



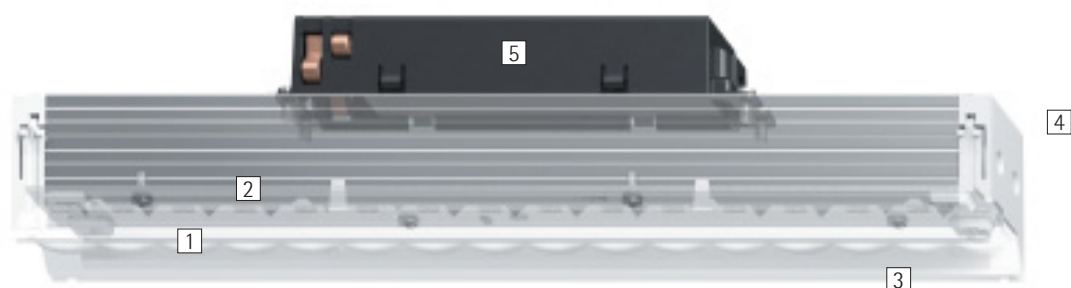
Invia 48V Light Structure – Drawing lines and illuminating spaces

Modular continuous row system with lens technology for all architectural lighting tasks

The Invia 48V continuous row lighting system draws lines that give rooms and spaces a sense of dynamism and emphasize their dimensions. Invia simultaneously offers fully-fledged architectural lighting with efficient and precise light distributions for room heights up to 26ft (8m): from linear wallwashers and downlights to spotlights on the Minirail 48V track insert and for projects ranging from public buildings and offices to museums. The system is suitable for

recessing, surface mounting and pendant mounting. Four conductors for 48V and the DALI control line are integrated in the basic profile. The luminaire inserts snap into place without tools to create uninterrupted light lines – even in corners and with wallwashers. Digital connectivity, upright inserts and tunable white make Invia ideal for Human Centric Lighting.

Invia 48V Light Structure



Structure and characteristics

The features described here are typical of products in this range. Special versions may offer additional or varying features. A comprehensive description of the features of individual products can be found on our website.

1 ERCO lens system (downlight)

- Made of optical polymer
- Light distributions: wide flood, extra wide flood or diffuse

or

Reflector (wallwasher)

- Aluminum, silver anodized, highly specular

or

Diffuser (uplight)

- Luminaire consists of 3 permanently connected units
- Polymer

2 ERCO LED module

- Mid-power LEDs: warm white (2700K or 3000K), neutral white (3500K or 4000K) or tunable white (2700-6000K)

3 Anti-glare cover

- Polymer
- Downlight: white (RAL9016) or black
- Wallwasher: white (RAL9002) or black

4 Housing

- Aluminum profile/polymer

5 Control gear

- Switchable or DALI dimmable
- Control with Casambi Bluetooth via accessories: please order Casambi DALI Gateway separately

6 Profile

- Aluminum profile, can be shortened on site
- Shapes: linear or corner
- 2 insulated copper conductors, 4.5mm². 1 circuit, max. 10A
- 2 insulated copper conductors, 4.5mm², for connection to DALI control line
- Underside: for accommodating luminaires
- Surface-mounted profile/pendant profile: white (RAL9002), black or silver powder-coated. Upper side for mounting to ceiling or for accommodating pendant accessories, uplights or connection cable
- Covered recessed profile: white (RAL9002) or black powder-coated, flanges for ceiling panels
- Flush recessed profile: mounting in drywall ceilings. Adjustable for ceiling thicknesses 12.5-25mm

Variants on request

- Profile: 10,000 further colors
- Please contact your ERCO consultant.



Design and application:
www.erco.com/invia-48V

Invia 48V Light Structure



Linear wallwashing

Linear Invia 48V wallwashers illuminate vertical surfaces extremely efficiently and with excellent uniformity, even around corners.



