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### SCON XTB106-XTD160-10W-3-NODIM

# SCON 48V LED Dual Spotlight Lamp Head User Manual

Model: XTB106-XTD160-10W-3-NODIM

## PRODUCT OVERVIEW

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The SCON 48V LED Dual Spotlight Lamp Head is designed for use with magnetic track lighting systems, offering versatile illumination for various indoor applications. This lamp head provides warm white light at 3000K with a 24° beam angle and a high color rendering index (Ra85), ensuring realistic color display. Its strong magnetic suction ensures stable and secure placement within the track system.



Image: SCON 48V LED Dual Spotlight Lamp Head, showing two black cylindrical lamp heads attached to a black magnetic track.

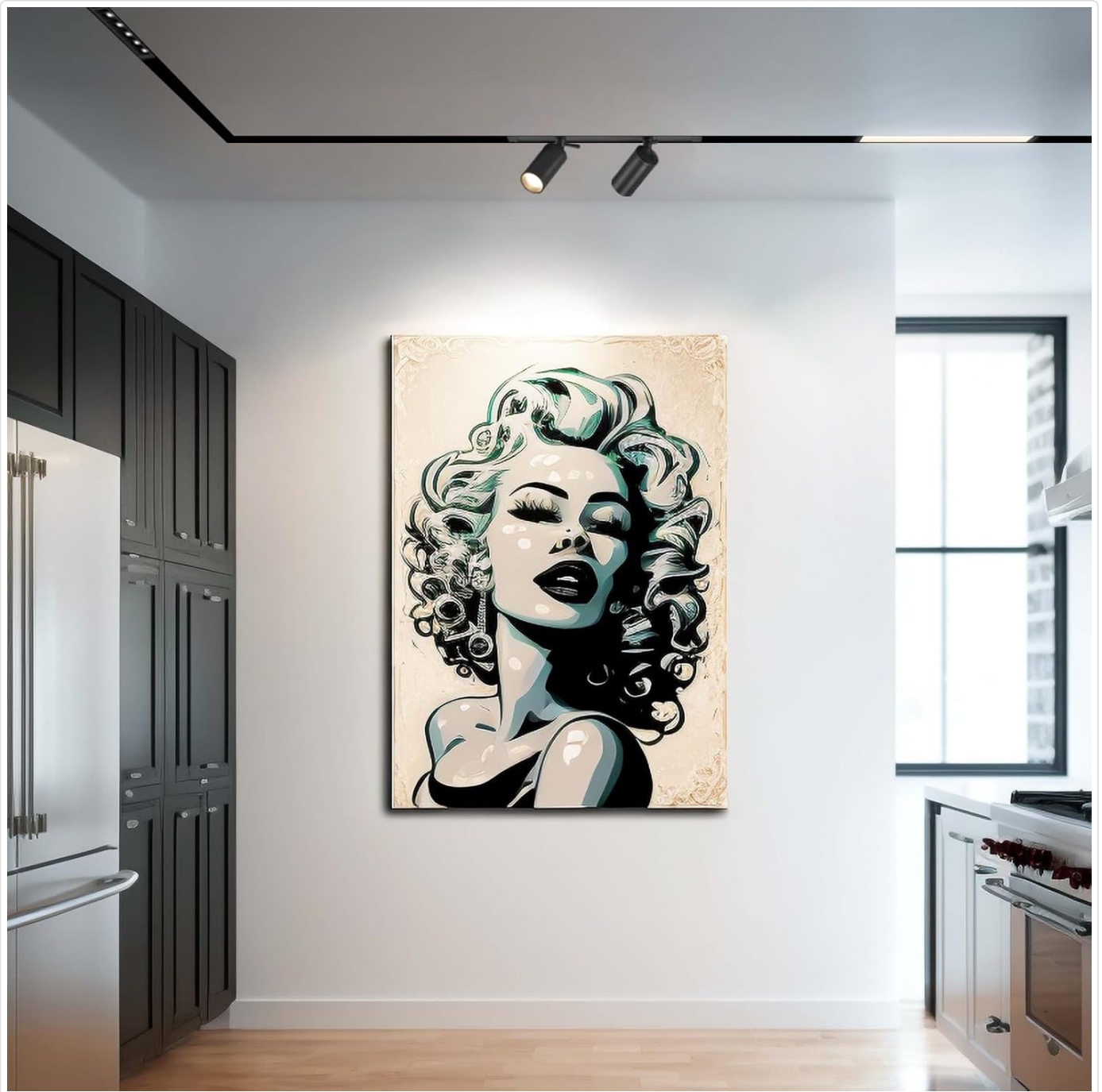


Image: SCON Dual Spotlight installed on a ceiling track in a modern kitchen, illuminating a piece of wall art.

## KEY FEATURES

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- **Dimming Capability:** Can be dimmed when connected with a compatible dimming driver (multi-CCT dimming not supported).
- **Versatile Driver Compatibility:**
  - Connect with 48V driver A and a normal switch for non-dimming operation.
  - Connect with 48V driver B and a TRIAC or 0-10V dimmer switch for dimming functionality.
  - Connect with 48V driver C and a DALI dimmer switch with DALI bus power for DALI dimming.
- **Strong Magnetic Suction:** Ensures stable and secure fixture placement.
- **High Quality Chip:** Provides high CRI (Color Rendering Index) for realistic object display.
- **Light Specifications:** 10W power, 3000K warm white color temperature, 24° beam angle, Ra85.
- **Material:** Constructed from durable Aluminum.

- **Dimensions:** Approximately 10.43 x 2.36 x 5.91 cm.

## SETUP AND INSTALLATION

The SCON Magnetic Track Lighting System requires three indispensable parts for operation: a Driver, a Track, and the Lamp Head. These components are typically purchased separately. Carefully refer to the wiring diagrams to select the correct components for your specific lighting needs and desired dimming method.

