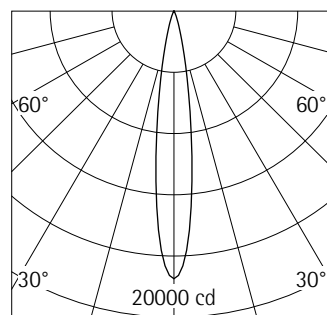


**A9000578** White (RAL9002)  
 LED module: 19.6W 2348lm 3500K  
 neutral white  
 On-board Dim  
 Version 1  
 Size M  
 Spherolit lens, spot

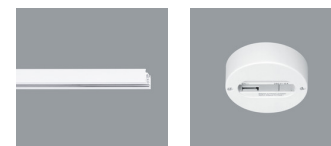
**Product description**  
 Cylindrical light head: cast aluminium, powder-coated. 270° tilt.  
 Housing: polymer, rotatable on adapter through 360°.  
 3-phase adapter for ERCO 220-240V track: polymer, white.  
 ERCO control gear. Rotary control for brightness regulation.  
 LED module: high-power LEDs.  
 Collimating lens made of optical polymer.  
 Lens unit: polymer, white. Spherolit lens made of optical polymer.  
 Install the luminaire out of people's normal reach.  
 Photobiological safety: RG2 min 0.5m.  
 Protection Class II  
 Weight 0.68kg



h(m)	E(lx)	D(m)
		15°
1	17488	0.26
2	4372	0.53
3	1943	0.79
4	1093	1.05
5	700	1.32

**Technical data**

Luminous flux of the luminaire	1759lm
Connected load	22.3W
Luminaire efficacy	79lm/W
Colour deviation	1.5 SDCM
Colour rendition index	CRI 92
Lumen maintenance (LED manufacturer specifications)	L90/B10 ≤50000h L90 ≤100000h
LED failure rate	0.1% ≤50000h
Dimming range	1%-100%
Dimming method	CCR
TLA (Temporal Light Artefacts)	SVM ≤ 0.1; PstLM ≤ 1
LMF	E
Standby power per control gear	0.4W
Luminaires per circuit breaker B16	142



**Mounting**  
 ERCO 3-circuit track  
 Hi-trac 3-circuit track  
 1-circuit singlet

For your regional contact in the ERCO  
 Sales network [click here](http://www.ercosales.com)  
[www.ercosales.com/contact](http://www.ercosales.com/contact)

Technical Region: 220-240V 50/60Hz  
 We reserve the right to make technical and design changes.  
 Edition: 24.05.2024  
 Current version under  
[www.ercosales.com/A9000578](http://www.ercosales.com/A9000578)

## Planning data

### Melanopic light effect

Art. no.	Spectrum	MR	MDER
A9000578 (direct)	3500K CRI 92	0.62	0.57

MR Melanopic factor (of luminous radiation)  $a_{mel,v}$   
 MDER Melanopic Daylight Efficacy Ratio  $[\gamma]_{mel,v,D65}$

Multiplying the illuminance with the melanopic daylight efficacy ratio MDER gives the melanopic equivalent daylight illuminance MEDI. (MEDI Melanopic Equivalent Daylight Illuminance  $[lx] E_{v,mel,D65} [lx]$ ).

### Extract from the Environmental Product Declaration (EPD)

The entire EPD can be found at: [www.erco.com/A9000578](http://www.erco.com/A9000578)

Extrapolation coefficients to convert the reference data from the EPD document for the declared unit

Lighting output	Manufacturing	Distribution	Installation	Use	EoL	Benefits and loads
1724	2.592	1.316	1	1.906	1.518	2.592

Frequently used EPD data that have already been converted for this article number.

Parameter	Unit	A1-A3	A4	A5	B6	C1	C2	C3	C4	D	Total, excl. D
Results per functional unit											
GWP	kg CO2-eq.	9.47E00	6.93E-02	1.27E-01	1.37E02	0.00E00	1.98E-03	1.91E-01	2.05E-03	-1.96E-01	1.47E02
GWP-biogenic	kg CO2-eq.	-3.16E-01	0.00E00	1.22E-01	0.00E00	0.00E00	0.00E00	0.00E00	0.00E00	0.00E00	-1.94E-01
Results per declared unit											
GWP	kg CO2-eq.	3.50E01	2.55E-01	4.70E-01	5.05E02	0.00E00	7.33E-03	7.04E-01	7.56E-03	-7.23E-01	5.41E02
GWP-biogenic	kg CO2-eq.	-1.17E00	0.00E00	4.50E-01	0.00E00	0.00E00	0.00E00	0.00E00	0.00E00	0.00E00	-7.20E-01

A1-A3 Manufacturing  
 A4 Distribution  
 A5 Installation  
 B6 Use  
 C1-C4 End of Life  
 D Benefits and loads

The data for operating the light (Use B6) refer to the European power source mix. You will find the ERCO EPD Help under Downloads/General planning data.