Various luminaire inserts

You can insert Invia 48V luminaires into the profile without tools. Downlights for various applications, an uplight and wallwashers with tunable white enable qualitative lighting concepts.



Tunable white technology

Just as the color temperature outdoors changes continuously during the day, the color temperature of the lighting can be adjusted indoors to e.g. support lighting concepts for Human Centric Lighting.



Integration of 48V spotlights

From accentuation with a 5° narrow spot to zoom optics and precise framing with tunable white and RGBW. By integrating Mini-rail 48V, you can use all ERCO 48V spotlights.

Special characteristics



Outstanding uniformity



Different light distributions



Tunable white



Integration of 48V spotlights



ERCO mid-power LEDs



Different light colors



Excellent thermal management



EMC-optimized



Various housing colors



Various construction sizes



Easy installation



Continuous line arrangements are possible



Switchable



DALI controllable

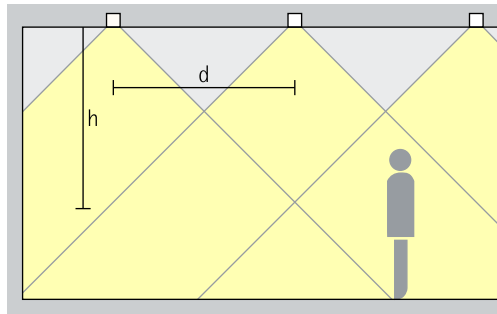


Casambi Bluetooth

Invia 48V Light Structure – Luminaire arrangement

Downlights

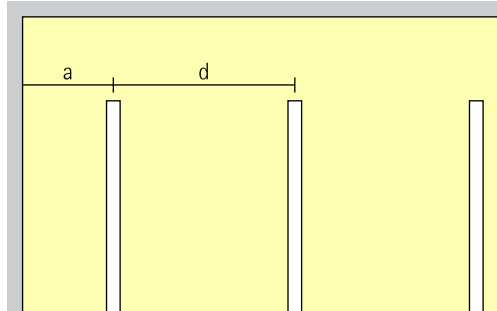
Wide flood, Extra wide flood, Diffuse



General lighting

For uniform general lighting with high visual comfort, the luminaire spacing (d) between two linear Invia 48V downlights may be up to 1.5 times the height (h) of the luminaire above the working plane (rough guide).

Arrangement: $d \leq 1.5 \times h$

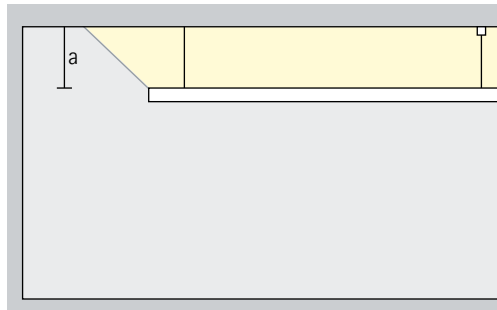


The wall offset should be half the luminaire spacing.

Arrangement: $a = d / 2$

Uplights

Diffuse



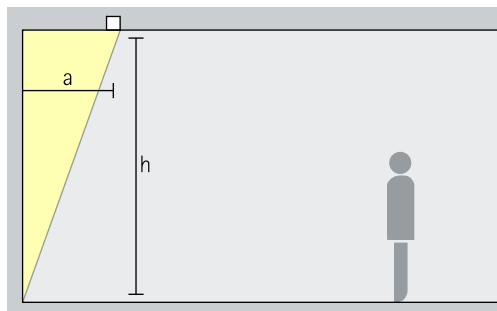
General lighting

Indirect lighting on bright ceilings increases the visual comfort due to diffusely reflected light. The room also appears to be higher. The profile should be suspended from a height of at least 0.5m.

Arrangement: $a \geq 0.5\text{m}$

Wallwasher

Wallwash



Wallwashing

For uniform vertical lighting, the distance to the wall (a) of linear Invia 48V wallwashers should be at least one third of the room height (h).