### System Components Overview

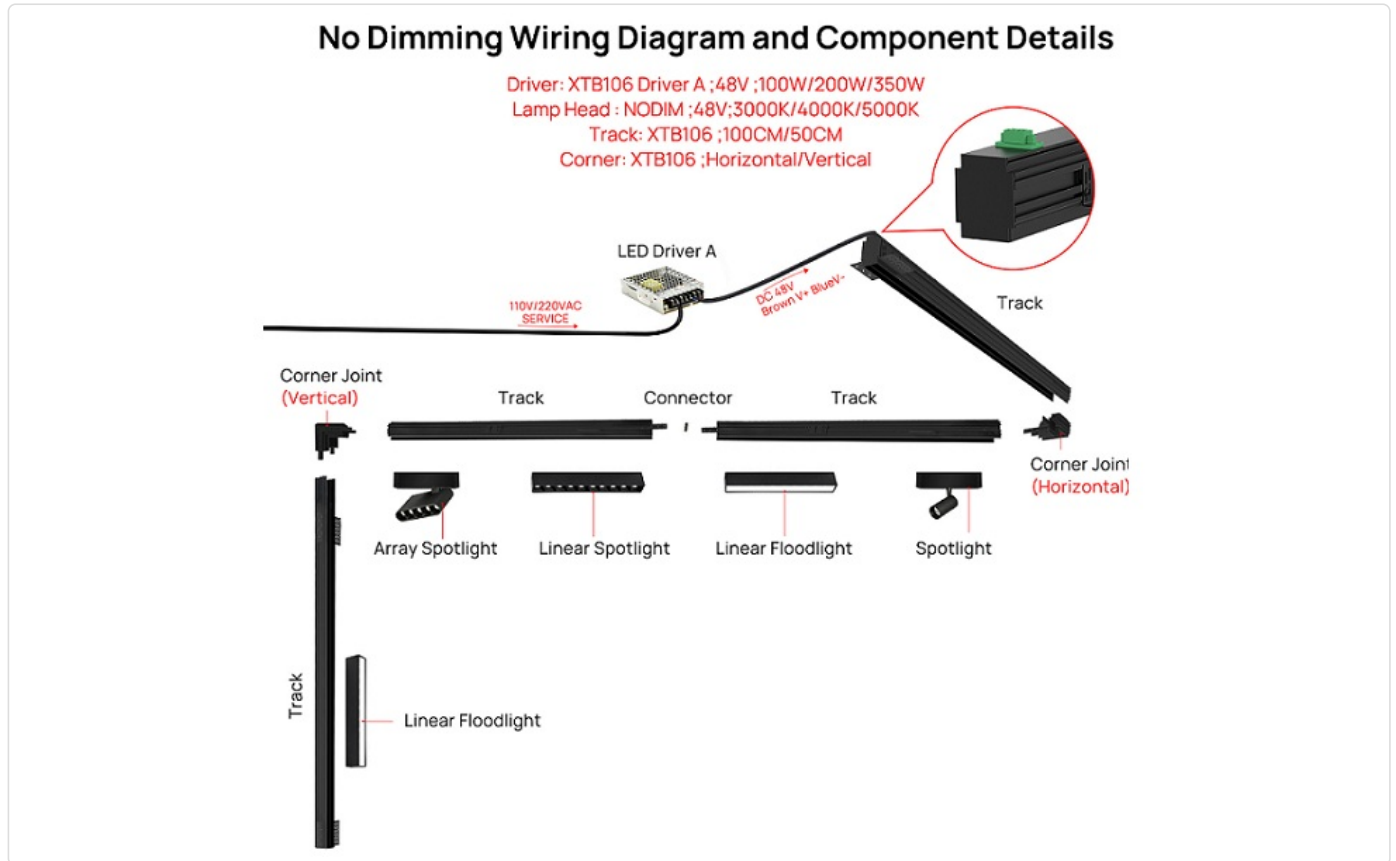


Image: Diagram illustrating the three indispensable parts of the SCON Magnetic Track Lighting System: LED Driver, Track (with and without cable), and various Lamp Heads (Spotlight, Floodlight, Downlight). Also shows connectors and corner joints.

### Non-Dimming Wiring Diagram

For a non-dimming setup, use Driver A (e.g., XTB106 Driver A, 48V, 100W/200W/350W) with the lamp head and track. This configuration provides constant illumination.

## 4 types of dimming methods and specific component options


Common parts	Component name	Required attribute	Optional attribute
	Track	XTB106 ; 48V	100CM/50CM
	Corner	XTB106 ; 48V	Horizontal/Vertical
Components matched by different dimming methods	Component name	Required attribute	Optional attribute
	NODIM	Driver: XTB106 Driver A ; 48V Lamp: XTB106 ; 48V (NODIM/0-10V /TRIAC/ELV/DALI-MONO CCT)	100W/200W/350W watt ; 3000K/4000K/5000K
0-10V/TRIAC/ELV	Driver	XTB106 Driver B ; 48V	150W/300W
	Lamp	XTB106 ; 48V (NODIM/0-10V /TRIAC/ELV/DALI-MONO CCT)	watt ; 3000K/4000K/5000K
DALI-MONO CCT	Driver	XTB106 Driver C ; 48V	150W/300W
	Lamp	XTB106 ; 48V (NODIM/0-10V /TRIAC/ELV/DALI-MONO CCT)	watt ; 3000K/4000K/5000K
DALI-MULT CCT	Driver	XTB106 Driver A ; 48V	100W/200W/350W
	Lamp	XTB106 ; 48V; DALI-MULT CCT ; 2700K-5700K	watt

For wiring methods, refer to the recessed magnetic track lighting subpage of the home page

Image: Wiring diagram for a non-dimming magnetic track lighting system, showing connections between LED Driver A, track segments, corner joints, and various lamp types like array spotlight, linear spotlight, linear floodlight, and spotlight.

