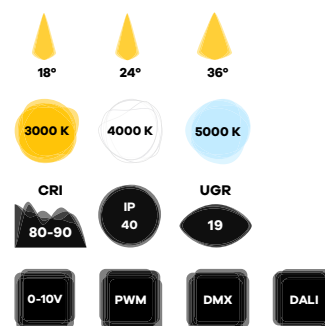




## AR111

Proyector orientable para carril electrificado  
Adjustable projector for electrified track

- Proyector eficiente
- Distintos acabados
- Disipación activa mediante SynJet®
- Efficient projector
- Different finishes
- Active dissipation through SynJet®





## DESCRIPCIÓN | DESCRIPTION

AR111 es un proyector orientable para carril electrificado diseñado y fabricado por SAKMA.

Utiliza como fuente de tecnología doce LED de alta luminosidad. Se comercializa en diferentes temperaturas de color, ópticas, flujo luminoso y CRI, pudiendo escoger el más adecuado para cada proyecto.

Incluye módulos opcionales de comunicación, como DALI o DMX, para regular la luminosidad. Incorpora un sistema de disipación activa mediante tecnología SynJet®.

Es una solución innovadora, duradera, creativa y ecológica para edificios, restaurantes, hoteles y tiendas de moda, entre otras aplicaciones.

AR111 is an adjustable projector for electrified track designed and manufactured by SAKMA.

It uses twelve high-brightness LED as a technology source. Available in different color temperatures, optics, luminous flux and CRI, being able to choose the most suitable for each project.

It includes optional communication modules, such as DALI or DMX, to regulate the brightness. It incorporates an active dissipation system using SynJet® technology.

It is an innovative, durable, creative and ecological solution for buildings, restaurants, hotels and fashion stores, among other applications.

## CARACTERÍSTICAS TÉCNICAS | TECHNICAL SPECIFICATIONS

| Referencia<br>Reference | Voltaje<br>Voltage<br>V DC | Potencia<br>Power<br>W | Temp. color<br>Color temp.<br>K | CRI | Flujo<br>Flux<br>lm | Eficiencia<br>Efficiency<br>lm/W | Ángulo<br>Beam<br>° | Cantidad<br>Number<br>LED | Regulación<br>Dimmer        |
|-------------------------|----------------------------|------------------------|---------------------------------|-----|---------------------|----------------------------------|---------------------|---------------------------|-----------------------------|
| LQA-27x-NNN-NxB-EGH     | 24 ~ 30                    | 25                     | 2700                            | >80 | 1650                | 66                               | 18<br>24<br>36      | 12                        | 0-10V<br>PWM<br>DMX<br>DALI |
| LQA-30x-NNN-NxB-EGH     |                            |                        | 3000                            |     | 1710                | 68                               |                     |                           |                             |
| LQA-40x-NNN-NxB-EGH     |                            |                        | 4000                            |     | 1850                | 74                               |                     |                           |                             |
| LQA-27x-NNN-NxB-EEH     |                            |                        | 2700                            | >90 | 1275                | 51                               |                     |                           |                             |
| LQA-30x-NNN-NxB-EEH     |                            |                        | 3000                            |     | 1390                | 56                               |                     |                           |                             |
| LQA-40x-NNN-NxB-EEH     |                            |                        | 4000                            |     | 1450                | 58                               |                     |                           |                             |

## CARACTERÍSTICAS FÍSICAS | PHYSICAL SPECIFICATIONS

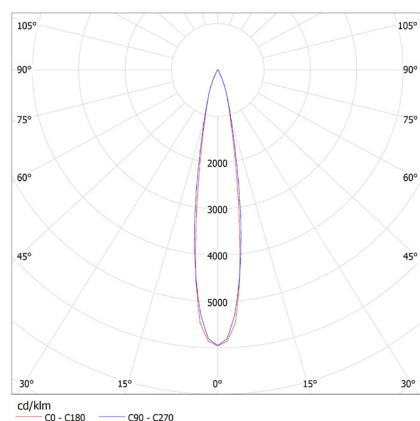
| Referencia<br>Reference | Orientación<br>Orientation<br>° | Temp. trabajo<br>Work temp.<br>°C | Temp. stock<br>Stock temp.<br>°C | Dimensiones<br>Dimensions<br>mm | Peso<br>Weight<br>Kg |
|-------------------------|---------------------------------|-----------------------------------|----------------------------------|---------------------------------|----------------------|
| LFG-                    | 0 ~ 30                          | -20 ~ +35                         | -30 ~ +60                        | 82x115Ø                         | 0,5                  |