Cleaning (a)	1				2				3			
	P	C	N	D	P	C	N	D	P	C	N	D
Ambient conditions												
LMF	0.96	0.94	0.90	0.86	0.93	0.91	0.86	0.81	0.92	0.90	0.84	0.79

Hours of operation (h)	1000	5000	10000	20000	30000	40000	50000
LLMF	1.00	0.99	0.98	0.96	0.94	0.92	0.90
LSF	1	1	1	1	1	1	1

MF LMFxLLMFxLSF  
 MF Maintenance Factor  
 LMF Luminaire Maintenance Factor  
 LLMF Lamp Lumens Maintenance Factor  
 LSF Lamp Survival Factor  
 P Room pure  
 C Room clean  
 N Room normal  
 D Room dirty

### Data according to regulations

2019/2020/EU supplemented by 2021/341/EU and 2019/2015/EU supplemented by 2021/340/EU Energy Consumption Labelling Ordinance

This product contains a light source of efficiency class E  
 Due to thermal and photometric properties as well as to protect electronic components from ESD (electrostatic discharge) the light source cannot be changed by the customer.

ID EPREL: 1784572  
 Model identifier: 3000068536  
 Download data sheets for control gear and disassembly instructions at [www.erco.com/slr](http://www.erco.com/slr)

## Planning data

**Technical data in accordance with international norms and standards**

IEC 60598	Luminaires – Part 1+2: general requirements, specific requirements and tests
IEC 62031	LED modules for general lighting – safety requirements
IEC 62471	Photobiological safety of lamps and lamp systems
EN 13032-4	Light and lighting – measurement and representation of photometric data
CIE 13	Method of measuring and specifying colour rendering properties of light sources

All technical data is subject to industry-standard tolerances.  
Also see [www.erco.com/erco-led](http://www.erco.com/erco-led)

For explanations of the symbols and abbreviations used and other general information, see [www.erco.com/symbols](http://www.erco.com/symbols)

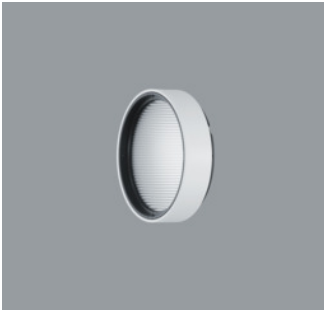
## Accessories



**AC002074**  
 Lens unit spot  
 Polymer, black lacquered, rotatable through 360°. Replacement without tools.  
 Spherolit lens made of optical polymer.  
 Weight 0.14kg



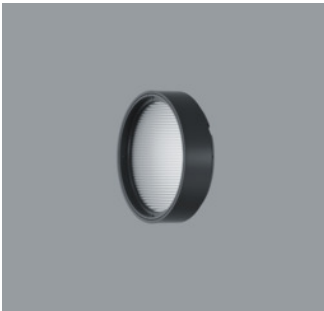
**AC002075**  
 Lens unit extra wide flood  
 Polymer, black lacquered, rotatable through 360°. Replacement without tools.  
 Spherolit lens made of optical polymer.  
 Weight 0.14kg



**AC002109**  
 Lens unit spot  
 Polymer, white, rotatable through 360°. Replacement without tools.  
 Spherolit lens made of optical polymer.  
 Weight 0.14kg



**AC002110**  
 Lens unit extra wide flood  
 Polymer, white, rotatable through 360°. Replacement without tools.  
 Spherolit lens made of optical polymer.  
 Weight 0.14kg



**AC002072**  
 Lens unit flood  
 Polymer, black lacquered, rotatable through 360°. Replacement without tools.  
 Spherolit lens made of optical polymer.  
 Weight 0.14kg



**AC002073**  
 Lens unit oval flood  
 Polymer, black lacquered, rotatable through 360°. Replacement without tools.  
 Spherolit lens made of optical polymer.  
 Weight 0.14kg



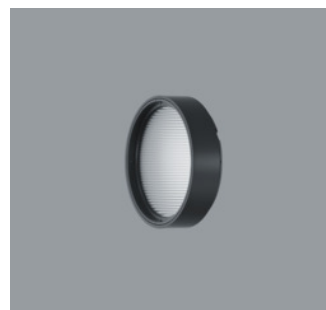
**AC002106**  
 Lens unit flood  
 Polymer, white, rotatable through 360°. Replacement without tools.  
 Spherolit lens made of optical polymer.  
 Weight 0.14kg



**AC002108**  
 Lens unit oval flood  
 Polymer, white, rotatable through 360°. Replacement without tools.  
 Spherolit lens made of optical polymer.  
 Weight 0.14kg



**AC002071**  
 Lens unit wide flood  
 Polymer, black lacquered, rotatable through 360°. Replacement without tools.  
 Spherolit lens made of optical polymer.  
 Weight 0.14kg



**AC002079**  
 Lens unit oval wide flood  
 Polymer, black lacquered, rotatable through 360°. Replacement without tools.  
 Spherolit lens made of optical polymer.  
 Weight 0.14kg

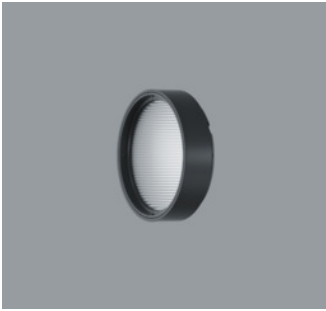


**AC002105**  
 Lens unit wide flood  
 Polymer, white, rotatable through 360°. Replacement without tools.  
 Spherolit lens made of optical polymer.  
 Weight 0.14kg



