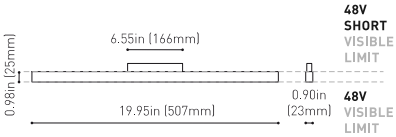
# Line 48V

ARKOSLIGHT



## Dimensions




## Accessories



TRACK 48V OPTIONS

| | |
|---|---|
| | **PRODUCT** |
| **Name** | LINE 500 48V UL DIM DALI 2700K N |
| **Reference** | U3761020N |
| **Color** | Matt black |
| **RAL** | Anodised, bath color, looks alike RAL 9005 |
| **Category** | TRACK LIGHTS |
| | **LIGHT SOURCE** |
| **Type** | LED |
| **Gross luminous flux** | 1480 Lm |
| **Color temperature** | 2700 K |
| **Chromatic stability** | MacAdam Step 2 |
| **Color Rendering Index** | CRI>90 |
| **Power** | 10.5 W |
| **Efficacy** | 141 Lm/W |
| **LED lifespan** | L80B10>60.000h |
| | **LIGHTING FIXTURE \| PHOTOMETRIC DATA** |
| **Lighting efficiency** | 43% |
| **Delivered luminous flux** | 636 Lm |
| **Light beam angle** | 98° |
| | **LIGHTING FIXTURE \| ELECTRICAL DATA** |
| **Power values of the system** | 11.5 W |
| **Dimming** | DALI |
| | **OTHER DATA** |
| **Environmental location** | DAMP |
| **Track type** | Track 48V |
| **Weight** | 0.5 lb \| 230 gr |
| **Packaged weight** | 0.88 lb \| 400 gr |
| **Packaging dimensions** | Ø2.17 x 21.65 in \| Ø55 x 550 mm |
| **Materials** | Aluminium - Polycarbonate |

Intertek

Line 48V, is the line-luminary of diffused light for 48 voltage tracklight applications. This lighting solution allows Jokerlight's 48V tracklight to combine accent lighting with longitudinal general lighting where required.

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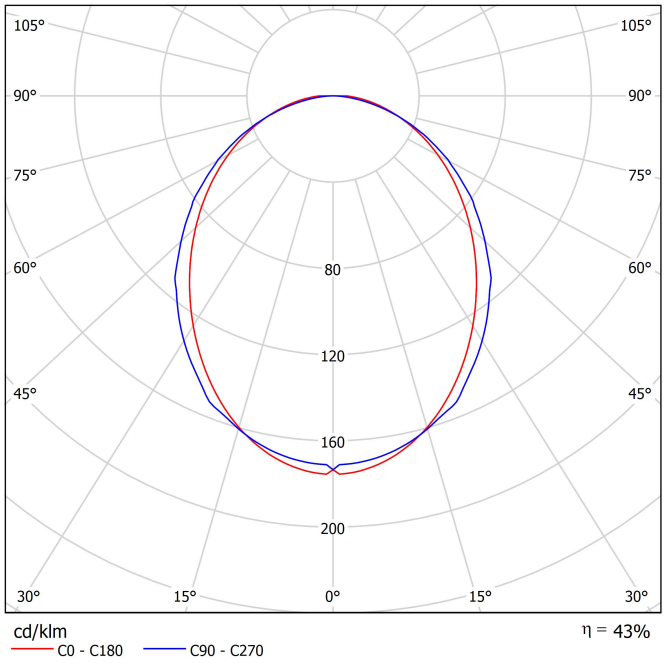