| Referencia<br>Reference | Protección<br>Protection | Disipación<br>Disipation | Radiador<br>Radiator                     | Acabado<br>Finish                                  |
|-------------------------|--------------------------|--------------------------|------------------------------------------|----------------------------------------------------|
| LFG-                    | IP40                     | Activa<br>Active         | Aluminio anodizado<br>Anodized aluminium | Negro y opción de color<br>Black and colour option |

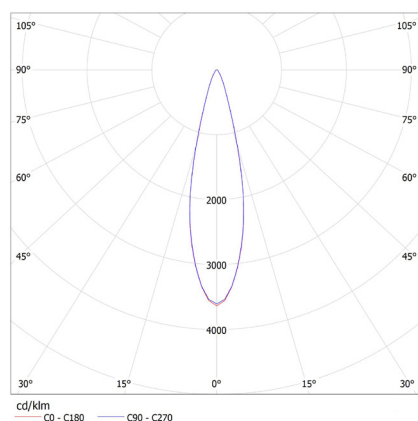
Otras temperaturas de color y CRI bajo pedido | Different colour temperatures and CRI under request

## FOTOMETRÍA | PHOTOMETRY

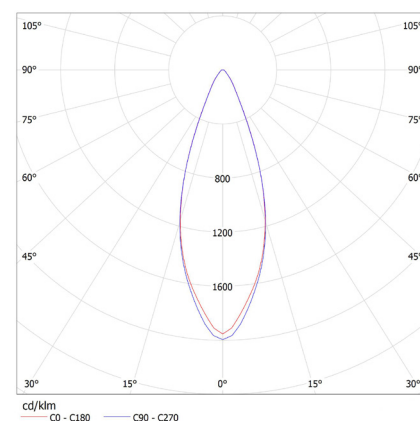
18°



24°

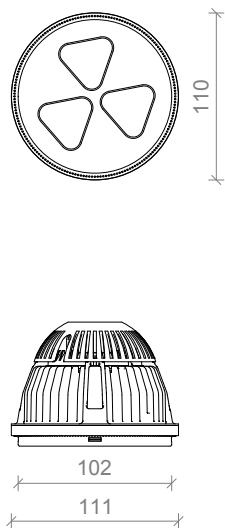


36°

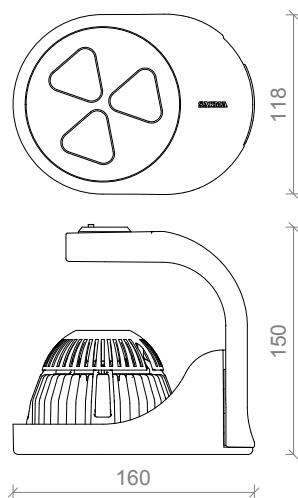


## DIMENSIONES | DIMENSIONS mm

Luminaria | Luminaire



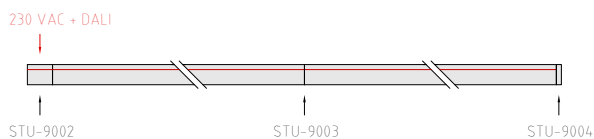
Luminaria + Brazo sujeción | Luminaire + Bracket