**AC002114**  
 Lens unit oval wide flood  
 Polymer, white, rotatable through 360°. Replacement without tools.  
 Spherolit lens made of optical polymer.  
 Weight 0.14kg

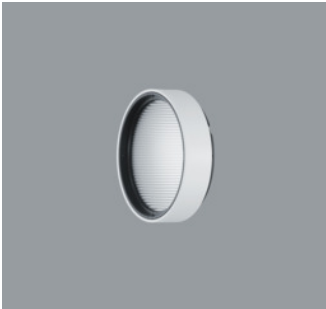
## Accessories



**AC002077**  
 Lens unit wallwash  
 Polymer, black lacquered, rotatable through 360°. Replacement without tools.  
 Spherolit lens made of optical polymer.  
 Weight 0.14kg



**AC002257**  
 Lens unit narrow framing  
 Aluminium/polymer, coated white, pivotable through 360°. Replacement without tools.  
 Projection lens, continuously focusable. Ideal for long projection distances.  
 Framing attachment: stainless steel, black.  
 Aperture.  
 Weight 0.55kg



**AC002112**  
 Lens unit wallwash  
 Polymer, white, rotatable through 360°. Replacement without tools.  
 Spherolit lens made of optical polymer.  
 Weight 0.14kg



**AC002262**  
 Lens unit narrow framing  
 Aluminium/polymer, coated black, pivotable through 360°. Replacement without tools.  
 Projection lens, continuously focusable. Ideal for long projection distances.  
 Framing attachment: stainless steel, black.  
 Aperture.  
 Weight 0.55kg



**AC002119**  
 Lens unit zoom spot  
 Polymer, black lacquered, rotatable through 360°. Replacement without tools.  
 Anti-reflective zoom lens made of optical polymer, infinitely variable focus.  
 Weight 0.09kg



**AC002260**  
 Lens unit wide framing  
 Aluminium/polymer, coated white, pivotable through 360°. Replacement without tools.  
 2 projection lenses, continuously focusable. Ideal for short projection distances.  
 Framing attachment: stainless steel, black.  
 Aperture.  
 Weight 0.55kg



**AC002130**  
 Lens unit zoom spot  
 Polymer, white, rotatable through 360°. Replacement without tools.  
 Anti-reflective zoom lens made of optical polymer, infinitely variable focus.  
 Weight 0.09kg



**AC002265**  
 Lens unit wide framing  
 Aluminium/polymer, coated black, pivotable through 360°. Replacement without tools.  
 2 projection lenses, continuously focusable. Ideal for short projection distances.  
 Framing attachment: stainless steel, black.  
 Aperture.  
 Weight 0.55kg



**AC002121**  
 Lens unit zoom oval  
 Polymer, black lacquered, rotatable through 360°. Replacement without tools.  
 Anti-reflective zoom lens made of optical polymer, infinitely variable focus.  
 Weight 0.09kg



**AC006001**  
 Softening lens  
 Filter holder: polymer, black, rotatable through 360°. Replacement without tools.  
 Weight 0.07kg

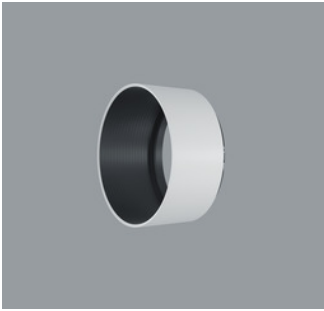


**AC002132**  
 Lens unit zoom oval  
 Polymer, white, rotatable through 360°. Replacement without tools.  
 Anti-reflective zoom lens made of optical polymer, infinitely variable focus.  
 Weight 0.09kg



**AC006026**  
 Sculpture lens  
 Filter holder: polymer, black, rotatable through 360°. Replacement without tools.  
 Weight 0.07kg

## Accessories



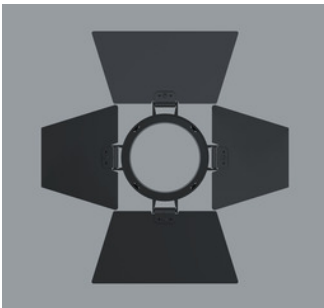
**AC001003**  
Snoot  
Polymer, black, coated white on outside.  
Weight 0.04kg



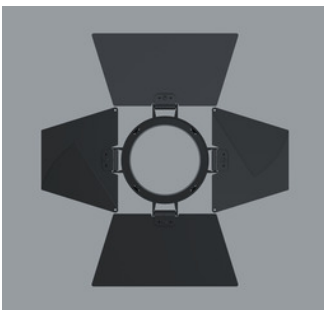
**AC001011**  
Snoot  
Polymer, black.  
Weight 0.04kg



**AC004025**  
Honeycomb anti-glare screen  
Black  
Weight 0.06kg



**AC005001**  
Barn doors 4-fold  
Aluminium, coated black.  
Weight 0.13kg



**AC005003**  
Barn doors 8-fold  
Aluminium, coated black.  
Weight 0.16kg

## Notes and safety instructions

### Luminaires for ERCO track

#### English

- The following safety instructions and information apply to luminaires with 3-circuit adapter, DALI adapter, transadapter and DALI transadapter.  
- Follow all enclosed instructions during installation.



Read the instructions carefully before installation and commissioning!



