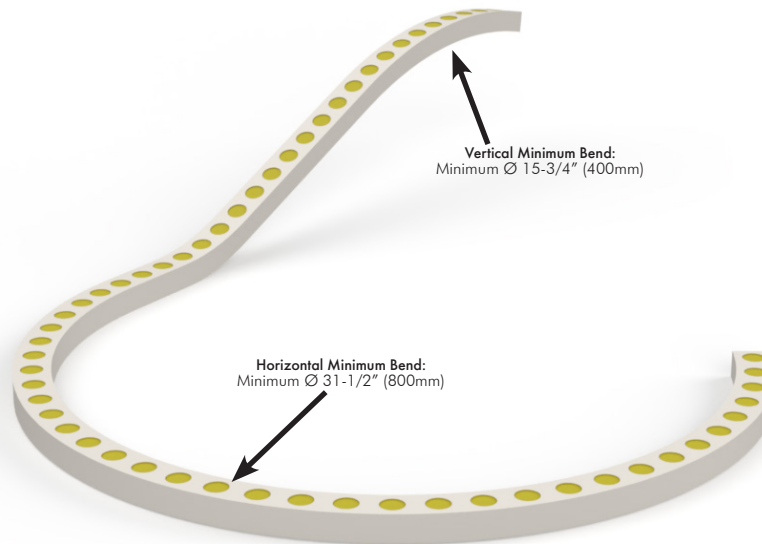
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Bending Specification

Especificación de flexión

Spécification de pliage

Unlike conventional flexible fixtures restricted to a single bending axis, the Moda 3D Flex Graze and Wash are engineered for multi-axis flexibility, enabling both horizontal and vertical articulation to accommodate complex architectural geometries. Care must be taken to ensure that all bends remain within the maximum horizontal and vertical bend radius specified in this document to prevent mechanical stress or damage to the fixture.



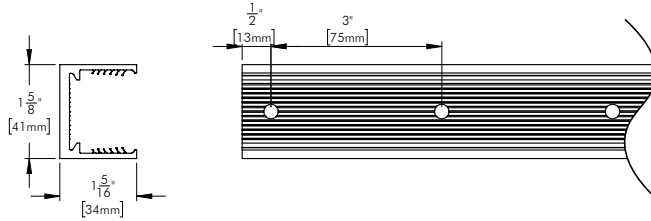
8

3D Bendable Track

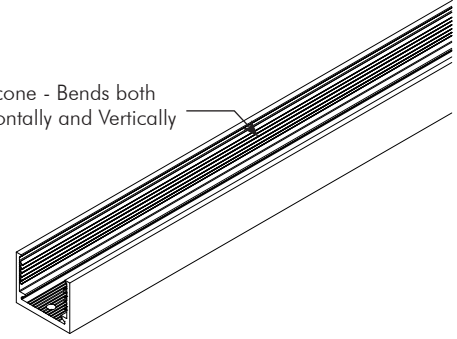
Montaje de riel flexible en 3D

Montage de rails flexibles en 3D

The 3D Bendable Track bends both horizontally and vertically, adapting effortlessly to any installation. Silicone housing enables the profile to work in harsh conditions such as seaside and pools.



Silicone - Bends both Horizontally and Vertically



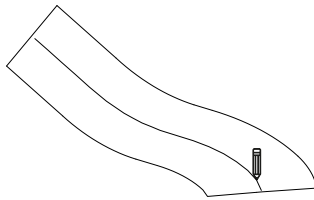
9

3D Bendable Track Installation

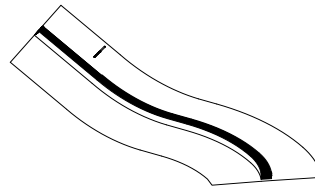
Instalación de vías

Installation de la piste

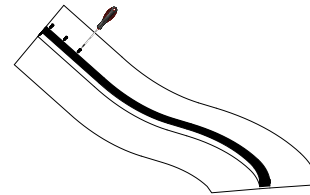
Step 1: Mark the installation area



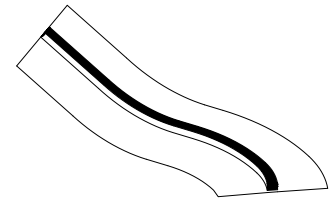
Step 2: If necessary drill a pilot hole.



Step 3: Fasten the mounting track with appropriate fixings (by others)



Step 4: Keep the track clear of debris before installing 3D Flex to avoid damage and water ingress.



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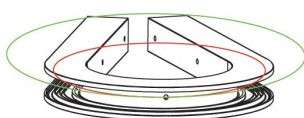
3D Bendable Track Mounting Notes

Notas sobre el montaje de la pista flexible 3D

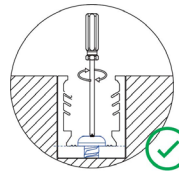
Notes relatives au montage des rails flexibles 3D

Ensure the mounting surface is level before installing each 3D Bendable Track. Suitable substrates include steel, aluminum, concrete, or wood. Use hardware, bolts, or screws (supplied by others) that are properly sized for the mounting bracket bases and appropriate for the installation surface.

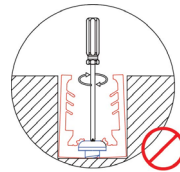
Do Not Over bend



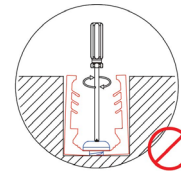
Bending Maximum	
Vertical Bending	Ø 15 3/4" (400mm)
Horizontal Bending	Ø 31 1/2" (800mm)



Ensure the screw is properly installed.



Do not over tighten the screw, as this may crush the silicone housing or deform the profile's internal structure.



No cutting is advised, otherwise the metal inside will get rusted.

Installation Note: The 3D Mounting Track is not suitable for ceiling installation.

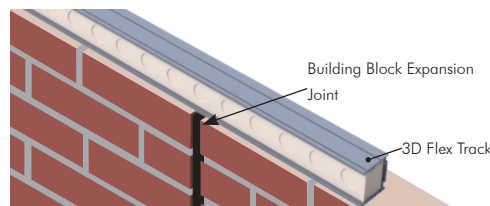
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Expansion Gap

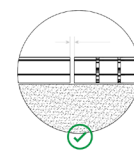
Brecha de expansión

Joint de dilatation

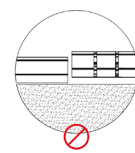
Leave around 3/16" (5mm) space between mounting track for an expansions gap.



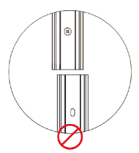
Offset 3D Flex Track joints from structural expansion seams to prevent stress on the fixture.



NO Horizontal Misalignment



NO Vertical Misalignment



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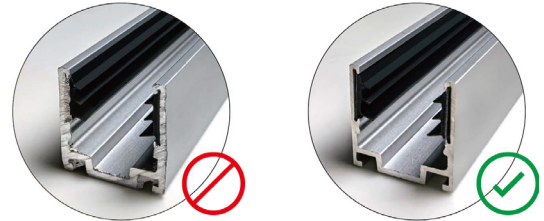
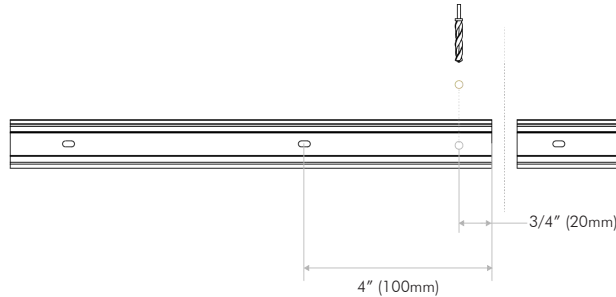
Fixed and Bendable Track Fabrication

Fabricación de rieles fijos y flexibles

Fabrication de rails fixes et flexibles

The mounting track can be cut according to your requirement.