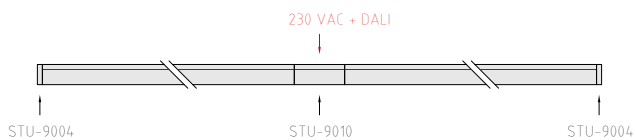
## ESQUEMA MONTAJE | ASSEMBLY DIAGRAM

Ejemplo | Example 1

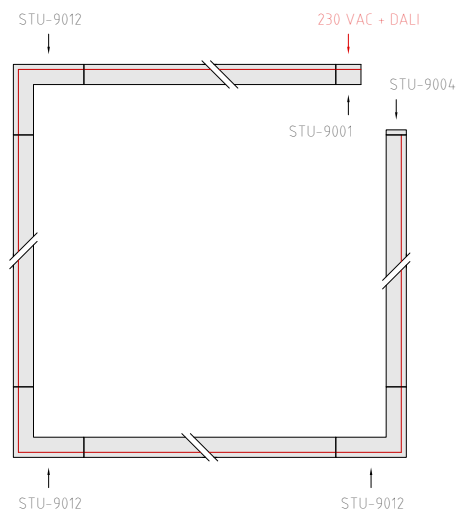
Vista superior  
Top view



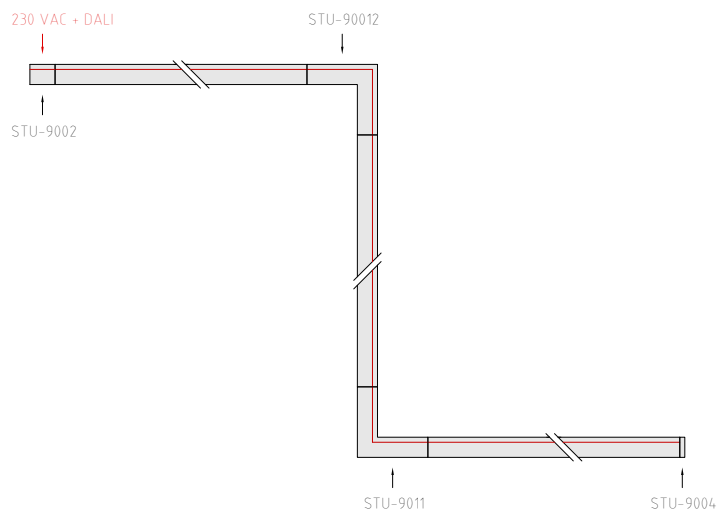
Ejemplo | Example 2



Ejemplo | Example 3

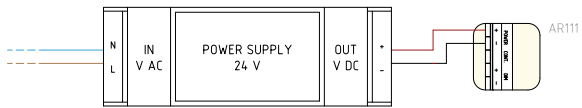