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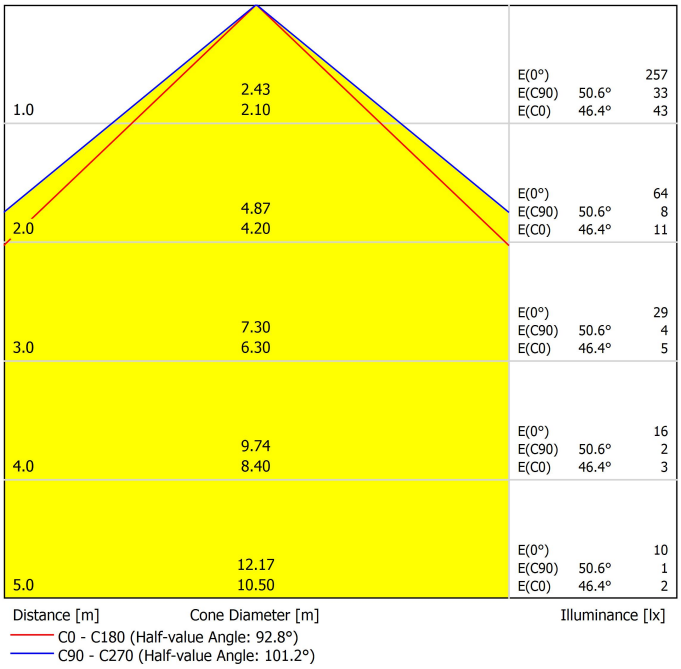
# Lighting Technical Data

ARKOSLIGHT

## Polar diagram




## Conical diagram




## UGR

**Glare Evaluation According to UGR**

| ρ Ceiling | | 70 | 70 | 50 | 50 | 30 | 70 | 70 | 50 | 50 | 30 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ρ Walls | | 50 | 30 | 50 | 30 | 30 | 50 | 30 | 50 | 30 | 30 |
| ρ Floor | | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
| Room Size X | Y | Viewing direction at right angles to lamp axis | | | | | Viewing direction parallel to lamp axis | | | | |
| 2H | 2H | 22.0 | 23.3 | 22.3 | 23.5 | 23.7 | 22.4 | 23.7 | 22.7 | 23.9 | 24.2 |
| | 3H | 23.8 | 24.9 | 24.1 | 25.2 | 25.5 | 24.1 | 25.3 | 24.4 | 25.5 | 25.8 |
| | 4H | 24.5 | 25.6 | 24.8 | 25.9 | 26.2 | 24.7 | 25.8 | 25.1 | 26.1 | 26.4 |
| | 6H | 25.1 | 26.2 | 25.5 | 26.5 | 26.8 | 25.2 | 26.2 | 25.5 | 26.5 | 26.8 |
| | 8H | 25.4 | 26.4 | 25.8 | 26.7 | 27.0 | 25.3 | 26.3 | 25.7 | 26.6 | 26.9 |
| | 12H | 25.7 | 26.6 | 26.0 | 26.9 | 27.3 | 25.4 | 26.3 | 25.7 | 26.6 | 27.0 |
| 4H | 2H | 22.6 | 23.7 | 22.9 | 24.0 | 24.3 | 22.9 | 24.0 | 23.3 | 24.3 | 24.6 |
| | 3H | 24.6 | 25.6 | 25.0 | 25.9 | 26.2 | 24.9 | 25.8 | 25.2 | 26.1 | 26.5 |
| | 4H | 25.5 | 26.3 | 25.9 | 26.7 | 27.1 | 25.7 | 26.5 | 26.0 | 26.8 | 27.2 |
| | 6H | 26.3 | 27.0 | 26.7 | 27.4 | 27.8 | 26.2 | 27.0 | 26.7 | 27.3 | 27.7 |
| | 8H | 26.6 | 27.3 | 27.1 | 27.7 | 28.1 | 26.4 | 27.1 | 26.9 | 27.5 | 27.9 |
| | 12H | 27.0 | 27.6 | 27.4 | 28.0 | 28.4 | 26.6 | 27.2 | 27.0 | 27.6 | 28.0 |
| 8H | 4H | 25.8 | 26.5 | 26.3 | 26.9 | 27.3 | 26.0 | 26.7 | 26.4 | 27.0 | 27.5 |
| | 6H | 26.8 | 27.4 | 27.3 | 27.8 | 28.2 | 26.7 | 27.3 | 27.2 | 27.7 | 28.2 |
| | 8H | 27.3 | 27.8 | 27.8 | 28.2 | 28.7 | 27.0 | 27.5 | 27.5 | 28.0 | 28.4 |
| | 12H | 27.7 | 28.2 | 28.2 | 28.6 | 29.1 | 27.2 | 27.6 | 27.7 | 28.1 | 28.6 |
| 12H | 4H | 25.9 | 26.5 | 26.3 | 26.9 | 27.3 | 26.0 | 26.6 | 26.5 | 27.0 | 27.5 |
| | 6H | 26.9 | 27.4 | 27.4 | 27.8 | 28.3 | 26.8 | 27.3 | 27.3 | 27.8 | 28.2 |
| | 8H | 27.4 | 27.8 | 27.9 | 28.3 | 28.8 | 27.2 | 27.6 | 27.7 | 28.1 | 28.6 |