If the Section end is 4" (100mm) away from the hole, drill a 3/16" (5mm) hole, about 3/4" (20mm) from the end to fasten the mounting track.



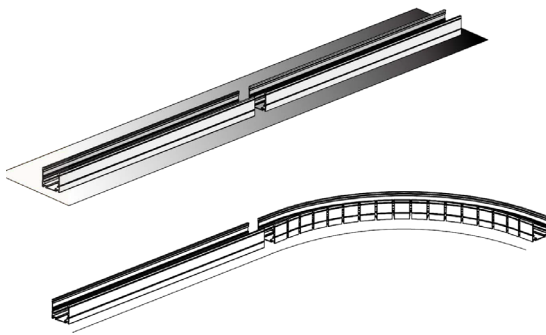
Smooth burred edges after cutting to prevent potential damage to the 3D Flex that could cause water ingress.

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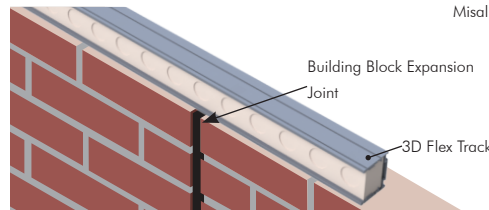
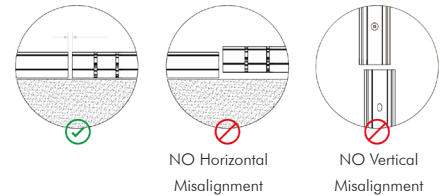
Track Joining

Unión de vías

Jointure de voie



Leave around 3/16" (5mm) space between joints



Expansion Joints

Do not align Flex Track joints with structural expansion joints. Ensure that connections between successive Flex Track are offset from any surface expansion seams to prevent stress on the 3D Flex at joint locations.

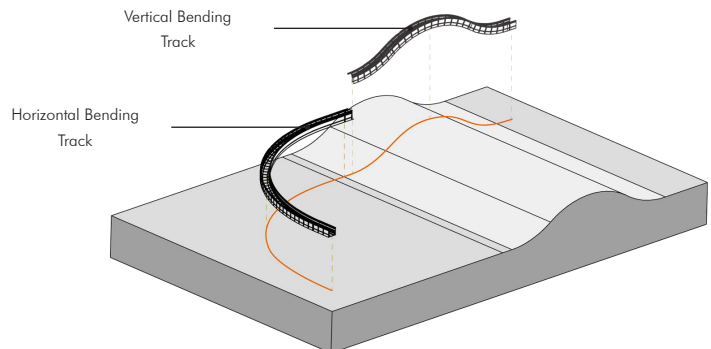
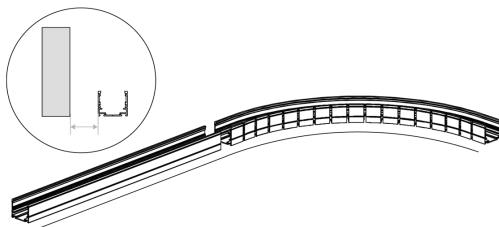
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Pre-Installation: Fixed and Bendable Track

Preinstalación: Riel fijo y flexible

Pré-installation : Rail fixe et rail flexible

Step 1: Select your desired area for installation. If curved shapes are required, mark out the outline of the installation first and place the corresponding bendable Tracks on the marked zone.



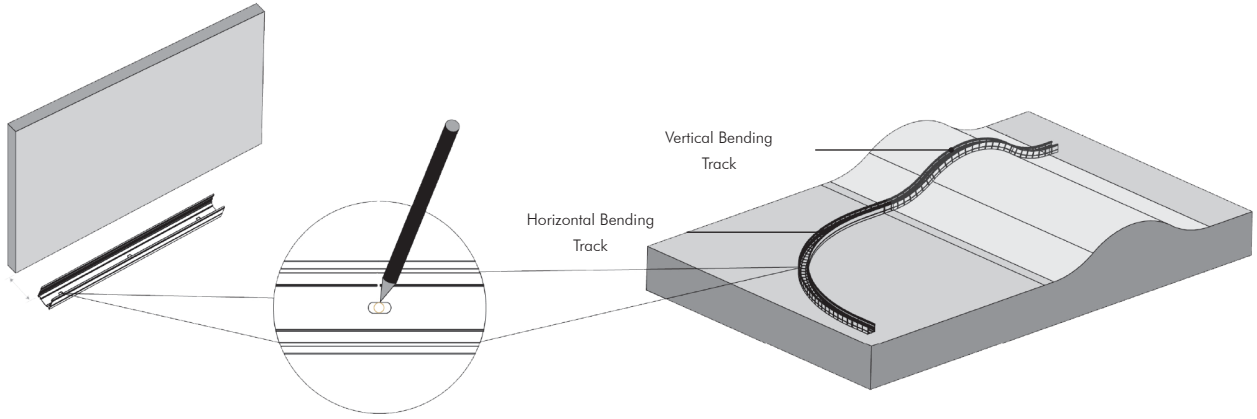
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Fixed and Bendable Track Installation

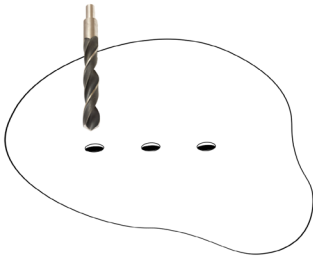
Instalación de rieles fijos y flexibles

Installation de rails fixes et flexibles

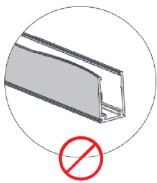
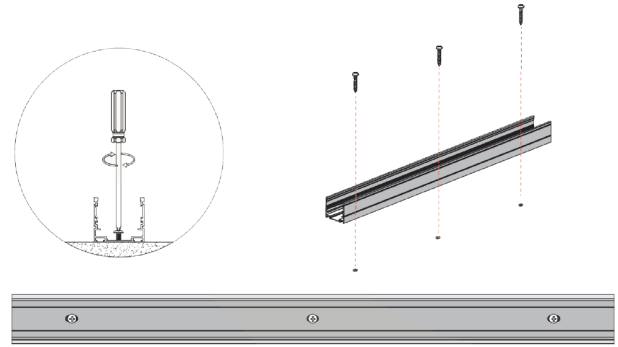
Step 2: Mark out the drill holes.



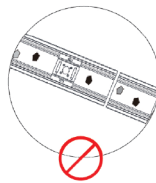
Step 3: For concrete surfaces drill $\varnothing 1/8"$ (3.2mm) holes for fastening points. Wooden surfaces will not require pre-drilling.



