

### Underwater IP68

Cougar 12W/m Flexión Horizontal - Horizontal Bend

# CO12 H

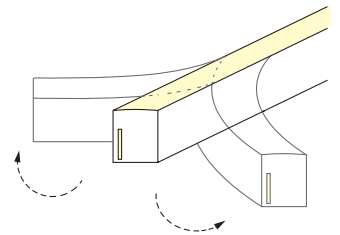
Sistema de iluminación lineal LED para uso interior o exterior. Con recubrimiento de silicona especial de transmisión térmica que cubre todo el circuito impreso y sus componentes. Uniformidad de la luz perfecta. Es capaz de soportar cambios de temperatura y lluvia.

Linear LED lighting system for indoor or outdoor use. With special silicone, thermal transfer coating covering the entire printed circuit and components. Uniformity of the perfect light. It is able to withstand changes in temperature and rainfall.



<b>12</b> W/m	LED SMD <b>2835</b>	<b>108</b> LED/m	55,6mm	116°	r min 15cm
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Referencia Reference	CCT	Lumens /m	Lumens /W	Eficiencia energética Energy efficiency
CO12-22-HS	2200K	380	31	A
CO12-27-HS	2700K	470	39	A
CO12-30-HS	3000K	470	39	A
CO12-40-HS	4000K	480	40	A
CO12-57-HS	5700K	480	40	A

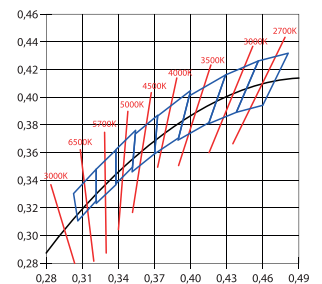


#### Características técnicas Technical data

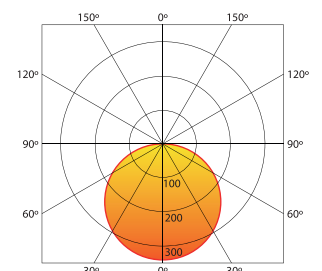
Potencia Power	12W/m
Longitud tira de LED LED strip length	A medida Custom
IP	68
CRI	>80
Voltaje Voltage	24V
Tipo de LED LED type	2835
LEDs/m	108
Ángulo Beam angle	116°
Longitud mín. corte Min. cutting length	55,6mm
Vida útil Life time	50.000h
Temperatura ambiente Ambient temperature	-40~55°C
Temperatura almacenamiento Storage temperature	-40~60°C
Años de garantía Warranty years	3
Regulable Dimmable	Sí Yes
Necesita disipador Needs heatsink	No
Longitud máx. Max. length	30m <sup>(1)</sup>

<sup>(1)</sup> Conectadas en serie Connected in series

#### 3 Pasos MacAdam 3 MacAdam steps



#### CDL



+55  
-40

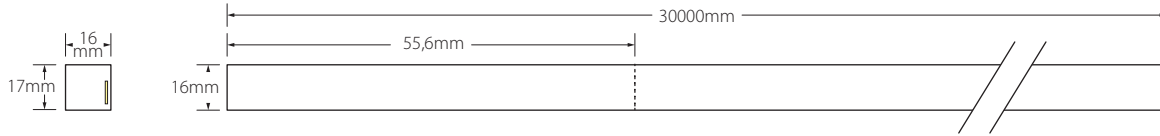
<b>3</b> Warranty Years	IP <b>68</b>	IK08	CRI <b>&gt;80</b>	<b>3</b> MacAdam STEPS	2 m max.	Custom		Si <sup>14</sup> SILICON 28.085	24V DC			+65°C -40°C	CE	RoHS
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Cougar 12W/m Flexión Horizontal - Horizontal Bend

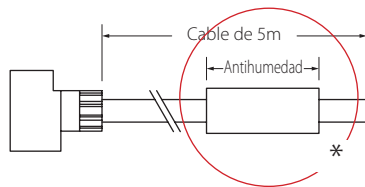
#### Medidas LED

LED dimensions



#### Conectores

Connectors



#### IP68

Conector IP68 para cable sumergible hasta 2m

\* *No cortar para conservar garantía del producto.*  
*No cutting to preserve product warranty.*

#### IP68

Doble sellado de silicona. Sumergido hasta 2m  
Silicone double sealed. Submerged until 2m