Leave the instructions for users/customers for future reference!

#### General safety information

**Warning!**  
**Risk of electric shock!**


- Before carrying out maintenance and installation on the luminaire, disconnect from the mains supply and also from any other DALI control wiring, and ensure that all power is switched off.  
- The luminaire is approved for mounting in ERCO track only.  
- If ERCO adapters are used with products manufactured by third parties, no liability can be accepted for the electrical safety and functionality of the combined system or for consequential damage resulting from the combination. The liability for defective ERCO adapters remains unaffected.

**Caution!**  
**Blue light hazard!**



Position the luminaire marked with one of two adjacent pictograms so that extended gazing into the luminaire from a distance of less than x m is not expected. Find the value for x in the included graphic installation instructions.

**Caution!**  
**Risk of fire!**

This sign  on the luminaire symbolises the safety distance between luminaire and directly illuminated object in beam direction. Failure to keep this safety distance may damage the object or cause fire.

**Caution!**  
**Risk of burns!**



Luminaire with this pictogram in the attached graphic mounting instructions may reach surface temperatures of more than 60° and cause skin burns. This luminaire must be installed outside of the hand area.

#### Attention!

- The LED module of this luminaire may only be replaced or repaired by the manufacturer. If the LED module is damaged or fails, the complete luminaire must be sent back to the factory.  
- Never operate luminaires with damaged connection cables. The connection cable may only be replaced by the manufacturer.

- When installing, always observe the national installation and accident prevention regulations.

#### Intended use

The luminaire is suitable for use in dry interiors only.

#### Restrictions

Luminaires with transadapters or DALI transadapters may not be installed in singlets.

#### Wall-mounting

If track is mounted horizontally, only luminaires weighing up to a maximum of 2kg may be used.  
If vertically mounted, the guiding groove on the track profile must be facing to the right. Only use luminaires weighing up to a maximum of 3.5kg. For deviating restrictions, please refer to the enclosed graphic mounting instructions.

#### Choosing the mounting location

Position the luminaire so as to avoid operation in direct sunlight or near other sources of heat. High ambient temperatures can reduce the life and efficiency of the control gear or LED module.

#### Luminaires with radio control

Depending on the version, these luminaires can be controlled via Casambi Bluetooth or Zigbee.  
- ERCO GmbH hereby declares that the track luminaires with Casambi Bluetooth or Zigbee control are compliant with Directive 2014/53/EU and the UK SI 2017 No. 1206 - The Radio Equipment Regulations 2017.

Radio operation takes place on the frequency bands 2402 - 2480 MHz (Casambi Bluetooth, Zigbee) with a maximum transmission power of 4/8 dBm (Casambi Bluetooth) or 10 dBm (Zigbee).

The complete text of the certificates is available at the following internet address: [www.erco.com/certificates](http://www.erco.com/certificates)  
**Luminaires with Casambi Bluetooth**  
- For control of the luminaire you need a Bluetooth 4.0-capable smartphone or tablet and the Casambi app for iOS or Android downloadable for free in the specific app stores.

- You can couple up to 250 luminaires in a Casambi mesh network. This number can be increased via several parallel networks.  
- Because the switching signal in a mesh network is transferred from luminaire to luminaire, the spacing between two luminaires must not exceed 10m. This distance may be less according to the environment. For this reason you should check possible spacing between the luminaires prior to installation.

#### Luminaires with Zigbee

Precondition: Zigbee 3.0 suitable hub available.

- It is recommended to always check the combination of Zigbee devices and luminaires.

- Provided that mains voltage is permanently present, the luminaires in the Zigbee Mesh network can be used as routers.  
- Depending on the Zigbee hardware, up to 240 devices are possible in one network.

- Several networks can be set up in parallel. For further information see [www.zigbee.org](http://www.zigbee.org)

#### Initial installation of luminaire with Zigbee

1. Activate network and open it at the gateway via the software.
2. Insert luminaire in track and switch on power supply on the luminaire.

- The luminaire automatically connects to the network.  
Note: networks remain open for only a few minutes, repeat the entire connection process if necessary. Further information can be found here: [www.erco.com/zigbee](http://www.erco.com/zigbee)

#### Removing luminaire with Zigbee from an existing network

If a luminaire is to be stored or used in another network, log it off from the current network before removing. For this purpose use a command in the current network, e.g. "Delete luminaire". If you have not logged off the luminaire you must reset it before further use. For information about this see: [www.erco.com/zigbee](http://www.erco.com/zigbee)

#### Luminaires with DALI

The DALI control lines and mains cable are basic insulated from each other. Maintaining the designated insulation barriers of the luminaire or device may also depend on components/products externally connected to the control bus. This is the responsibility of the control system designer and not the luminaire or device manufacturer.

#### Luminaires with RGBW / tunable white

Control via Casambi Bluetooth, Zigbee or DALI. A DALI system with colour management (device type 8) is required for control via DALI.  
Colour compensation ensures the same light colour for all controlled luminaires with the same control values.

#### Electrical installation

For 3-circuit installation: to avoid any damage to the control gear, the neutral conductor must never be connected or disconnected during operation.

#### Overvoltage protection

ERCO uses electronic control gear with overvoltage protection in accordance with DIN EN 61547. If additional protection from spikes is required, e.g. when switching off inductive loads, separate overvoltage protection units should be installed.