Step 4: Fasten the mounting track with self-tapping screws.



Do not use damaged or deformed mounting tracks.



Ensure the track is clear of debris before installing 3D Flex, in order to prevent the Flex from being damaged and causing potential water ingress.

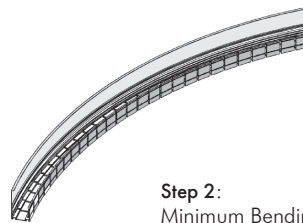
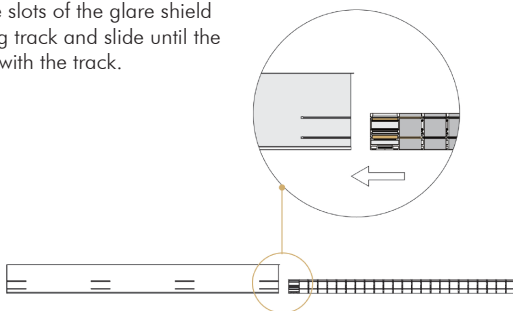
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Glare Shield - Optional Accessory

Protector antideslumbrante - Accesorio opcional

Écran anti-éblouissement - Accessoire en option

Step 1: Align the slots of the glare shield with the mounting track and slide until the shield is aligned with the track.



Step 2:

Minimum Bending Diameter: $\varnothing 47-1/4"$ (1200mm)

The glare shield must be installed with the bendable track first in order to shape together.

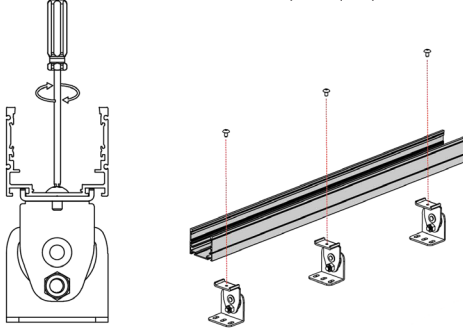
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Adjustable Mounting Bracket

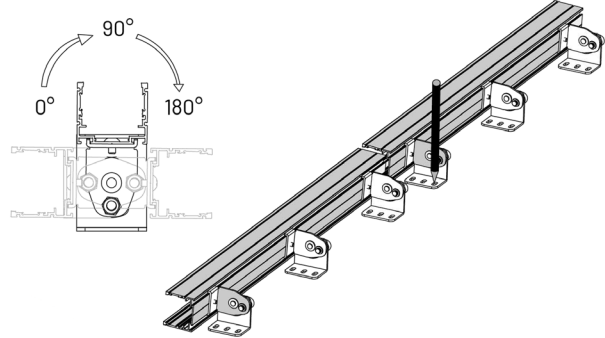
Soporte de montaje ajustable

Support de montage réglable

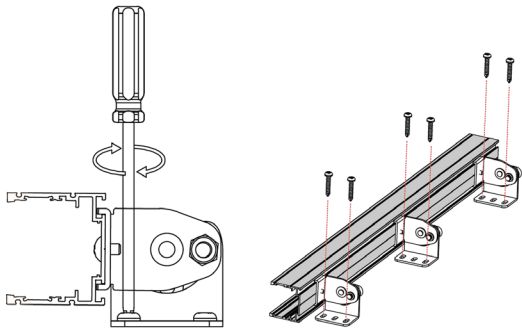
Step 1: Use screws to fasten the brackets on the track. Two (2) to three (3) brackets are recommended for every 39" (1 m) of track.



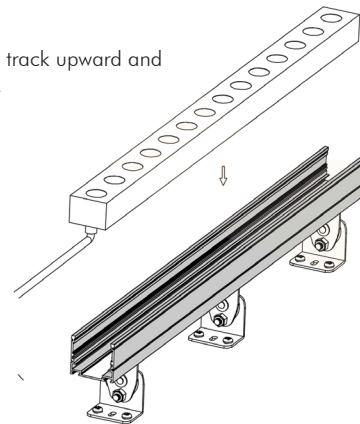
Step 2: Rotate the track to one side and mark out the holes.



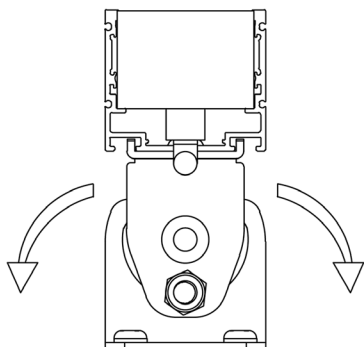
Step 3: Fasten the brackets with self-tapping screws.



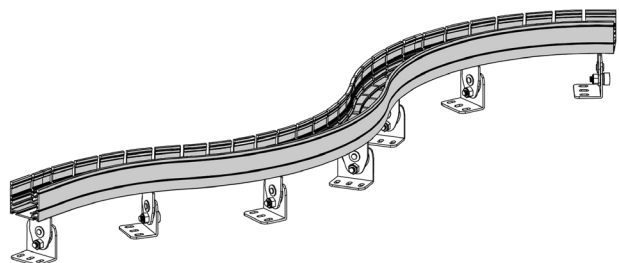
Step 4: Rotate the track upward and install the 3D Flex.



Step 5: Turn the Flex / Track to your preferred angle of illumination.



Note: The adjustable mounting bracket can be equipped with bendable track but the rotation angle will be limited



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3D Flex Unboxing

Desempaquetado de 3D Flex

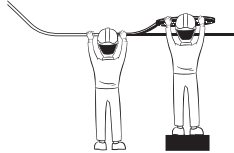
Déballage du 3D Flex

Step 1: Inspect Packaging Before Opening.

- Check for visible shipping damage.
- If damaged, photograph the package before opening and report immediately.

Step 3: Installation

- Hold the strip with two hands when moving.
- Do not install the 3D Flex into the mounting channel without assistance, and never bend the strip beyond its specified limits.
- **We Recommend using two people to install the fixture.**

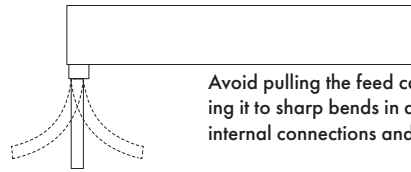


Step 2: Open Packaging and Remove Fixture Carefully

- Use a safety knife or scissors to cut tape, avoiding deep cuts that could damage the product inside.
- Do not use sharp tools near the 3D Flex LED surface.

Step 4: Feeder Cable Care

- The 3D Flex Graze feed cable must be handled with care to maintain integrity. Excessive bending, pulling, or stress at the cable entry point can compromise internal connections and degrade the IP-rated seal, resulting in potential failure of the luminaire.



Avoid pulling the feed cable away from the tube or subjecting it to sharp bends in any direction, as this can compromise internal connections and the sealing integrity

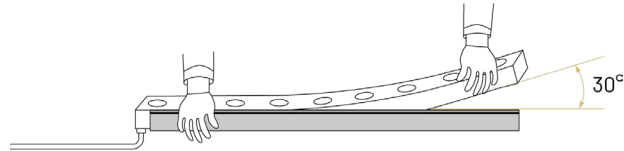
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3D Flex Installation

Instalación de 3D Flex

Installation 3D Flex

Step 1: When fitting the Flex ensure the angle between Flex and track does not exceed 30° to prevent damage to the PCB.