Ejemplo | Example 4

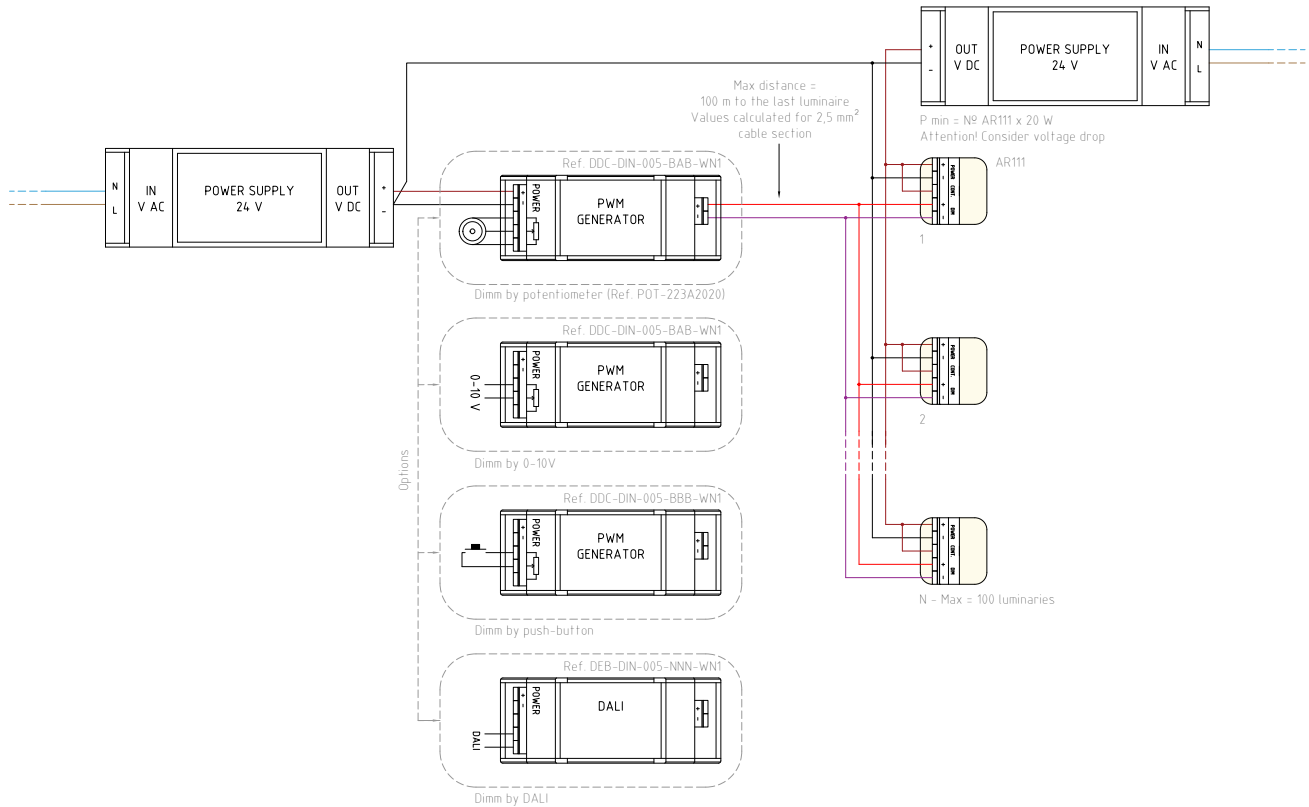


## CONEXIONES | CONNECTIONS

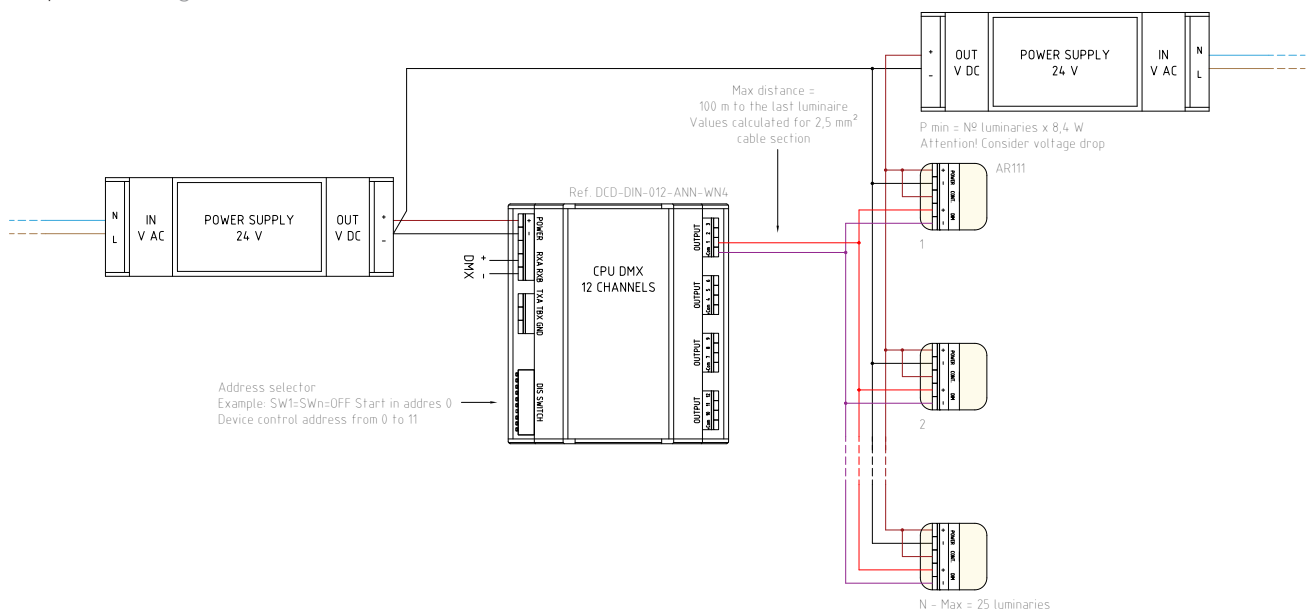
## Esquema | Diagram ON/OFF



Esquema | Diagram O-10V - PWM - DALI



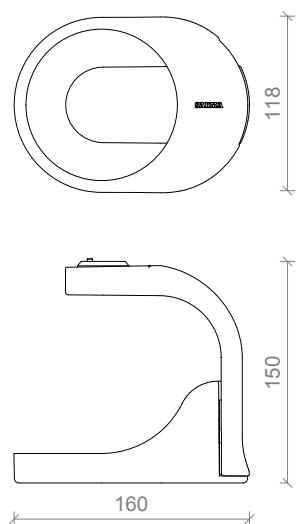
## Esquema | Diagram DMX



## ACCESORIOS | ACCESSORIES

## ACABADOS | FINISHES

### Soportes | Brackets



SA1

### Rojo | Red



### Naranja | Orange



### Amarillo | Yellow



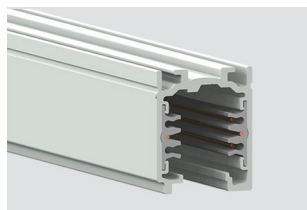
### Verde | Green



### Azul | Blue



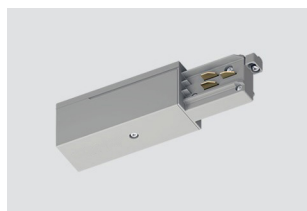
### Carril electrificado | Electrified track