#### Dimming

Depending on the version, the luminaire can be dimmed via suitable dimmers (trailing edge).

**Trailing edge dimmers**  
Follow the manufacturer's installation instructions.

For some products, the luminaire can only be switched on in the upper dimming range. Before installation and connection, check luminaire, control gear and dimmer combination for proper functioning of the dimmer, especially when using universal dimmers.

The use of dimmers which are unsuitable for LED drivers can damage the luminaire, control gear and/or the dimmer. No responsibility is accepted for the use of dimmers that are unsuitable for the luminaire.

#### On-board Dim (potentiometer)

The luminous flux can be continuously dimmed with the rotary control on the luminaire, and (depending on the version) also with a trailing edge dimmer.

#### Rotate light distribution

**Caution!**  
**Danger from falling parts!**

#### Lens Unit

When adjusting, turn the lens clockwise only. Turning anticlockwise releases the lens from the luminaire!

#### Spherolit lens

When loosening the lens holder make sure the Spherolit lens doesn't fall to the ground!

#### Luminaires with wallwash

By rotating the luminaires, walls or objects on both sides of the luminaire can be illuminated. Note that the lens must always be aligned as shown in the graphic mounting instructions for this purpose.


#### Flashing of the LED module

It is normal for the LED module to flicker when switching on and off.

#### Cleaning

Always clean carefully using a soft cloth and a commercially available, pH-neutral, alcohol-free, non-abrasive cleaning agent.

#### Disposal

 In accordance with EU Directive WEEE (Waste Electrical and Electronic Equipment), luminaires must not be disposed of with other household waste. At the end of their life, luminaires must be taken to the appropriate local facility available for the disposal or recycling of electronic products.

Effizienzklasse Lichtquelle  
Efficiency class light source  
Classe d'efficacité énergétique de la source lumineuse  
Efficiëntieklasse lichtbron  
Classe di efficienza della sorgente luminosa  
Clase de eficiencia de la fuente de luz  
Ljuskällans energiklass  
Energiklasse lyskilde  
Energieeffektivitetsklasse for lyskilden

## Deutsch

Dieses Produkt enthält eine Lichtquelle der Effizienzklasse E.  
Aus wärmetechnischen und lichttechnischen Gründen sowie dem Schutz elektronischer Bauteile vor ESD (Electro Static Discharge) kann die Lichtquelle nicht vom Kunden gewechselt werden.

## English

This product contains a light source of efficiency class E.  
Due to thermal and photometric properties as well as to protect electronic components from ESD (electrostatic discharge) the light source cannot be changed by the customer.

## Français

Ce produit comprend une source lumineuse de classe d'efficacité énergétique E.  
Pour des raisons techniques liées à la chaleur et à l'éclairage, ainsi que pour protéger les composants électroniques contre la décharge électrostatique (DES), la source lumineuse ne peut pas être remplacée par le client.

## Nederlands

Dit product bevat een lichtbron van efficiëntieklasse E.  
Om warmtetechnische en lichttechnische redenen almede de bescherming van elektronische componenten tegen ESD (elektrostatische ontlading) kan de lichtbron niet door de klant worden gewisseld.

## Italiano

Questo prodotto contiene una sorgente luminosa con classe di efficienza E.  
Per ragioni tecniche di temperatura e illuminazione e la protezione dei componenti elettrici dall'ESD (Electro-Static Discharge), la sorgente luminosa non deve essere sostituita dal cliente.

## Español

Este producto contiene una fuente de luz con clase de eficiencia E.  
Por motivos térmicos y luminotécnicos, así como para proteger los componentes electrónicos contra descargas electrostáticas (ESD), no se permite al cliente cambiar la fuente de luz.

## Svenska

Denna produkt innehåller en ljuskälla i energiklass E.  
Av värme- och ljus tekniska skäl samt avseende skyddet av elektroniska komponenter mot elektrostatiska urladdningar (ESD) kan ljuskällan inte bytas av kunden.

## Norsk

Dette produktet inneholder en lyskilde i energiklasse E.  
Av varme- og lystekniske årsaker samt for å beskytte de elektroniske komponentene mot ESD (Electro Static Discharge), er det ikke mulig for kunden å skifte lyskilde.

## Dansk

Dette produkt indeholder en lyskilde i energieffektivitetsklasse E.  
Af varmetekniske og lystekniske samt for at beskytte de elektroniske komponenter mod ESD (electrostatic discharge/statiske udledninger) kan kunden ikke selv udskifte lyskilden.