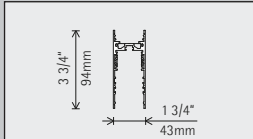
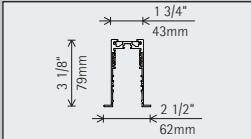













Arrangement: $a = 0,4 \times h$







Optimal wall distances for individual products are specified in the wallwasher tables.

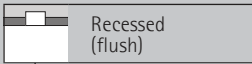
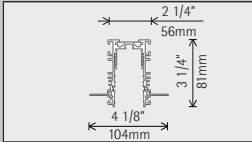
Invia 48V flexible
in museums
and galleries.
Visualization:
Electric Gobo



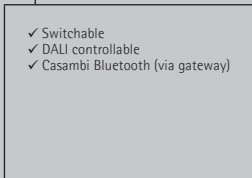
Invia 48V light structure

Profile										
Type of mounting	<table><tr><td></td><td>Surface-mounted</td></tr><tr><td></td><td>Pendant (via accessories)</td></tr></table>			Surface-mounted		Pendant (via accessories)	<table><tr><td></td><td>Recessed (covered)</td></tr></table>			Recessed (covered)
	Surface-mounted									
	Pendant (via accessories)									
	Recessed (covered)									
Length	11 13/16" corner	Special length *								
	70 7/8"									
Control	<table><tr><td colspan="4"><ul style="list-style-type: none">✓ Switchable✓ DALI controllable✓ Casambi Bluetooth (via gateway)</td></tr></table>				<ul style="list-style-type: none">✓ Switchable✓ DALI controllable✓ Casambi Bluetooth (via gateway)					
<ul style="list-style-type: none">✓ Switchable✓ DALI controllable✓ Casambi Bluetooth (via gateway)										
Color (housing)		White		Silver						
		Black		10,000 colors *						

Accessories		Mounting kit for Minirail		Suspensions		Power supply units
		Electrical connectors		Mounting devices		Casambi DALI gateway



11 13/16" corner	Special length *
70 7/8"	



* available on request

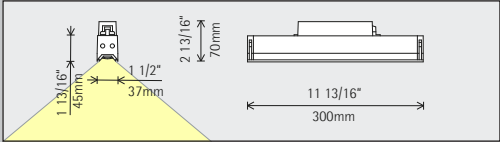
Article numbers and planning data:
www.erco.com/022544-us

Design and application:
www.erco.com/invia-48v/en_us



Invia 48V light structure

Size
(luminaire)



11 13/16"

LED module
Maximum value
with 4000K
CRI 82

3.9W/851lm	7.8W/1702lm (corner)
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5.2W/936lm	10.4W/1872lm (corner)
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Light colour

	2700K CRI 92		3500K CRI 92
	3000K CRI 82		4000K CRI 82
	3000K CRI 92		4000K CRI 92

	Tunable white
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Downlights	Wallwasher
Wide flood	Wallwash
Extra wide flood	
Diffuse	

Downlights	Wallwasher
Wide flood	Wallwash
Extra wide flood	
Diffuse	

Control

	Switchable
	DALI controllable
	Casambi Bluetooth + DALI via Gateway

	DALI controllable
	Casambi Bluetooth + DALI via Gateway

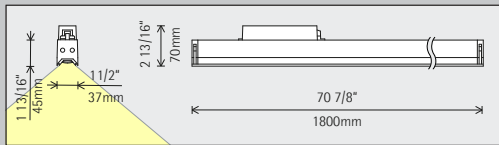
Color (anti-glare
cover)