111211321S



111211322S



111211323S



111211324S



110211320S



3 Warranty Years	IP 68	IK08	CRI >80	3 MacAdam STEPS	2 m max.	Custom	Si <sup>14</sup> SILICON 28.085	24V DC	UV	Flame	+65°C -40°C	CE	RoHS
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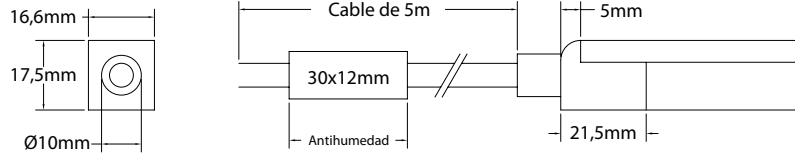
## Underwater IP68

### Cougar 12W/m Flexión Horizontal - Horizontal Bend

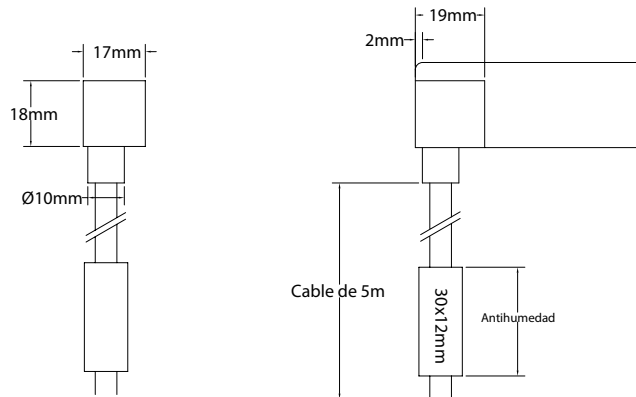
#### Medidas conectores

Connectors dimensions

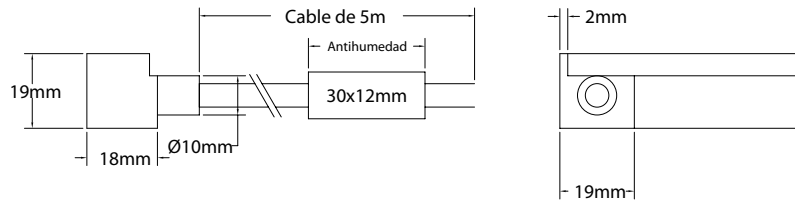
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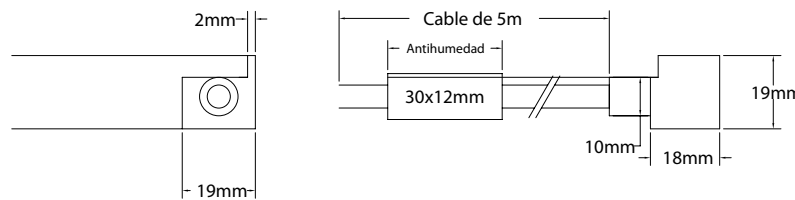
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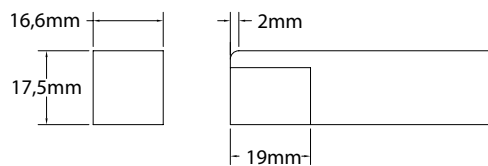
#### 111211323S



#### 111211324S



#### 110211320S



+55  
-40

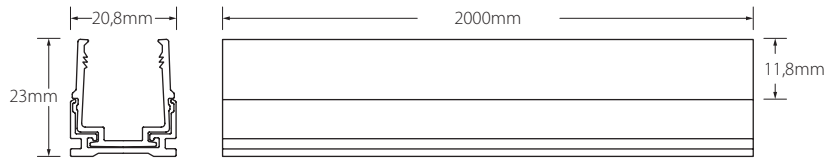
<b>3</b> Warranty Years	<b>IP</b> <b>68</b>	<b>IK08</b>	<b>CRI</b> <b>&gt;80</b>	<b>3</b> MacAdam STEPS	<b>2 m</b> max.	Custom		<b>Si<sup>14</sup></b> SILICON 28.085	<b>24V</b> DC			<b>+65°C</b> <b>-40°C</b>	<b>CE</b>	<b>RoHS</b>
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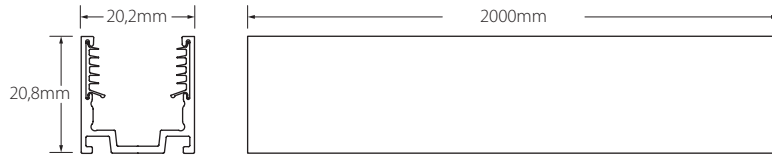
### Cougar 12W/m Flexión Horizontal - Horizontal Bend