### General safety information

**CAUTION**

max. 5.0kg\*    max. 3,5 kg\*  
 guiding groove right    max. 2.0kg\*

\* incl. accessories

**CAUTION**

x=min

Size	S	M
Narrow spot	1.4m	1.5m
Spot	0.5m	0.5m
Flood	0.3m	0.3m

**CAUTION**

min. 1.5m  
 min. 2.5m

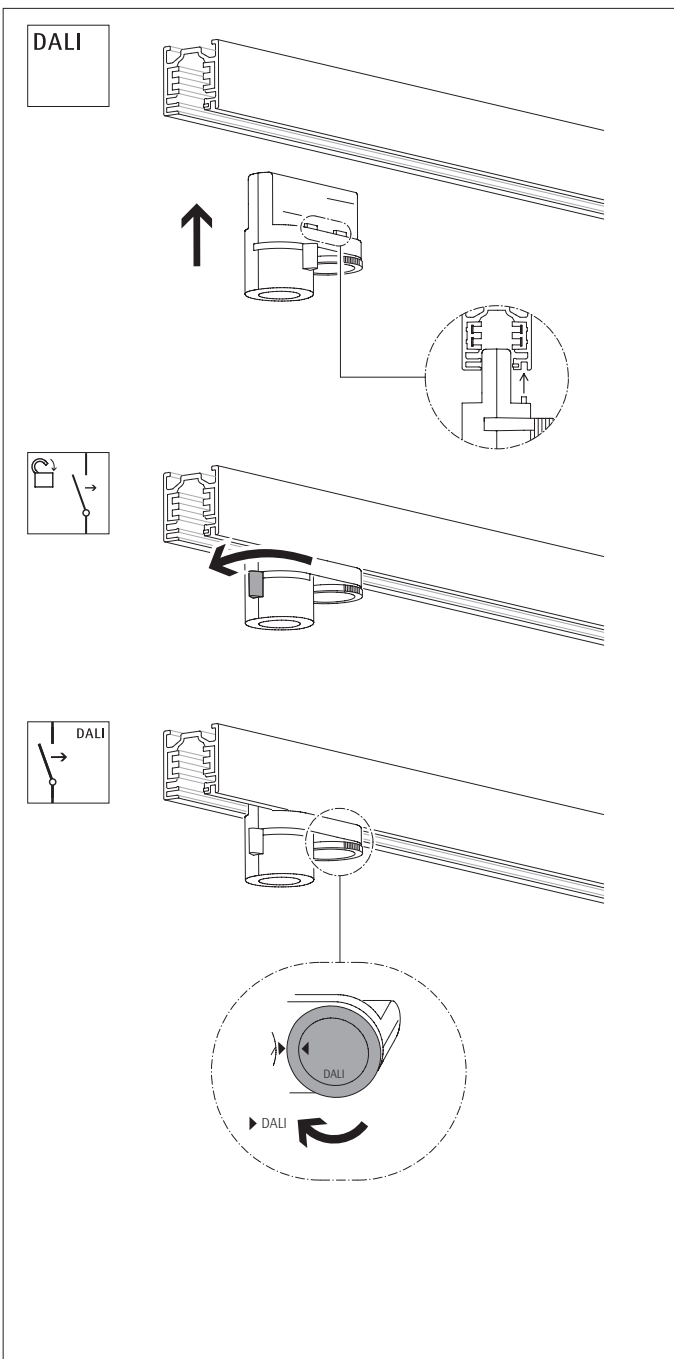
Only fixed light colour luminaires    All light distributions except narrow spot

### On-board Dim Casambi Bluetooth

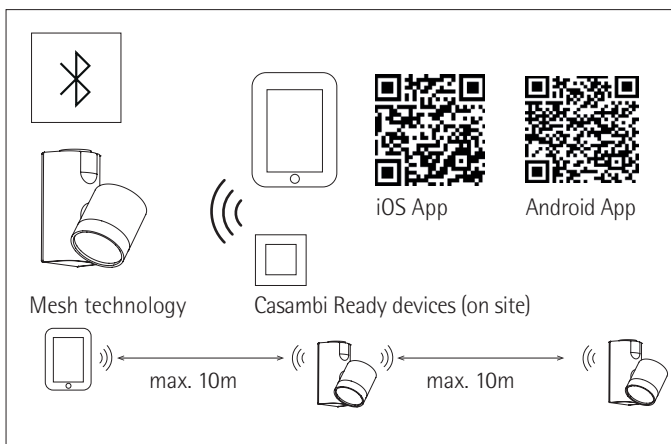
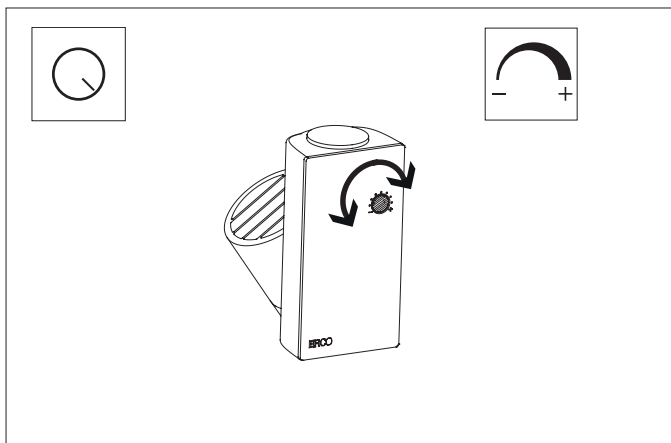
The diagrams show the following steps:

- Inserting the Casambi Bluetooth module into the light fixture's on-board connector.
- Connecting the module to the fixture's internal wiring (labeled 1, 2, 3).
- Rotating the module to the correct position, indicated by arrows 1, 2, and 3.