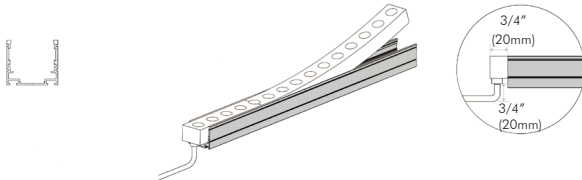


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Fixed & Bendable Mounting Track w/o Raceway

Instalación de 3D Flex en soportes de perfil fijo y flexible

Installation 3D Flex dans des supports de profilés fixes et pliables
When installing 3D Flex inside a fixed or bendable mounting track without a raceway, leave about 3/4" (20mm) outside of the end of the track.



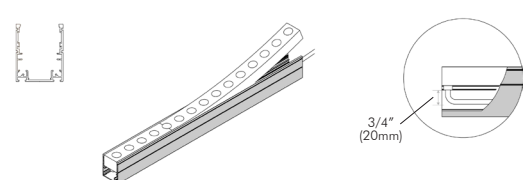
Ensure the Flex is not pulled or placed under extra force.

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Fixed & Bendable Mounting Track with Raceway

Instalación de 3D Flex en soportes fijos con perfil de canaleta

Installation 3D Flex en montage fixe avec supports profilés Raceway
When installing 3D Flex inside a mounting track with raceway the end can be aligned with the end of the track.



Ensure the Flex is not pulled or placed under extra force.

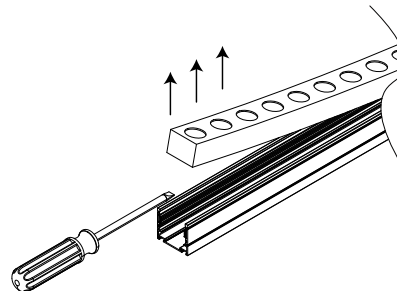
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Removing 3D Flex from Mounting Track

Cómo retirar el 3D Flex del riel de montaje

Retrait du 3D Flex du rail de montage

To remove the 3D Flex from the mounting track or bracket, gently insert a flat-head screwdriver between the bottom of the 3D Flex and the mounting surface, and carefully pry the fixture upward. Once the 3D Flex begins to lift out of the bracket, stop using the screwdriver and use your hands to pull the fixture out, maintaining approximately a 15° angle during removal.

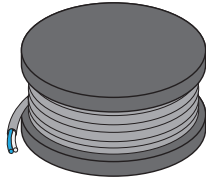


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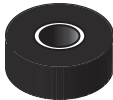
DMX Wiring - To ensure correct installation, the necessary items are required:

Cablería de DMX - Para garantizar una instalación correcta, se requieren los elementos necesarios:

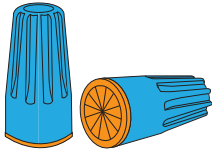
DMX Câblage - Pour garantir une installation correcte, les éléments nécessaires sont nécessaires:



RS-485 Shielded Cable



Electrical Tape
(By others)



Wire Nuts
(By others)



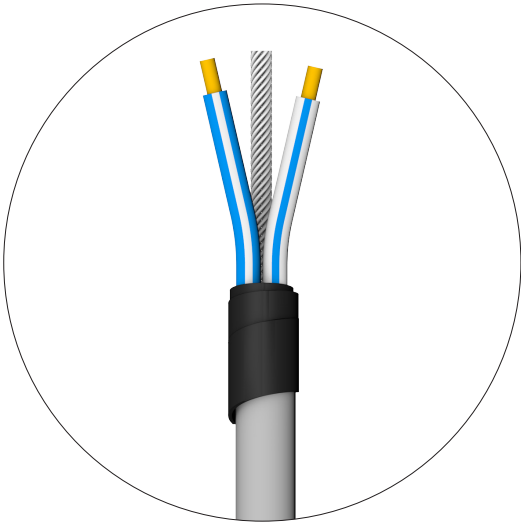
Data and Power must be run in separate conduit Data y Electricidad deben estar en conductos separados Les données et la puissance doivent être sur des conduits séparés	Must use RS-485 Cable for Data. Debe usar cable RS-485 para conexión de data. Doit utiliser le câble RS-485 pour la connexion de données.
Please make sure to install in accordance with the local and national code Por favor asegúrese de instalar de acuerdo con el código local S'il vous plaît assurez-vous d'installer conformément à la locale et code national!	Use electrical tape to cover any exposed wires. Lámparas debe ser programado por MODA antes de ser enviadas! Lampe doit être programmé par MODA avant qu'ils soient expédiés!



RS-485 Cable - Protect data integrity
Twist all stranded shield wire together into a tight linear shape and cover with hot solder. Ensure the shield is one solid piece and make sure no wires are loose that can possibly come into contact with any metal or other objects. Use electrical tape to cover/secure any exposed wires.

Cable RS-485 - Proteja la integridad de los datos
Tuerza todo el cable de blindaje trenzado en una forma lineal apretada y cubra con soldadura caliente. Asegúrese de que el escudo sea una pieza sólida y asegúrese de que no haya cables sueltos que puedan entrar en contacto con metal u otros objetos. Use cinta aislante para cubrir / asegurar cualquier cable expuesto.

Câble RS-485 - Protégez l'intégrité des données
Tordez tous les câbles blindés en une forme linéaire étanche et recouvrez-les d'une soudure à chaud. Assurez-vous que le blindage est un morceau solide et assurez-vous qu'aucun câble ne soit détaché et susceptible d'entrer en contact avec du métal ou d'autres objets. Utilisez du ruban isolant pour couvrir / sécuriser les fils exposés.



Shielded RS-485	
	DMX Positive
	DMX Negative
	DMX Ground

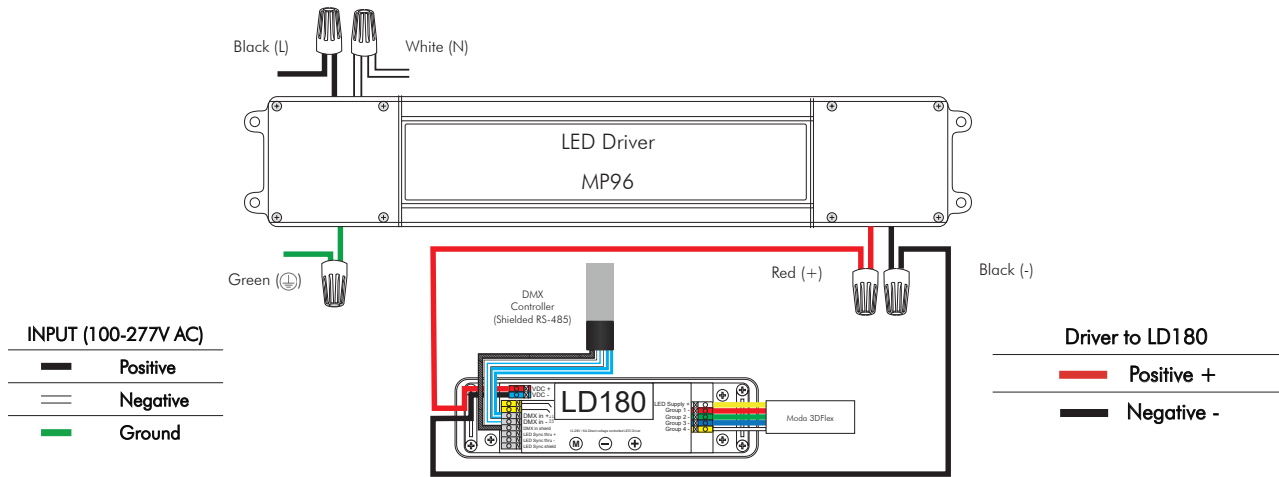
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Install 24V Driver and LD180 in a wet location enclosure - by others