**Accesorios**  
Accessories

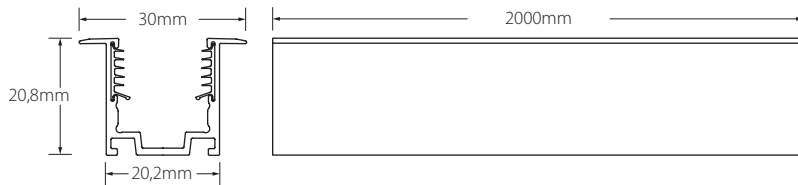
**1240302108**



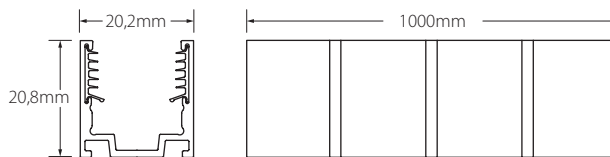
**1240302007**



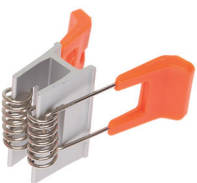
**1240303007**



**1240305007**



**12503070**



**234001070**



**235001070**



<b>1215202108</b>	35mm de corte del perfil 1240302108 35mm profile cut 1240302108
<b>1215202007</b>	20mm de corte del perfil 1240302007 20mm profile cut 1240302007
<b>12503070</b>	Grapa sujeción metálica Metal clamping piece
<b>234001070</b>	Clip sujeción metálico basculante Metal swing clamp
<b>235001070</b>	Soporte pared aluminio Aluminium wall bracket

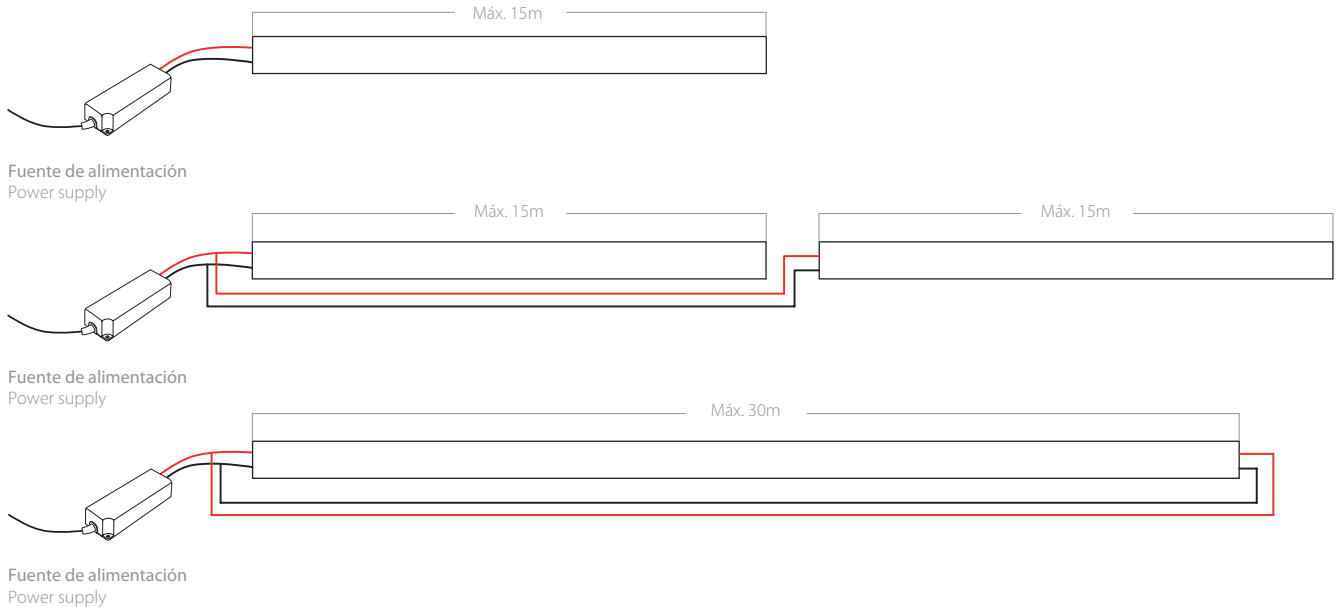
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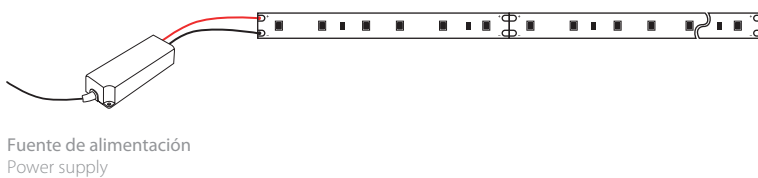
#### Cougar 12W/m Flexión Horizontal - Horizontal Bend

- Esquema de conexión**  
Circuit diagram

Respete las longitudes máximas para evitar caídas de tensión y variaciones en la intensidad lumínica.  
Respect the maximum lengths to avoid drops voltage and variations in light intensity.