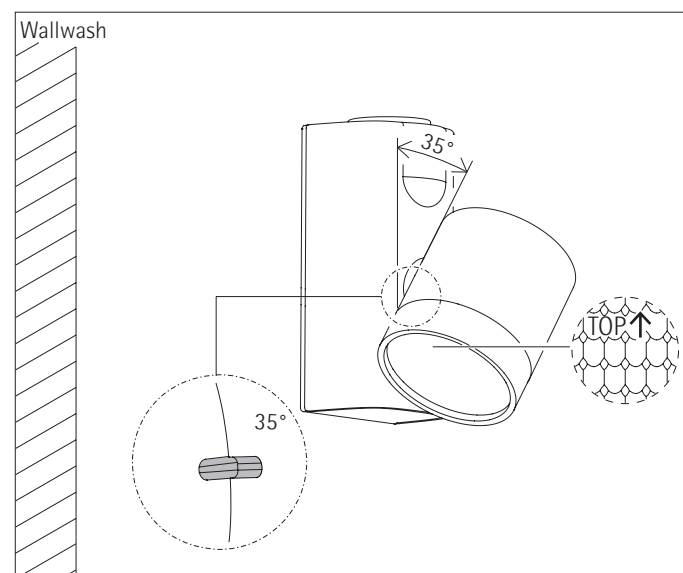
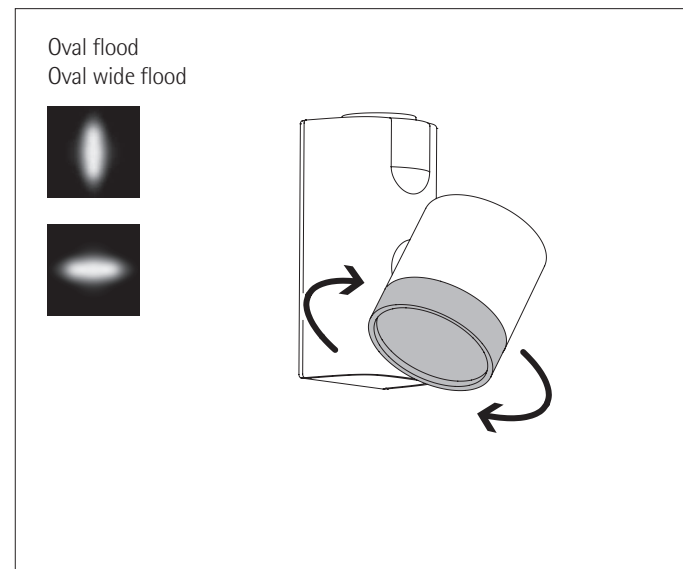
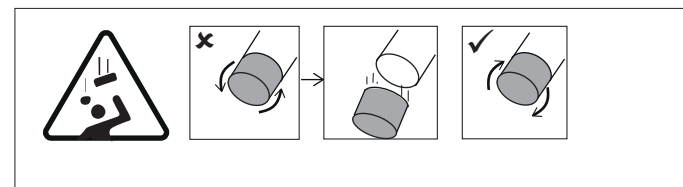
## DALI



## On-board Dim Casambi Bluetooth

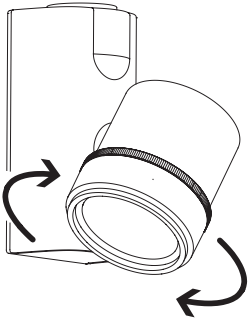
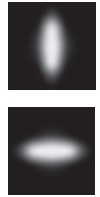
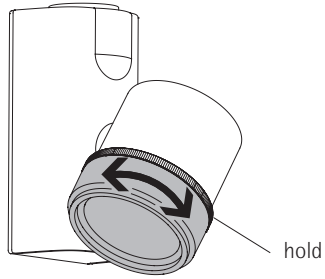
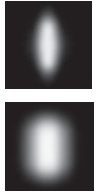


## Rotate light distribution

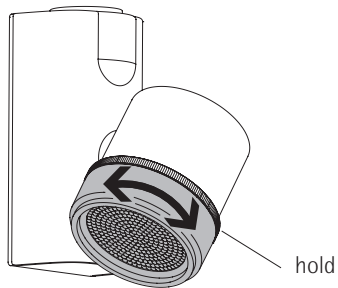


## Rotate light distribution

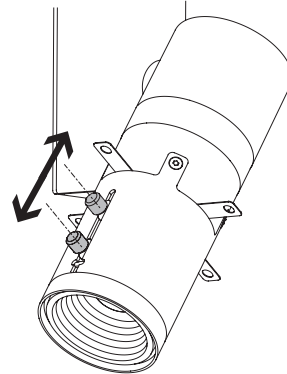
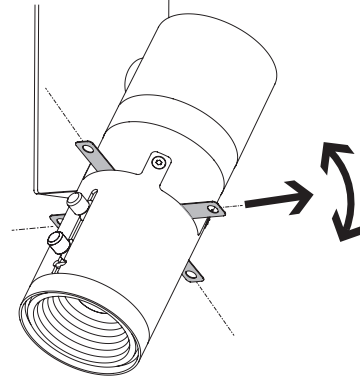
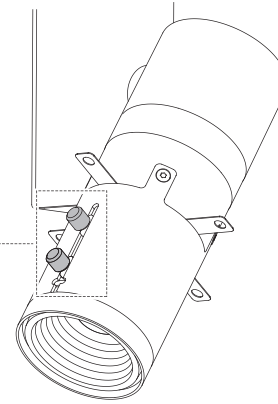
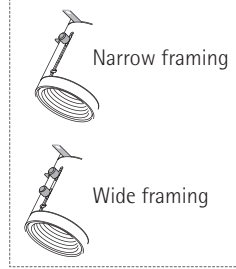
Zoom oval