Instalar el controlador de 24 V y el LD180 en un recinto húmedo (por otros)

Installer un pilote 24 V et un LD180 dans un boîtier pour emplacement humide - par d'autres

Wet location enclosure and wet location wire nuts (By others)



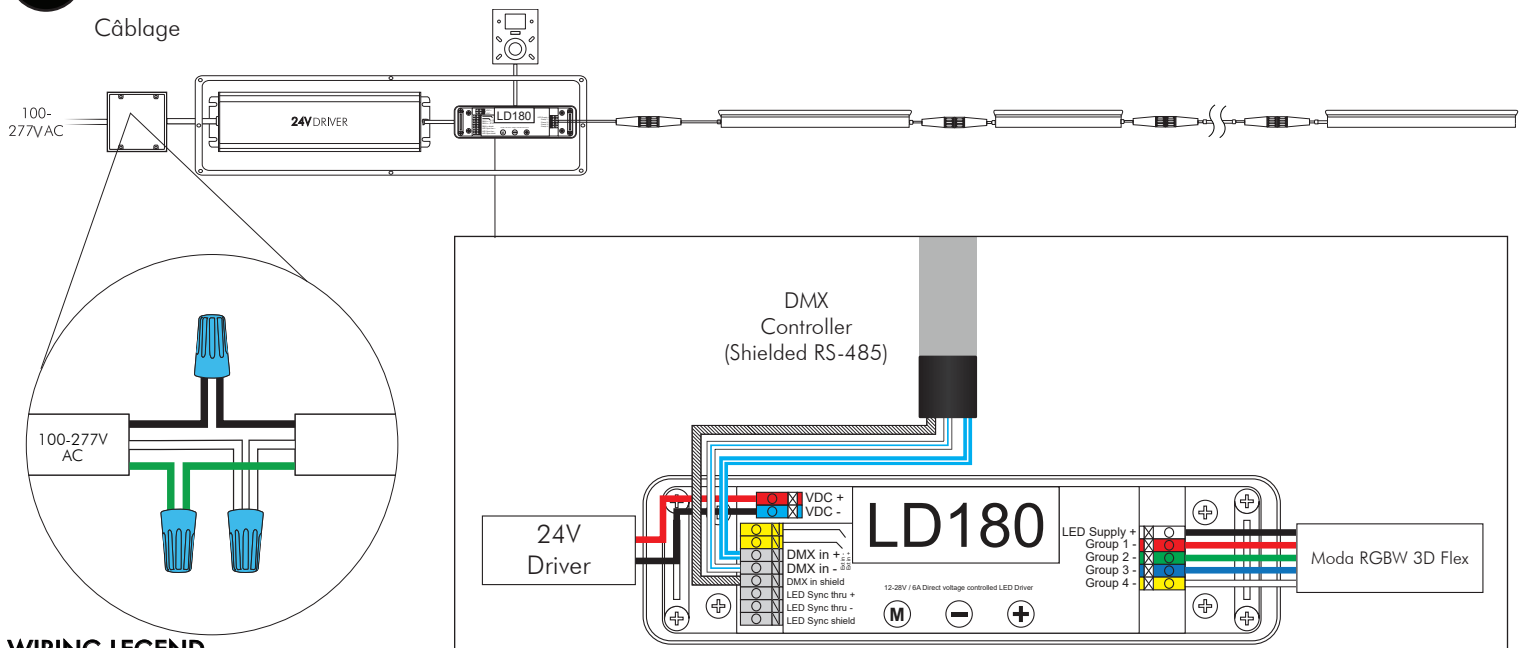
Enclosure must be 1.5 times the volume of the Driver to allow for proper air circulation.
El recinto debe ser 1.5 veces el volumen del Driver para permitir una circulación de aire adecuada.
L'enceinte doit être 1,5 fois plus volumineuse Driver pour permettre une bonne circulation de l'air.

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Wiring

Alambrado

Câblage

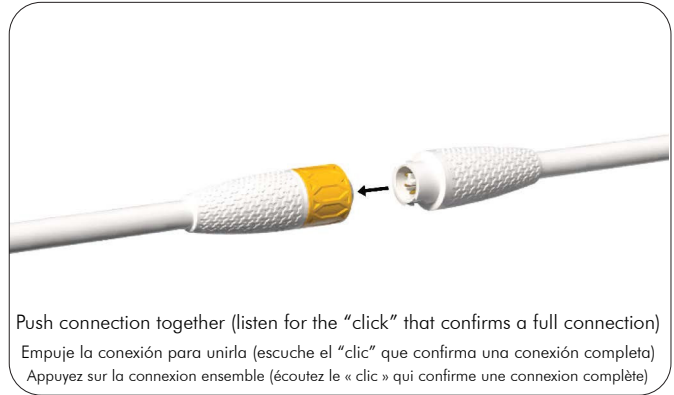
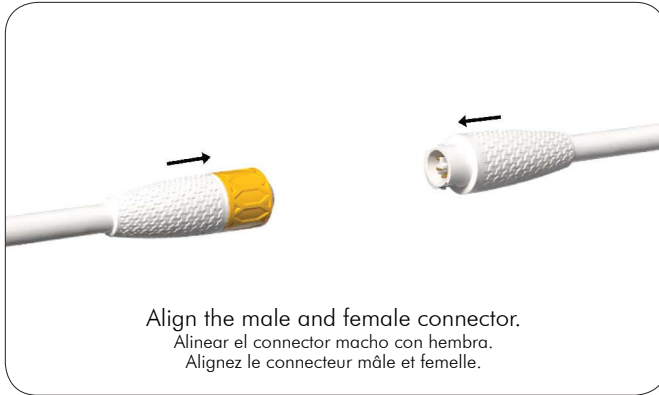