	White
	Black

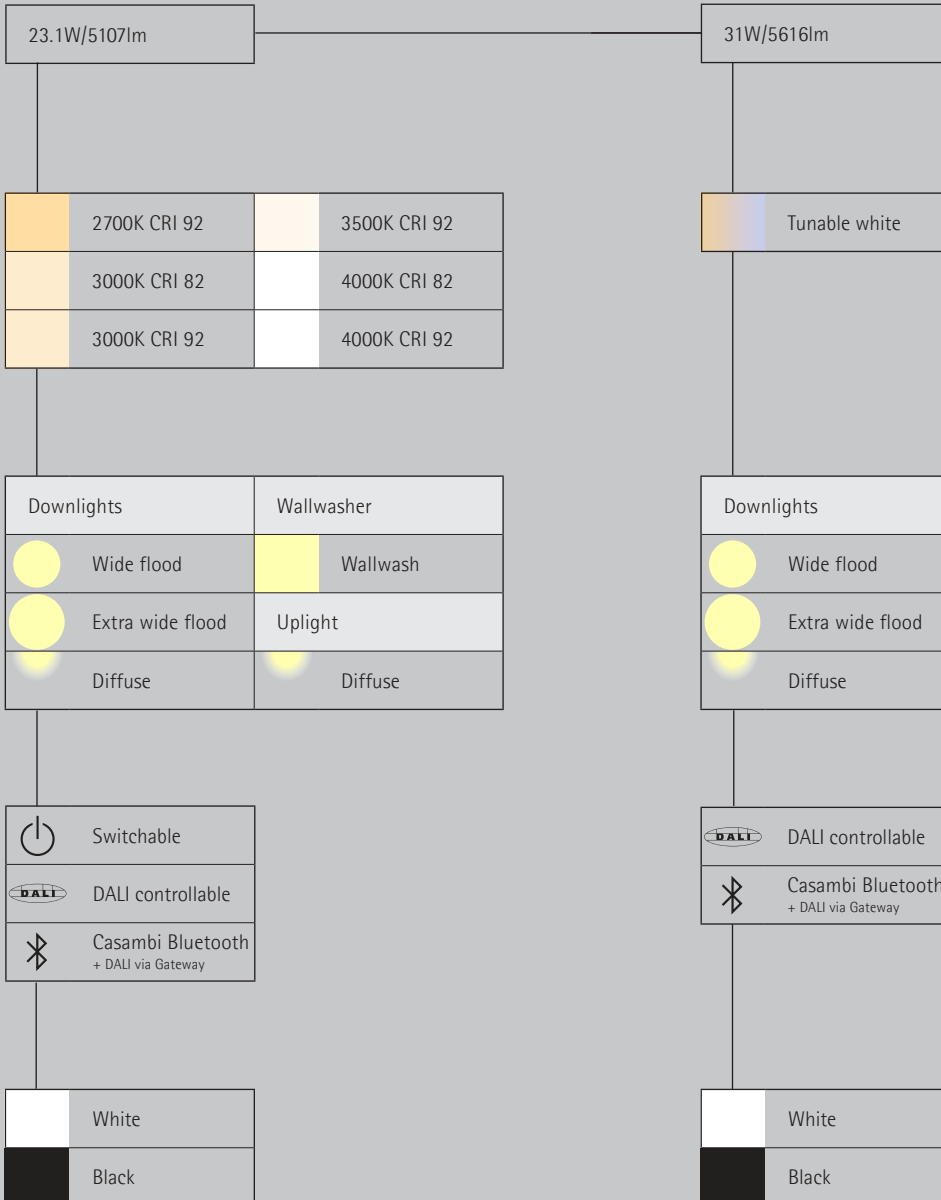
	White
	Black

Accessories

	Mounting kit for Minirail		Suspensions		Power supply units
	Electrical connec- tors		Mounting devices		Casambi DALI gate- way



70 7/8"



Article numbers and planning data:
www.erco.com/022544-us

Design and application:
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Invia 48V integrated in public buildings. Visualization: Electric Gobo

Invia 48V modular
in offices. Visual-
ization: Electric
Gobo





Cradle of Aviation
Museum, New
York. Lighting
design: Reed
Burkett Lighting
Design, St. Louis,
MO. Photography:
Studio SZ / Justin
Szeremeta.