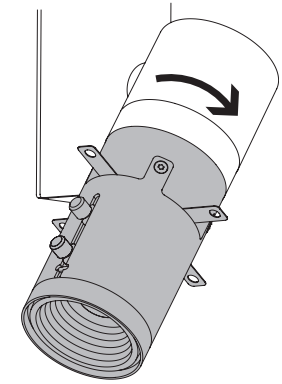
Zoom spot



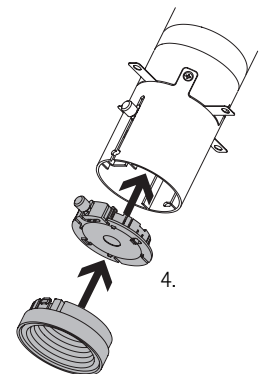
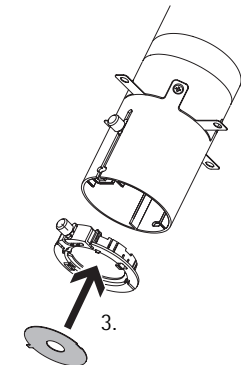
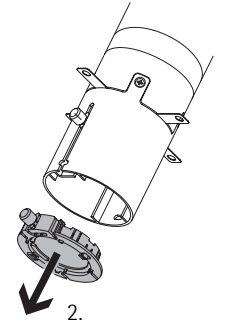
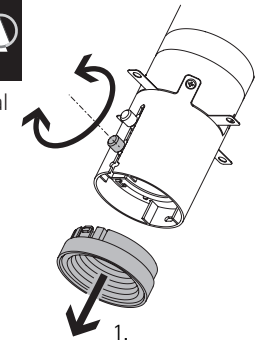
## Contour spotlight



## Contour spotlight



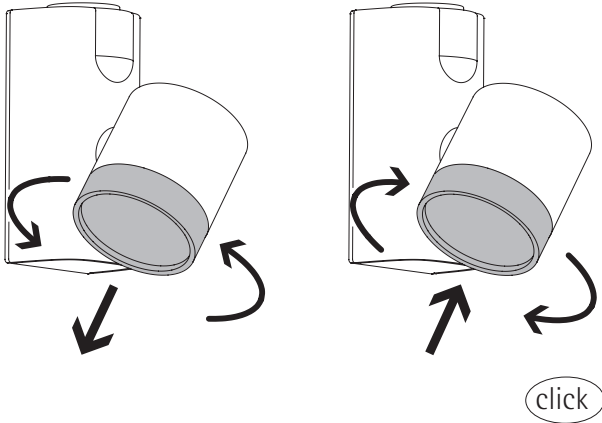
Optional



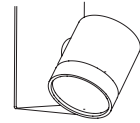
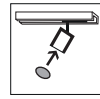
Accessories



Lens Unit



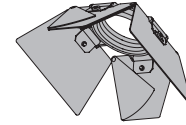
Accessories



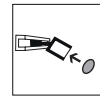
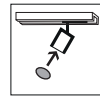
Lens



Maximum 3 pieces!  
No filter!



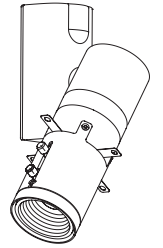
Glare protection  
(Snoot or honeycomb  
or barndoors)



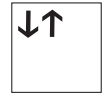
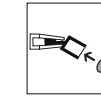
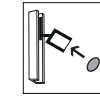
Accessories



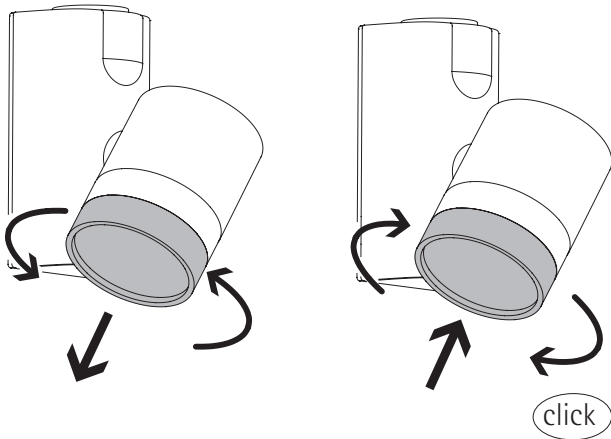
Framing



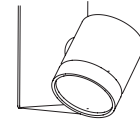
No filter



Accessories



Zoom



Lens unit zoom

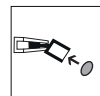
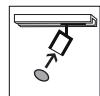


Maximum 3 pieces!  
No filter!



Lens

Glare protection  
(Snoot or honeycomb  
or barndoors)



English

Follow all enclosed instructions during installation.

**Restrictions**

*On-board Dim*

Dimming with external dimmers is not possible.

**Contour spotlights**

For sharp edges you can fit the included aperture.