C1



T1



A2



A1



S2



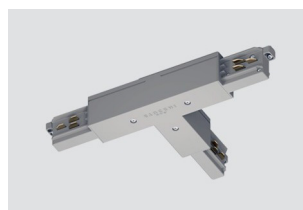
S1



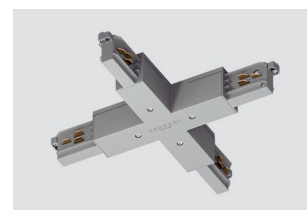
U1



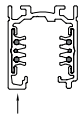
U2



U3



U4

| Artículo<br>Item                        | Imagen<br>Image | Referencia<br>Reference | Descripción<br>Description                                                             | Esquema (vista superior)<br>Diagram (top view)                                                                                                                        |
|-----------------------------------------|-----------------|-------------------------|----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Carril<br>Track                         | C1              | STU-9000-2/W-ST         | Carril electrificado 2000 mm, blanco<br>Conductors track 2000 mm, white                | Sección carril<br>Section track<br><br>Línea roja referencia<br>Reference red line |
|                                         |                 | STU-9000-4/W-ST         | Carril electrificado 4000 mm, blanco<br>Conductors track 4000 mm, white                |                                                                                                                                                                       |
|                                         |                 | STU-9000-2/B-ST         | Carril electrificado 2000 mm, negro<br>Conductors track 2000 mm, black                 |                                                                                                                                                                       |
|                                         |                 | STU-9000-4/B-ST         | Carril electrificado 4000 mm, negro<br>Conductors track 2000 mm, black                 |                                                                                                                                                                       |
| Tapa<br>End cap                         | T1              | STU-9004/W              | Tapa final para carril, blanco<br>End cap for conductors track, white                  |                                                                                                                                                                       |
|                                         |                 | STU-9004/B              | Tapa final para carril, negro<br>End cap for conductors track, black                   |                                                                                                                                                                       |
| Fijación techo<br>Ceiling clamp         | S1              | STU-9000/111            | Fijación techo superficie<br>Fixing surface ceiling                                    |                                                                                                                                                                       |
|                                         | S2              | STU-9000-KIT-8          | Fijación techo suspendido<br>Fixed suspended ceiling                                   |                                                                                                                                                                       |
| Alimentador extremo<br>End-feed         | A1              | STU-9001/W              | Alimentador extremo polaridad derecha, blanco<br>End-feed right, white                 |                                                                                    |
|                                         |                 | STU-9001/B              | Alimentador extremo polaridad derecha, negro<br>End-feed right, black                  |                                                                                                                                                                       |
|                                         |                 | STU-9002/W              | Alimentador extremo polaridad izquierda, blanco<br>End-feed left, white                |                                                                                    |
|                                         |                 | STU-9002/B              | Alimentador extremo polaridad izquierda, negro<br>End-feed left, black                 |                                                                                                                                                                       |
| Alimentador medio<br>Middle feet        | A2              | STU-9010/W              | Unión electrificada para carriles, blanco<br>Joining connector, white                  |                                                                                                                                                                       |
|                                         |                 | STU-9010/B              | Unión electrificada para carriles, negro<br>Joining connector, black                   |                                                                                                                                                                       |
| Connector de unión<br>Joining connector | U1              | STU-9003/W              | Toma de alimentación intermedia, blanco<br>Middle feed, white                          |                                                                                                                                                                       |
|                                         |                 | STU-9003/B              | Toma de alimentación intermedia, negro<br>Middle feed, black                           |                                                                                                                                                                       |
| Unión L<br>L-feet                       | U2              | STU-9011/W              | Unión L, Polaridad interna, blanco<br>L-feet, Internal polarity, white                 |                                                                                  |
|                                         |                 | STU-9011/B              | Unión L, Polaridad interna, negro<br>L-feet, Internal polarity, black                  |                                                                                                                                                                       |
|                                         |                 | STU-9012/W              | Unión L, Polaridad externa, blanco<br>L-feet, External polarity, white                 |                                                                                  |
|                                         |                 | STU-9012/B              | Unión L, Polaridad externa, negro<br>L-feet, External polarity, black                  |                                                                                                                                                                       |
| Unión T<br>T-feet                       | U3              | STU-9013/W              | Unión T, Polaridad externa-izquierda, blanco<br>T-feet, External-left polarity, white  |                                                                                  |
|                                         |                 | STU-9013/B              | Unión T, Polaridad externa-izquierda, negro<br>T-feet, External-left polarity, black   |                                                                                                                                                                       |
|                                         |                 | STU-9014/W              | Unión T, Polaridad externa-derecha, blanco<br>T-feet, External-right polarity, white   |                                                                                  |
|                                         |                 | STU-9014/B              | Unión T, Polaridad externa-derecha, negro<br>T-feet, External-right polarity, black    |                                                                                                                                                                       |
|                                         |                 | STU-9015/W              | Unión T, Polaridad interna-izquierda, blanco<br>T-feet, External-left polarity, white  |                                                                                  |
|                                         |                 | STU-9015/B              | Unión T, Polaridad interna-izquierda, negro<br>T-feet, External-left polarity, black   |                                                                                                                                                                       |
|                                         |                 | STU-9016/W              | Unión T, Polaridad interna-derecha, blanco<br>T-feet, External-right polarity, white   |                                                                                  |
|                                         |                 | STU-9016/B              | Unión T, Polaridad interna-derecha, negro<br>T-feet, External-right polarity, black    |                                                                                                                                                                       |
| Unión X<br>X-feet                       | U4              | STU-9017/W              | Unión X, blanco<br>X-feet, white                                                       |                                                                                  |
|                                         |                 | STU-9017/B              | Unión X, blanco<br>X-feet, white                                                       |                                                                                                                                                                       |
| Base<br>Base                            | B1              | STU-9000/BP-D-W         | Base fijación techo (sin carril), blanco<br>Ceiling fixing base (without track), white |                                                                                                                                                                       |
| Soporte<br>Brackets                     | SA1             | SOP-AR111-1             | Brazo para carril electrificado<br>Arm for electrified track                           |                                                                                                                                                                       |