

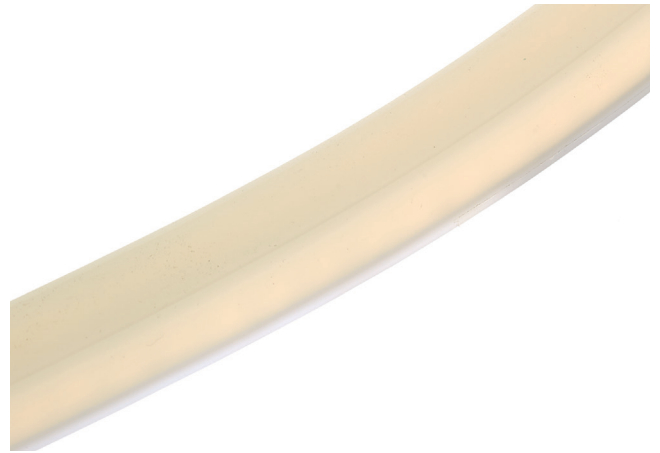
### Underwater IP68

Cougar 12W/m 3L Flexión Vertical - Vertical Bend

# CO12 3L

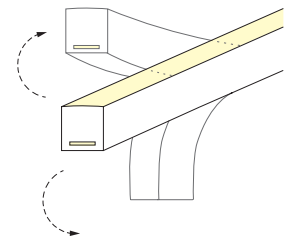
Sistema de iluminación lineal LED para uso interior o exterior. Con recubrimiento de silicona especial de transmisión térmica que cubre todo el circuito impreso y sus componentes. Uniformidad de la luz perfecta. Es capaz de soportar cambios de temperatura y lluvia.

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	272°	r min 15cm
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Referencia Reference	CCT	Lumens /m	Lumens /W	Eficiencia energética Energy efficiency
CO12-22-3LS	2200K	850	71	A
CO12-27-3LS	2700K	1050	88	A
CO12-30-3LS	3000K	1100	92	A
CO12-40-3LS	4000K	1100	92	A
CO12-57-3LS	5700K	1100	92	A

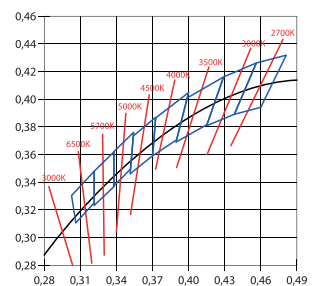


#### Características técnicas Technical data

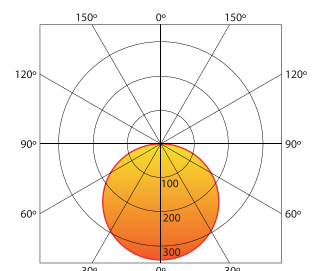
Potencia Power	12W/m
Longitud tira de LED LED strip length	A medida Custom
IP	68
CRI	>80
Voltaje Voltage	24V
Tipo de LED LED type	2835
LEDs/m	108
Ángulo Beam angle	272°
Longitud mín. corte Min. cutting length	55,6mm
Vida útil Life time	50.000h
Temperatura ambiente Ambient temperature	-40~55°C
Temperatura 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

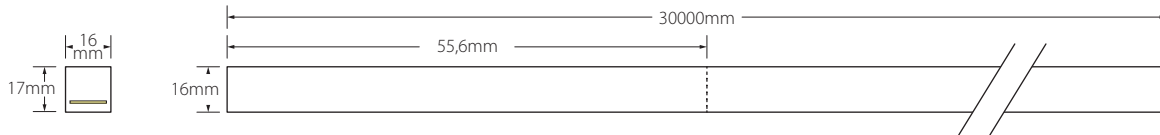


<b>3</b> Warranty Years	IP <b>68</b>	IK08	CRI <b>&gt;80</b>	<b>3</b> MacAdam STEPS	2 m max.	Custom		Si <sup>14</sup> SILICON 28.085	24V DC			+55 -40 +65°C -40°C	CE	RoHS
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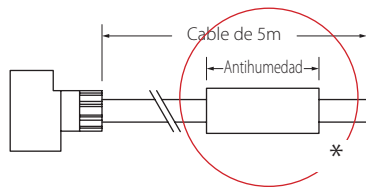
### Underwater IP68

Cougar 12W/m 3L Flexión Vertical - Vertical 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

111212321S



111212322S



111212323S



111212324S



110212320S



<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	UV	Si <sup>14</sup> SILICON 28.085	<b>24V</b> DC	UV	Flame	+65°C -40°C	CE	RoHS
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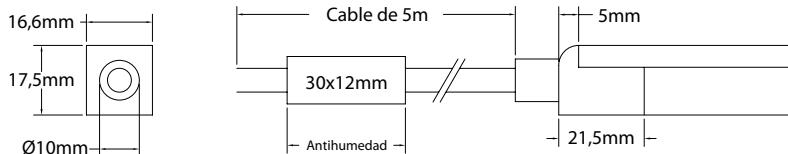
## Underwater IP68