## Dimming Methods and Component Options

The SCON magnetic track lighting system supports various dimming methods. Ensure you select the appropriate driver and lamp head combination for your desired dimming functionality.



SHENZHEN ZTS TESTING SERVICE CO.,LTD. NO. ZTS2001207RS

**TEST REPORT**  
**UL 1574: 2004+REV.8:2021**  
**Standard for Track Lighting Systems**

Report Number: ZTS22081207RS  
Date of issue: Aug. 18, 2022  
Contents: 9 Pages Total including the front pages.  
Applicant's name: ZHUHAISENCHENZHAOMINGKEJIYOUXIANGONGSI  
Address: Room 2002, Building 9, No. 99, Yunhai Road, Tangjiawan Town, High-tech Zone, Zhuhai City

Test specification:  
Standard: UL 1574: 2004+REV.8:2021  
Test procedure: test report  
Non-standard test method: N/A


**General disclaimer:**  
The test results presented in this report relate only to the object tested. Please file revised pages and illustrations in place of material of like identity. New material should be filed in its proper numerical order.

NOTE: Follow-Up Service Procedure revisions DO NOT include Cover Pages, Test Records and Conclusion Pages. Report revisions DO NOT include Authorization Pages, Indices, Section General Pages and Appendices. Please review this material and report any inaccuracies to our Customer Experience Center, PHONE: 066-0755-23245959, Email: zts@zts-test.com, Web: www.zts-test.com, referring to the above Project and/or PO Numbers.

Test item description: Track Lighting  
Trade Mark: SCON  
Manufacturer: Zhongshan Scon Lighting Technology Co., Ltd.  
Manufacturer Address: 5th Floor, Building C, No. 15 Qinglu Road, Maohui Industrial Zone, Henglan Town, Zhongshan City  
Model/Type reference: XTB028  
Additional models: XTB054, SC-XTL038, SC-XTL168, SC-XTM169, SC-XTL064, SC-XTL116, SC-XTH216, SC-XTD238, SC-XTD134, SC-XTD169, SC-XTD082, SC-XTR044, SC-XTS045, SC-XTU047, SC-XTX050, SC-XTD419, SC-XTD163, SC-XTD164, SC-XTD165, SC-XTD166, SC-XTL142, SC-XTL142, SC-XTD218, SC-XTD056, SC-XTD419  
Rating(s): DC24V, 10W

**TEST REPORT**  
**UL 1574: 2004+REV.8:2021**  
**Standard for Track Lighting Systems**

Certificate of Conformity



**SUPPLIER'S DECLARATION OF CONFORMITY**

Certificate No.: ZTS22090603PCF

Applicant: ZHUHAISENCHENZHAOMINGKEJIYOUXIANGONGSI  
Room 2002, Building 9, No. 99, Yunhai Road, Tangjiawan Town, High-tech Zone, Zhuhai City

Manufacturer: Zhongshan Scon Lighting Technology Co., Ltd.  
5th Floor, Building C, No. 15 Qinglu Road, Maohui Industrial Zone, Henglan Town, Zhongshan City


Product: Track lighting  
Trade Name: SCON  
Model(s): XTB028, XTB054, SC-XTL038, SC-XTL168, SC-XTM169, SC-XTL064, SC-XTL116, SC-XTH216, SC-XTD238, SC-XTD134, SC-XTD160, SC-XTD082, SC-XTR044, SC-XTS045, SC-XTU047, SC-XTX050, SC-XTD419, SC-XTD163, SC-XTD164, SC-XTD165, SC-XTD166, SC-XTL142, SC-XTL142, SC-XTD218, SC-XTD056, SC-XTD419

This is to certify that, on the basis of the tests undertaken as per Report No.: ZTS22090603PCF the submitted sample of the above item complies with:


FCC Part 15 subpart B Class B(2017),  
Measurement Procedure ANSI C63.4-2014.