26

Connect leader cable

Conectar el cable líder

Connectez chef de fil

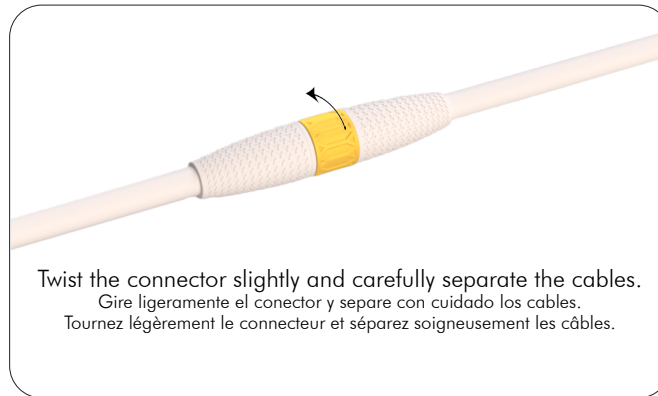


27

Disconnect Leader Cable

Desconecte el cable guía

Débrancher le câble principal

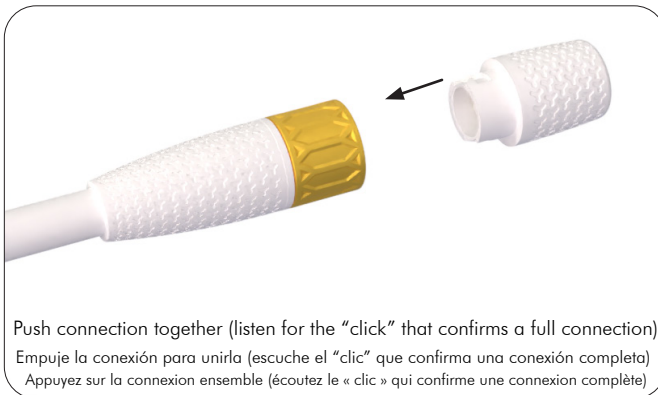


28

Connect Terminator

Conectar terminador

Connectez terminateur

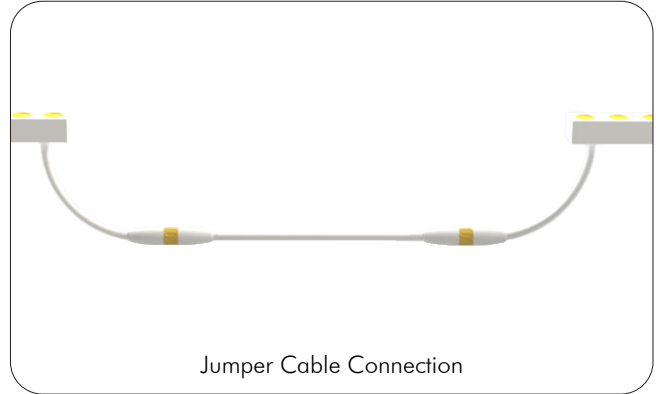
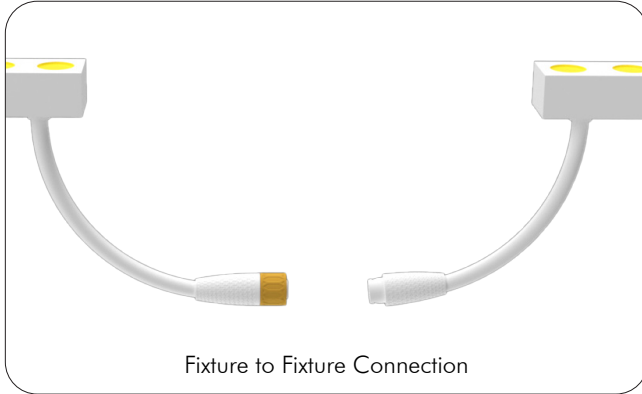


29

Available Connections

Conexiones disponibles

Connexions disponibles

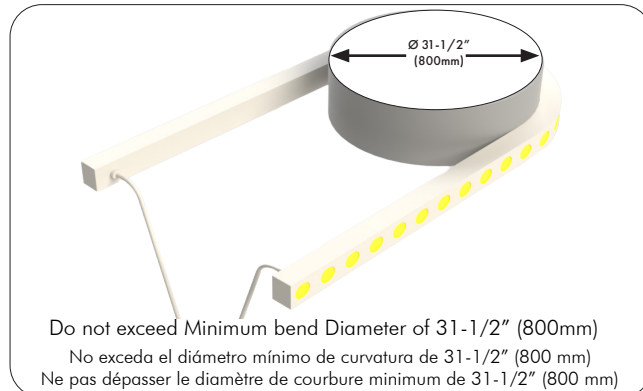
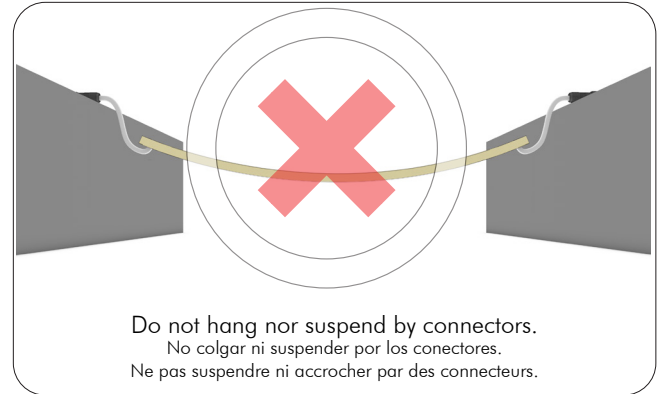
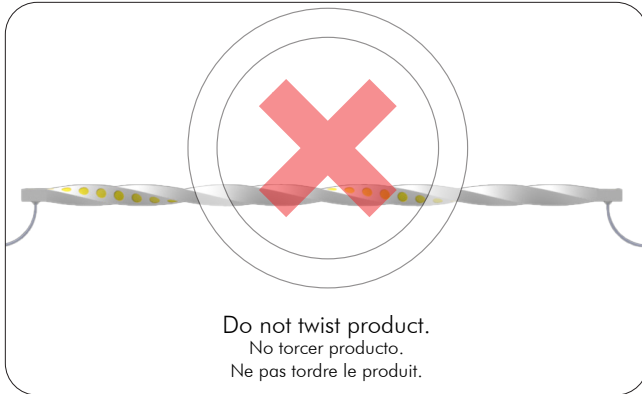


30

WARNINGS!

ADVERTENCIAS!

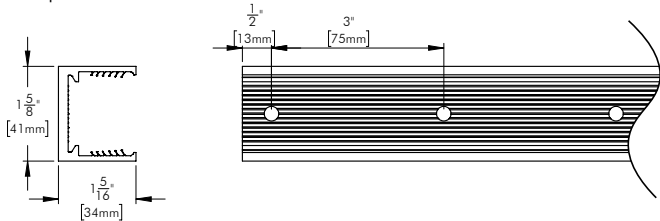
AVERTISSEMENTS!