Variation of the observer position for the luminaire distances S

| | | |
|---|---|---|
| S = 1.0H | +0.1 / -0.1 | +0.1 / -0.1 |
| S = 1.5H | +0.2 / -0.3 | +0.2 / -0.3 |
| S = 2.0H | +0.3 / -0.7 | +0.4 / -0.7 |
| Standard table | BK07 | BK06 |
| Correction Summand | 6.1 | 5.7 |

Corrected Glare Indices referring to 1480lm Total Luminous Flux


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# Track 48V

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48V track lighting systems are low-voltage lighting solutions based on electrified tracks. The track serves both as a physical structure and as a power carrier, allowing light modules to be placed and repositioned as needed, offering flexibility, safety, and energy efficiency.
Ideal for projects that demand minimalist design, high performance, and adaptability.

To configure your 48V system, you'll need to combine the following components:

1. Tracks – Available in surface, trimless, surface short, suspended (using suspension accessories with the surface track), and indirect light versions. They form the structural and electrical base of the system.

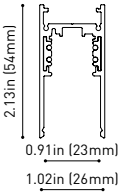
2. Connectors & Power Supply – Ensure electrical continuity between track sections and provide the 48V power input.

3. Accessories – Including end caps, joiners, mounting elements, and optional installation accessories to complete and secure the setup.

## Track Options

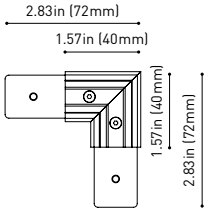
### Surface

| | |
|---|---|
| TRACK 48V SURFACE 3.28ft (1m) UL | U338-11-00- \| NT \| WT \| |
| TRACK 48V SURFACE 6.56ft (2m) UL | U338-12-00- \| NT \| WT \| |

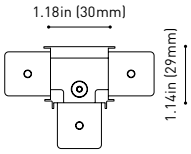



| | |
|---|---|
| TRACK 48V SURFACE Corner 90º One Plane UL | U338-14-00- \| NT \| WT \| |
| TRACK 48V SURFACE T-Joint UL | U338-15-00- \| NT \| |
| TRACK 48V SURFACE X-Joint UL | U338-16-00- \| NT \| |