This is the results of test that was carried out from the submitted type-sample of a product in conformity with the specification of the respective standards. The certificate holder has the right to fix the FCC-mark for EMI on the product complying with the inspection sample

This certificate of conformity is based on a single evaluation of the submitted sample(s) of the above mentioned product. It does not imply an assessment of the whole production and other relevant directives have to be observed.



*Bert Yang*  
Bert Yang/Senior Manager  
Sep. 09, 2022



Shenzhen ZTS Testing Service Co., Ltd.  
808, Building 1, 7th Industrial Zone, Yuhui Community, Yuhui Street, Guangming District, Shenzhen, Guangdong, China  
Web: www.zts-test.com Tel: 0755-8758-298 Fax: 0755-22945327 Email: zts@zts-test.com

Image: Table detailing four types of dimming methods (NODIM, 0-10V/TRIAC/ELV, DALI-MONO CCT, DALI-MULT CCT) and their corresponding required and optional components (Driver, Lamp, Track, Corner).

## Installation Examples



Image: An example of the magnetic track being installed within a ceiling framework before drywall is applied.



Image: Another view of the track lighting installation, showing wiring connections within the ceiling structure.



Image: A view of the finished magnetic track lighting system integrated seamlessly into a ceiling, appearing as a thin black line.

## OPERATING INSTRUCTIONS

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Once the SCON 48V LED Dual Spotlight Lamp Head is securely installed in the magnetic track and connected to the appropriate power driver, operation is straightforward.

1. **Power On:** Activate the main power switch connected to your magnetic track lighting system.

2. **Positioning:** The lamp heads can be easily moved and repositioned along the magnetic track to direct light where needed. Due to strong magnetic suction, ensure a firm grip when adjusting.
3. **Dimming (if applicable):** If a dimmable driver and dimmer switch are installed, use the dimmer switch to adjust the light intensity to your desired level. Refer to the "Dimming Methods and Component Options" section for compatibility.
4. **Beam Adjustment:** The spotlight heads can be angled to focus light on specific areas or objects.

## MAINTENANCE

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The SCON 48V LED Dual Spotlight Lamp Head is designed for low maintenance. Follow these guidelines to ensure longevity and optimal performance:

- **Cleaning:** Disconnect power before cleaning. Use a soft, dry cloth to wipe the lamp head and track. Avoid abrasive cleaners, solvents, or excessive moisture, as these can damage the finish or electrical components.
- **Inspection:** Periodically check the magnetic track and lamp heads for any signs of damage or loose connections. Ensure the lamp heads are securely seated in the track.
- **LED Lifespan:** LED lights have a long lifespan and typically do not require bulb replacement. If a lamp head malfunctions, it may need to be replaced as a complete unit.
- **Indoor Use Only:** This product is designed for indoor use only. Exposure to outdoor elements or high humidity can damage the unit and void the warranty.

## TROUBLESHOOTING

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If you encounter issues with your SCON 48V LED Dual Spotlight Lamp Head, refer to the following common troubleshooting steps:

Problem	Possible Cause	Solution
Light does not turn on.	No power to the track; Loose connection; Incorrect driver; Faulty lamp head.	Check main power switch and circuit breaker. Ensure lamp head is properly seated in the track. Verify correct driver is used for the system. Test with another lamp head if available.
Light flickers or dims unexpectedly.	Incompatible dimmer switch/driver; Loose connection; Overloaded circuit.	Ensure dimmer switch and driver are compatible with the lamp head and system. Check all connections for tightness. Reduce the number of lamp heads if the circuit is overloaded.
Lamp head does not stay in position.	Weak magnetic connection; Track damage.	Ensure the lamp head is fully engaged with the magnetic track. Inspect the track for any physical damage that might affect the magnetic connection.
Light color or brightness is inconsistent.	Faulty lamp head; Driver issue.	Replace the lamp head. If the issue persists across multiple lamp heads, consult a qualified electrician to check the driver.