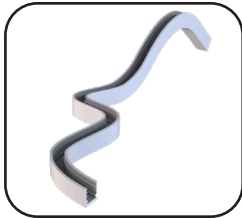
31

3D Bendable Track

Pista flexible 3D
Piste pliable 3D



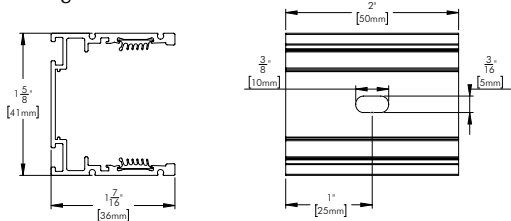
Bending Maximum		
Vertical Bending	Ø 15 3/4" (400mm)	
Horizontal Bending	Ø 31 1/2" (800mm)	
Length		
7 7/8" (200mm)	1ft 7 11/16" (500mm)	3ft 3 3/8" (1000mm)



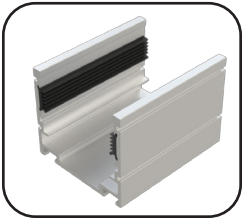
32

Fixed Mounting Bracket

Soporte de montaje fijo
Support de montage fixe



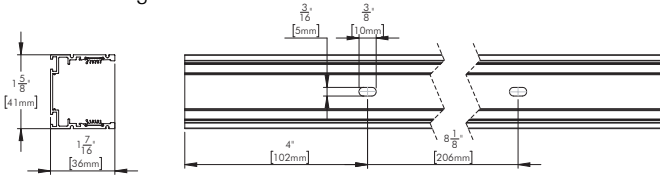
Length
2" (50mm)



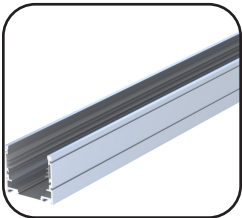
33

Fixed Mounting Track

Carril de montaje fijo sin canalización
Rail de montage fixe sans chemin de roulement



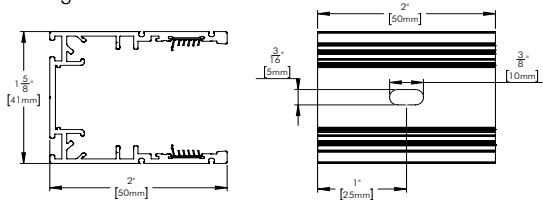
Length		
1ft 7 11/16" (500mm)	3ft 3 3/8" (1000mm)	6ft 6 3/4" (2000mm)



34

Fixed Mounting Bracket with Raceway

Soporte de montaje fijo con canaleta
Support de montage fixe avec chemin de câbles



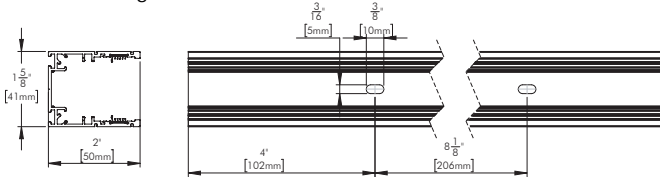
Length
2" (50mm)



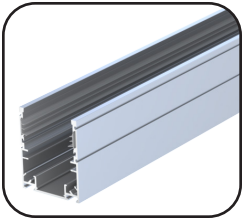
35

Fixed Mounting Track with Raceway

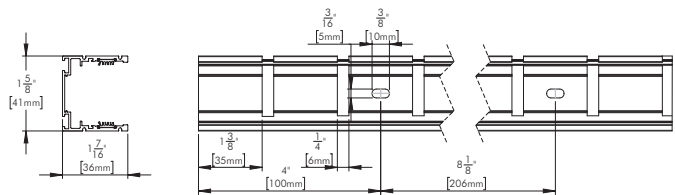
Carril de montaje fijo con canaleta
Rail de montage fixe avec chemin de roulement



Length		
1ft 7 11/16" (500mm)	3ft 3 3/8" (1000mm)	6ft 6 3/4" (2000mm)

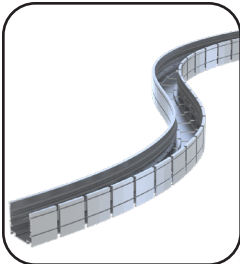
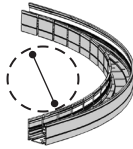


36 Bendable Track - Horizontal
Pista flexible - Horizontal
Rail pliable - Horizontal

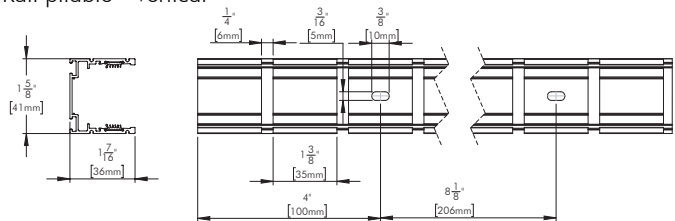


Length
3ft 3 3/8" (1000mm)

Horizontal Minimum Bend for Track:
Ø 47-1/4" (1200mm)

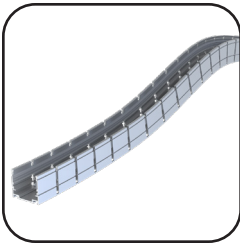


37 Bendable Track - Vertical
Pista flexible - Vertical
Rail pliable - Vertical

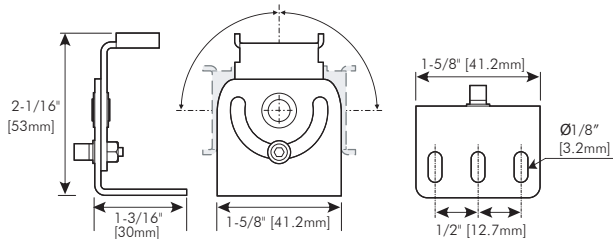


Length
3ft 3 3/8" (1000mm)

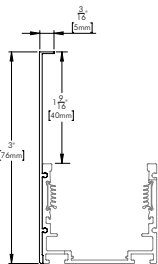
Vertical Minimum Bend for the Track:
Ø 78-3/4" (2000mm)



38 Optional Accessories - Adjustable Mounting Bracket
Accesorios opcionales - Soporte de montaje ajustable
Accessoires en option - Support de montage réglable



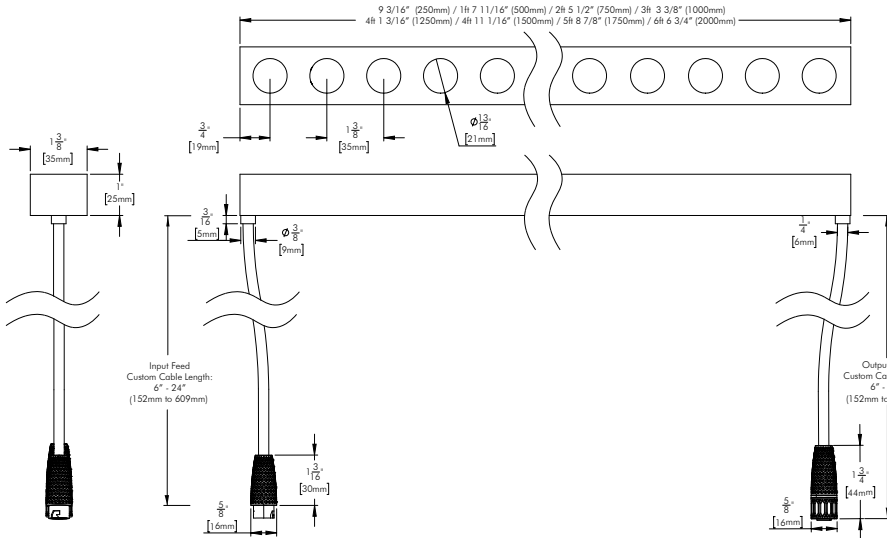
39 Optional Accessories - Glare Shield
Accesorios opcionales - Protector antideslumbrante
Accessoires en option - Écran anti-éblouissement



Note: Not Compatible with
Vertical Bending Track
More Information on installing
Glare Shield



40 3D Flex Graze and Wash
Iluminación de acento y de lavado 3D Flex
Éclairage d'accentuation et de lavage mural 3D Flex