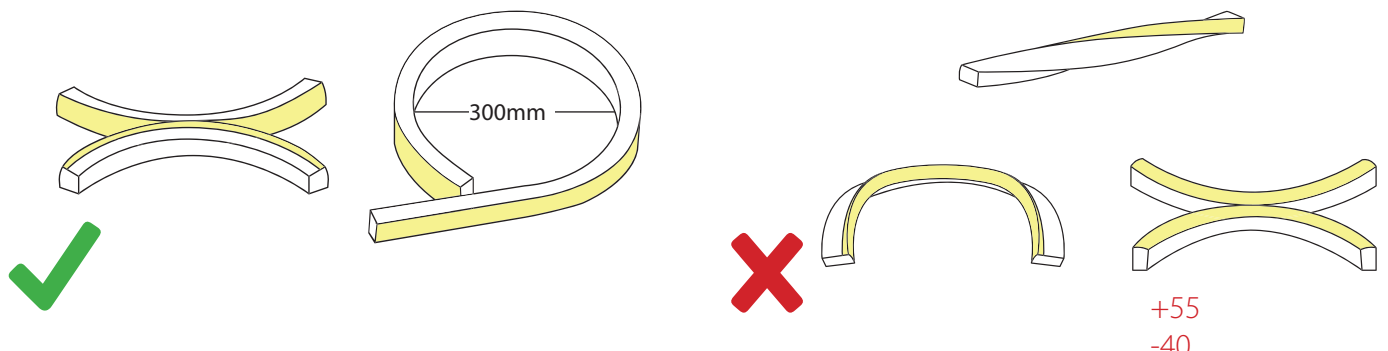
- Sección cable**  
Cable section



		Cable		
<b>Distancia</b> Distance		≤ 5m	< 15m	< 25m
<b>Sección</b> Section		0,5mm <sup>2</sup>	1,5mm <sup>2</sup>	2,5mm <sup>2</sup>

- Detalle de montaje**  
Assembly detail

Doble la tira de LED según las indicaciones y corte por la marca de corte.  
Fold the LED strip as shown and cut for the cut mark.



<b>3</b> Warranty Years	<b>IP</b> <b>68</b>	<b>IK08</b>	<b>CRI</b> <b>&gt;80</b>	<b>3</b> MacAdam STEPS	<b>2 m</b> max.	Custom		<b>Si</b> <sup>14</sup> SILICON 28.085	<b>24V</b> DC			 +65°C -40°C	<b>CE</b>	
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### Underwater IP68

#### Cougar 12W/m Flexión Horizontal - Horizontal Bend

- Vida útil**  
Life time

La vida útil de nuestros LEDs es de 50.000h a una temperatura ambiente de 23°C y provistos de un sistema de disipación de calor. Se recomiendan ciclos de apagado para alargar la vida de los LEDs.  
The life time of our LEDs is 50.000h at an ambient temperature of 23°C and provided with a heat dissipation system. Off cycles are recommended to extend the life of the LEDs.



#### Advertencias Warnings

- Antes de instalar el LED, recuerde que para ubicar la pieza antirrotura y pasar la pieza antihumedad por el hueco donde se aloja el cable, hay que dejar un diámetro superior a 12mm.
- Vigile al manipular los cables para evitar daños en las soldaduras.
- Comprobar el funcionamiento de la tira de LED antes de colocarla.
- Los picos de tensión pueden causar daños.
- En caso de eliminar la pieza antihumedad se perderá la garantía del producto.
- Before installing the LED strip, must be located the anti-breakage piece and pass the anti-wicking ferrule through the hole where the cable is located, the diameter must be up to 12mm.
- Caution when handling cables to avoid damage to the welds.
- Check the operation of the LED strip before placing it.
- The voltage surges can cause damage.
- If the damp-proof part is removed, the product warranty will be voided.