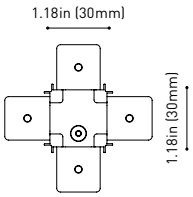
Corner 90º One Plane UL



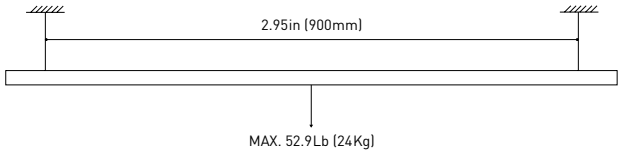

T-Joint UL




X-Joint UL




Straight joiners included
*Electrical connections not included



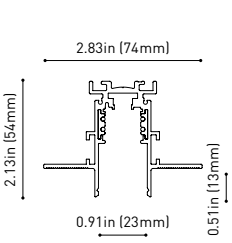

### Trimless

TRIMLESS INSTALLATION GUIDE
https://youtu.be/tgGsQdaYe-w

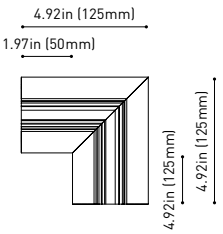
| | |
|---|---|
| TRACK 48V TRIMLESS 3.28ft (1m) UL | U338-01-00- \| N \| WT \| |
| TRACK 48V TRIMLESS 6.56ft (2m) UL | U338-02-00- \| N \| WT \| |
| TRACK 48V TRIMLESS Corner 90º One Plane UL | U338-06-00- \| N \| WT \| |
| TRACK 48V TRIMLESS Corner 90º Two Planes UL | U338-07-00- \| N \| WT \| |

Plasterboard ceiling, mandatory thickness 0.50in (12.5mm). Recommended for installations where the profile can be installed before the false plasterboard ceiling.

Track 48V Trimless UL

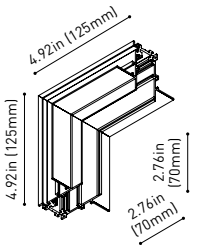



Corner 90º One Plane UL




*Electrical connection not included

Corner 90º Two Planes UL

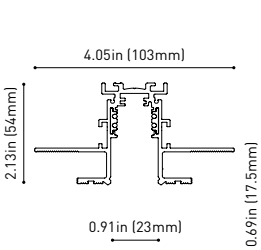



*Electrical connection not included

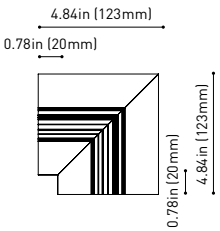
| | |
|---|---|
| TRACK 48V TRIMLESS DEEPER 4ft (1.21m) UL | U338-31-00- \| N \| WT \| |
| TRACK 48V TRIMLESS DEEPER 8ft (2.44m) UL | U338-32-00- \| N \| WT \| |
| TRACK 48V TRIMLESS DEEPER | |
| Corner 90º One Plane UL | U338-36-00- \| N \| WT \| |
| Corner 90º Two Planes UL | U338-37-00- \| N \| WT \| |

Plasterboard ceiling, mandatory thickness 0.63in (15.9mm). Recommended for installations where the profile can be installed before the false plasterboard ceiling.

Track 48V Trimless Deeper UL

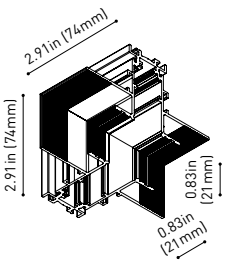



Track 48V Trim. Deeper Corner 90º One Plane UL




*Electrical connection not included

Track 48V Trim. Deeper Corner 90º Two Planes UL




*Electrical connection not included

COLOUR | NT ■ RAL 9005 | WT □ RAL 9016 | N ■ RAL 9005 |

*Electrical connections are not included. Please choose the required components from the Connectors section.

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# Track 48V

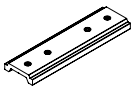
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## Complementary track accessories

Use end caps, joiners, and gap covers to connect, close, and cleanly finish your track setup.

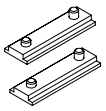
### Surface

**Surface Straight Joiner 48V UL**
U338-00-11



### Trimless

**Trimless Straight Joiners (2 units) 48V UL**
U338-00-05- | N | WT |



### For all tracks

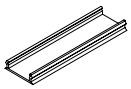
**End 48V UL**
U338-00-06- | NT | WT |



**End Feed 48V UL**
U338-00-07- | NT | WT |



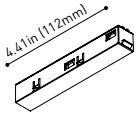
**Cover Gap 3.28ft (1m) 48V UL**
U338-00-30- | N | W |



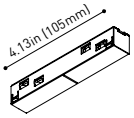
## Connector options

Connectors are required to provide electrical continuity between tracks, ensuring an uninterrupted 48V flow.