If these steps do not resolve the issue, please contact SCON customer support for further assistance.

## SPECIFICATIONS

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- **Model Number:** XTB106-XTD160-10W-3-NODIM
- **Brand:** SCON
- **Power:** 10W
- **Voltage:** 48V DC (requires compatible 48V driver)
- **Color Temperature:** 3000K (Warm White)

- **Beam Angle:** 24°
- **Color Rendering Index (CRI):** Ra85
- **Material:** Aluminum
- **Product Dimensions:** 10.43 x 2.36 x 5.91 cm (approximately)
- **Weight:** 589.67 g (approximately)
- **Installation Type:** Flush Mount (for track system)
- **Special Feature:** Corded (connection to track)
- **Specific Uses:** Indoor use only

## CERTIFICATIONS

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This product adheres to relevant safety and quality standards.

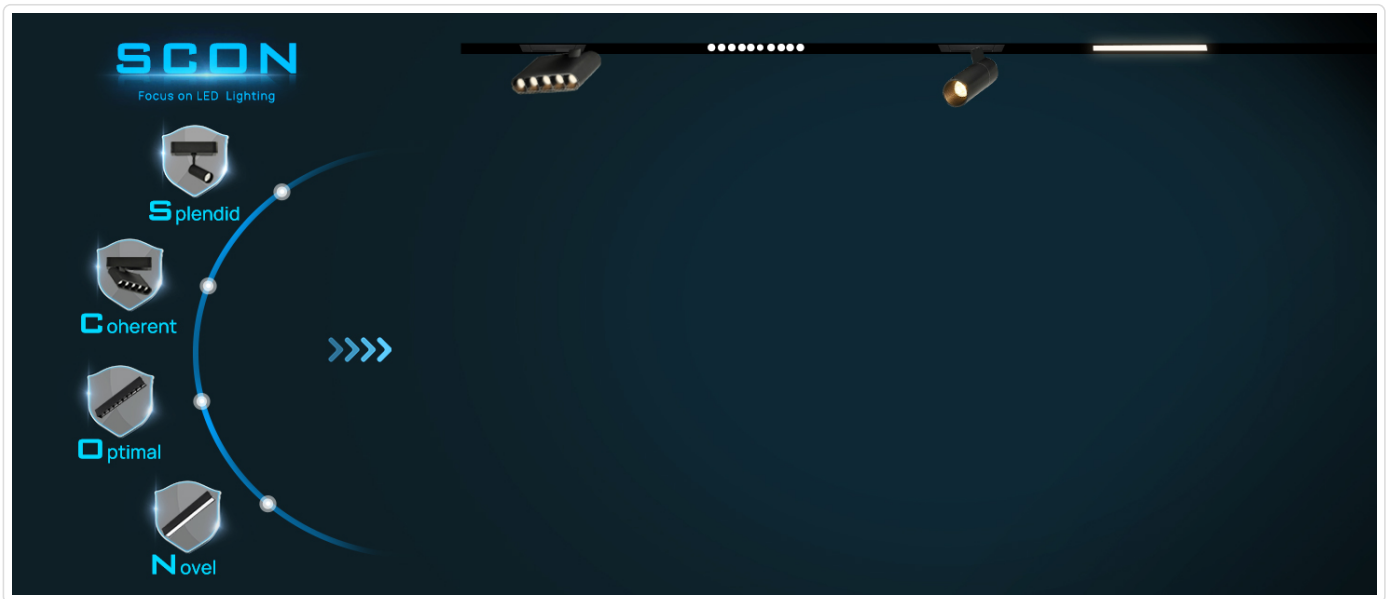


Image: Document showing UL Test Report (UL 1574) and Certificate of Conformity (FCC) for SCON track lighting products.

## WARRANTY AND SUPPORT

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For warranty information or technical support, please contact SCON directly through their official channels. Details can often be found on the product packaging or the SCON brand store on Amazon.

Visit the SCON Store: [SCON Official Store](#)