LENGTHS /
WEIGHT

9 3/16" (250mm) 9.7oz (275g)	1h 7 11/16" (500mm) 19.4oz (550g)
2h 5 1/2" (750mm) 29.1oz (825g)	3h 3 3/8" (1000mm) 38.8oz (1100g)
4h 1 3/16" (1250mm) 48.5oz (1375g)	4h 11 1/16" (1500mm) 58.2oz (1650g)
5h 8 7/8" (1750mm) 67.9oz (1925g)	6h 6 3/4" (2000mm) 77.6oz (2200g)

SPECIFICATIONS

PHYSICAL

Applications	Facade Grazing, Stairwell & Corridor Grazing Highlighting Stone, Brick & Masonry, Accent Plaster or Stucco Walls, Curved or Freeform Walls, Columns, Niches & Recesses, Niche & Cove Lighting with Sculptural Intent, Highlight Sculptures & Reliefs, Wall Murals & Textured Art Installations, Way-finding & Guidance Lighting
Dimensions	Width: 1 3/8" (35mm) Height: 1" (25mm) Length: See Line Drawing
Weight	11.8oz (335g) / 1ft See Lengths and Weight Table
Case Finish	White or Black
Construction	Silicone
Thermal Management	Cool to Touch, Free Air Convection
Fixture Connections	Injection-moulded Leader and Jumper cables
Operating Temperature	-40°~131°F (-40~55°C)
Ambient Installation Temp	> -40°F (> -40°C)
Storage Temperature	-40°F ~ 140°F (-40°C ~ 60°C)
Environment	Wet Location - Exterior, Interior UV Protected
IP Rating	IP67
IK Rating	IK08

MODA 3D FLEX GRAZE

Beam Angle	20°x20°, 20°x30°, 20°x50°
CCT	Dynamic White (2700K to 6500K)
SDCM	2 Step MacAdam Ellipse
Lumen Maintenance	L70 - 50,000 Hours
Testing Data	LM79-19, LM-80-15

MODA 3D FLEX WASH

Beam Angle	30°x30°, 30°x60°
CCT	Dynamic White (2700K to 6500K)
SDCM	2 Step MacAdam Ellipse
Lumen Maintenance	L70 - 50,000 Hours
Testing Data	LM79-19, LM-80-15

MODA 3D FLEX WASH

Beam Angle	40°x40°
CCT	RGB / RGB3000K
SDCM	2 Step MacAdam Ellipse
Lumen Maintenance	L70 - 50,000 Hours
Testing Data	LM79-19, LM-80-15

DIMENSIONS AND WEIGHT

LENGTHS / WEIGHT	9 3/16" (250mm)	1 ft 7 11/16" (500mm)	2 ft 5 1/2" (750mm)	3 ft 3 8/8" (1000mm)
	9.7oz (275g)	19.4oz (550g)	29.1oz (825g)	38.8oz (1100g)
	4ft 1 3/16" (1250mm)	4ft 11 1/16" (1500mm)	5ft 8 7/8" (1750mm)	6ft 6 3/4" (2000mm)
	48.5oz (1375n)	58.2oz (1650n)	67.9oz (1925n)	77.6oz (2200n)

ELECTRICAL

Input Voltage	24V DC
Power Consumption	7.3W/ft (0.304A)
Control	Dependant on driver

MAX CONTINUOUS RUN

96W Driver	11 1/2ft (3500mm)
Fixture Connections	Limited to 5 fixture connections

STANDARDS & CERTIFICATIONS



Certification	Tested to UL 2108, Edition 2 & CSA C22.2 NO. 250.2, 1st Ed., for use in USA & Canada. RoHS Compliant.
Class	2
Warranty	3 Year Limited Warranty

 Do not attempt to install or use the product until installation is fully read and understood

No intente instalar o utilizar el producto sin antes leer y comprender las instrucciones!

Ne tentez pas d'installer ou d'utiliser le produit jusqu'à ce que l'installation est entièrement lu et compris!

 Do not use the product if jacket or power cables are damaged.

No utilice el producto si la cobertura exterior o cables de energia están defectuosos!

Ne pas utiliser le produit si la veste ou les câbles d'alimentation sont endommagés!

 Only use current/voltage listed for product.

Utilice únicamente la corriente/voltaje indicados para el producto.

Utilisez uniquement le courant/la tension indiqué pour le produit.

 De-energized system before connecting or disconnecting product.

Desactive la energía del sistema antes de conectar o desconectar el producto.

Système hors tension avant de connecter ou de déconnecter le produit

 Maximum recommended driver-to-fixture distance is 5 ft. Moda-manufactured power leads up to 6 ft are tested and approved for use only as provided. Any additional extension, modification, or use of third-party cabling beyond this configuration is not recommended and will void the warranty.

La distancia máxima recomendada entre el controlador y la luminaria es de 1,5 metros (5 pies). Los cables de alimentación fabricados por Moda, de hasta 1,8 metros (6 pies), están probados y aprobados para su uso únicamente en las condiciones especificadas. No se recomienda ninguna extensión, modificación o uso de cables de terceros que excedan esta configuración, ya que anulará la garantía.

La distance maximale recommandée entre le transformateur et le luminaire est de 1,5 mètre (5 pieds). Les câbles d'alimentation fabriqués par Moda, d'une longueur maximale de 1,8 mètre (6 pieds), sont testés et homologués pour une utilisation conforme aux instructions. Toute rallonge, modification ou utilisation de câbles tiers au-delà de cette configuration est déconseillée et annulera la garantie.

 Do not bend product beyond the maximum bend diameter listed on the installation guide.

No doble el producto más allá del diámetro de curvatura máximo indicado en la guía de instalación.

Ne pliez pas le produit au-delà du diamètre de courbure maximal indiqué dans le guide d'installation.

 Ensure all connections are fully seated and perform a pull test before powering on to prevent electrical arcing.

Asegúrese de que todas las conexiones estén completamente asentadas y realice una prueba de tracción antes de encender para evitar un arco eléctrico. Assurez-vous que toutes les connexions sont bien en place et effectuez un test de traction avant la mise sous tension pour éviter les arcs électriques.

 Do not coat the product in paint. This will ruin the product and void warranty.

No cubra el producto en pintura! Esto va a arruinar el producto y anular la garantía.

Ne pas enduire le produit dans la peinture! Cela va ruiner le produit et annuler la garantie!

 Please make sure to install in accordance with the local code.

Por favor asegúrese de instalar de acuerdo con el código local.

Faire S'il vous plaît veillez à installer en conformité avec le code local.

 Do not cut or modify the product.

No corte ni modifique el producto.

Ne pas couper ni modifier le produit.

 Do not stare into beam.

No mire fijamente la luz.

Ne pas regarder le faisceau.

 Use only compatible Moda Light drivers.

Utilice únicamente controladores Moda Light compatibles.

Utilisez uniquement des pilotes Moda Light compatibles.

 Do not stand on product during installation.

No se pare sobre el producto durante la instalación.

Ne pas se tenir debout sur le produit pendant l'installation.

 Do not exceed maximum run length specified for multiple pieces wired in line.

No exceda la longitud máxima especificada para piezas múltiples cableadas en línea.

Ne pas dépasser la longueur maximale spécifiée pour plusieurs pièces câblées en ligne.