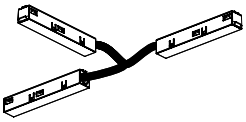
**Live-End Connector 48V UL**
U338-00-01- | N | W |



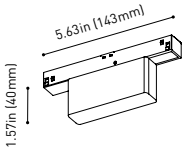

**Central Connector 48V UL**
U338-00-02- | N | W |



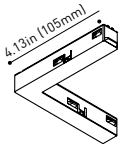

**T-Joint Connector 48V UL**
U450-00-07- | N |



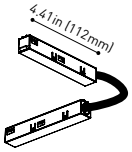
**Wireless Control 48V UL**
U434-01-31- | N | W | Casambi



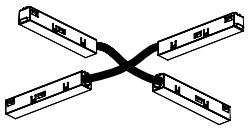

**Corner 90º Connector One Plane 48V UL**
U338-00-24- | N | W |
*Not suitable for trimless version




**L-Joint Connector 48V UL**
U338-00-12- | N | W |




**X-Joint Connector 48V UL**
U450-00-08- | N |



## Power Supply Options

Select the appropriate power feed to deliver 48V to the system based on your track layout and installation type.

### For all tracks

| | | P | V | D |
|---|---|---|---|---|
| CONSTANT VOLTAGE LED POWER SUPPLY | U100-00-78 | 96W | 48V | 8.16 x 2.97 x 1.30 in<br>207 x 75.4 x 33 mm |

120 & 277 V | 50/60 Hz

UL DROP VOLTAGE TABLE

| | | CABLE LENGHT | | | |
|---|---|---|---|---|---|
| | | 16.40ft<br>5m | 32.80ft<br>10m | 65.62ft<br>20m | 98.43ft<br>30m |
| POWER | CABLE SECTION | TRACK LENGHT | | | |
| 96W | AWG16 | 164ft<br>50m | 164ft<br>50m | 131.32ft<br>40m | 82ft<br>25m |

COLOUR | N ■ RAL 9005 | W □ RAL 9016 |

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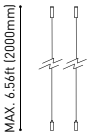
# Other accessories

## Alternative suspension installation

For a suspended configuration, use surface components together with the following accessories:

**Suspension Kit (2 units) 48V UL**

U338-00-15- | NT | WT |




**Suspension feed Kit 48V UL**

U338-00-17- | N | W | DIM

*for remote power supply



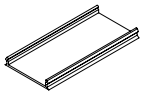

## Trimless installation accessories

Accessories designed to assist in the installation of trimless track systems, making the process easier and ensuring precision.

**Trimless Plaster Installation Guard 3.28ft (1m) 48V UL**

U338-00-21

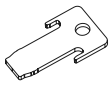
Recommended for installation



**Fixing Template for Track 48V Trimless UL**

U338-00-31

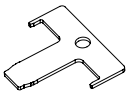
Recommended for installation



**Fixing Template for Track 48V Trimless Deeper UL**

U338-30-31

Recommended for installation



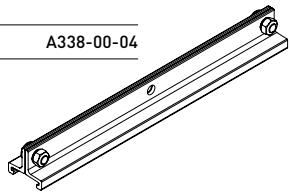
## Trimless mounting accessories

These accessories offer different options for installing trimless track systems according to ceiling type and project needs.

**Trimless T-Bracket 48V UL** U338-00-03



**Trimless Long T-Bracket 48V UL** A338-00-04



**Trimless Clamp for M6 ROD 48V UL** U338-00-09

*See accessories quantities



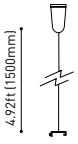
**Trimless Track Clamp 48V UL** U338-00-10

*See accessories quantities



**Trimless Suspension Kit 48V UL** U338-00-08

*See accessories quantities




SUGGESTED MOUNTING ACCESSORIES QUANTITIES

3.28 ft (1000 mm) - 2 Pcs

6.56 ft (2000 mm) - 3 Pcs

TRIMLESS INSTALLATION GUIDE

https://youtu.be/tgGsQdaYe-w

COLOUR | NT ■ RAL 9005 | WT □ RAL 9016 | N ■ RAL 9005 | W □ RAL 9016 |

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