### Cougar 12W/m 3L Flexión Vertical - Vertical Bend

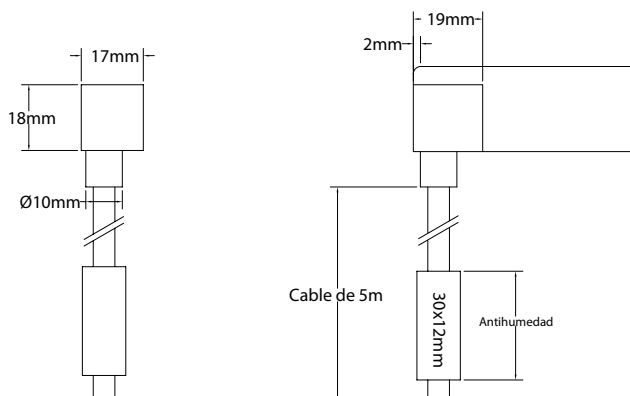
#### Medidas conectores

Connectors dimensions

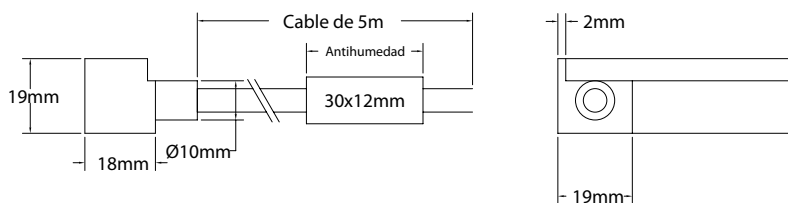
#### 111212321S



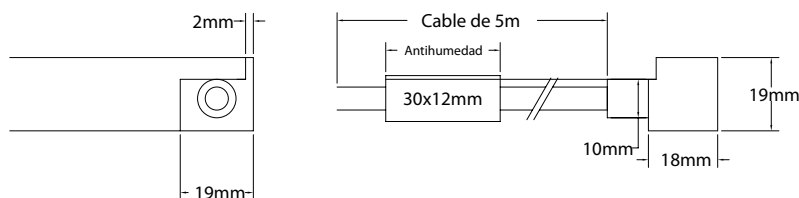
#### 111212322S



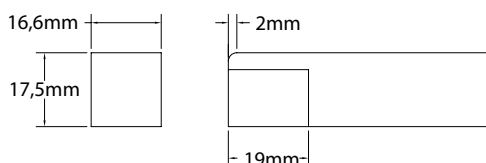
#### 111212323S



#### 111212324S



#### 110212320S



+55  
-40

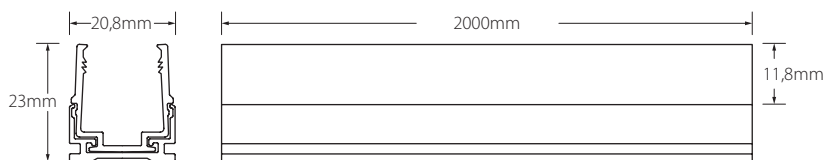


### Underwater IP68

### Cougar 12W/m 3L Flexión Vertical - Vertical Bend

**Accesorios**  
Accessories

**1240302108**



**234001070**



**235001070**



<b>1240302108</b>	2m perfil superficie de aluminio con laterales transparentes	2m aluminium surface profile with clear sides
<b>1215202108</b>	35mm de corte del perfil 1240302108	35mm profile cut 1240302108
<b>234001070</b>	Clip sujeción metálico basculante	Metal swing clamp
<b>235001070</b>	Soporte pared aluminio	Aluminium wall bracket

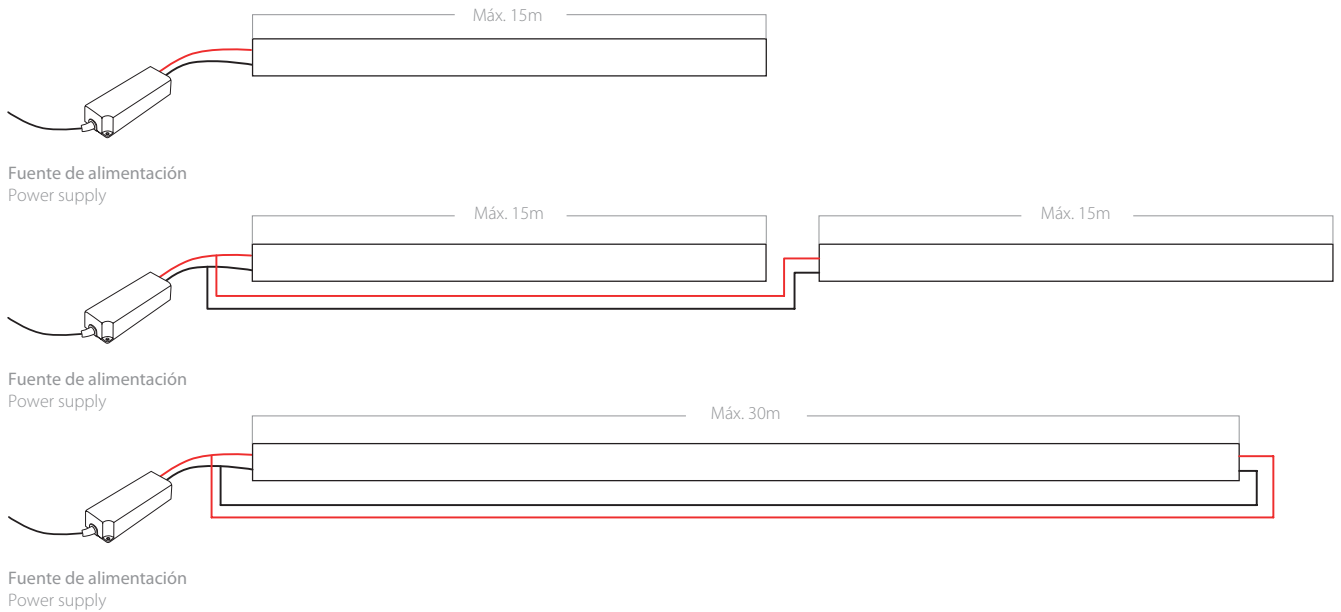
<b>3</b> Warranty Years	<b>IP</b> <b>68</b>	<b>IK08</b>	<b>CRI</b> <b>&gt;80</b>	<b>3</b> MacAdam STEPS	<b>2 m</b> max.	Custom		<b>Si</b> <sup>14</sup> SILICON 28.085	<b>24V</b> DC			<b>+55</b> <b>-40</b> °C	<b>CE</b>	<b>RoHS</b>
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## Underwater IP68

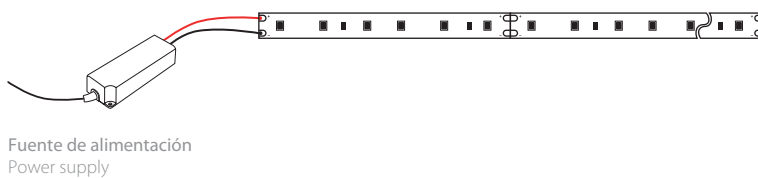
### Cougar 12W/m 3L Flexión Vertical - Vertical Bend

- 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.



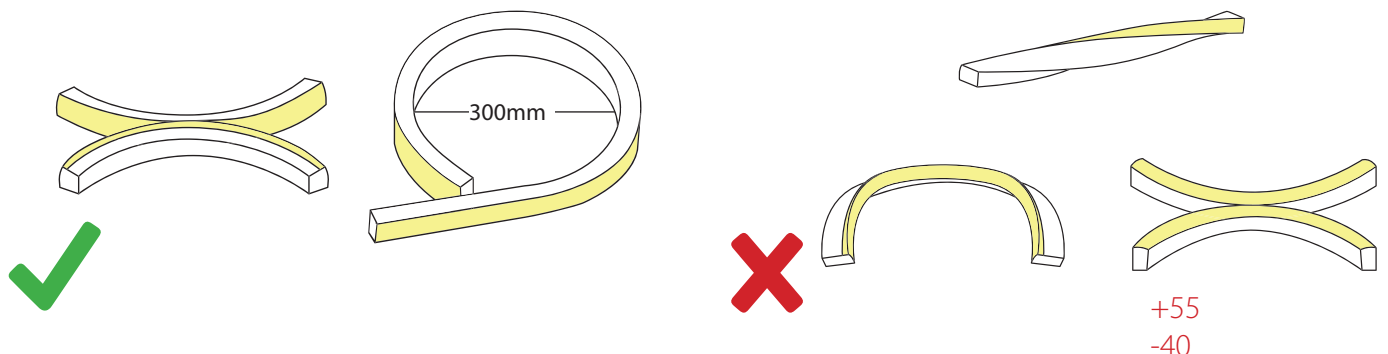
- Sección cable**  
Cable section



		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	Si <sup>14</sup> SILICON 28.085	<b>24V</b> DC	UV	Flame	+65°C -40°C	CE	RoHS
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### Underwater IP68

#### Cougar 12W/m 3L Flexión Vertical - Vertical 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.

