



Atrium double focus – Sophisticated light for high rooms

The lighting tool for perfectly glare-free light from the ceiling

Atrium double focus downlights are especially suitable for high rooms thanks to their high luminous flux and specific light distributions. The lens systems consisting of a collimator and Spherolit lens generate narrow downlight distributions, or as wall-washers create efficient, precise and highly uniform vertical lighting even at small distances to the wall. The black anti-glare cone achieves a discreet appearance with all versions, and also minimises the glare for high visual comfort

when looking into the luminaire. Concentrated general lighting is thus created in low rooms. For rooms with inclined ceilings, a recessed version is available that compensates for inclination angles up to 30°. In-house developed control gear enables uniform operating behaviour of luminaire groups and dimming down to 1% – important for use as hall lighting in cinemas, theatres and concert auditoriums.

Atrium double focus Recessed luminaires



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 Spherolit lens

- Light distributions: flood, wide flood or wallwash

2 ERCO LED-module

- High-power LEDs: warm white (2700K or 3000K) or neutral white (3500K or 4000K)
- Collimating lens made of optical polymer

3 Anti-glare cone

- Optical cut-off 40°
- Black lacquered

or

Anti-glare ring (double-focus for inclined ceilings)

- Cast aluminium or polymer, external white, internal black

4 Mounting ring

- Covered mounting detail
- Fixing for ceiling thicknesses of 1-25mm (size 3-4) or 1-30mm (size 5-10)
- Polymer, white
- For flush mounting: mounting ring to be ordered separately, fixing for ceiling thicknesses of 12.5-25mm

5 Housing

- Cast aluminium, designed as heat sink
- Rotatable through 360°
- For inclined ceilings: 0°-30° tilt. Lockable angles of tilt and rotation

6 Control gear

- Switchable, phase dimmable, DALI dimmable or Casambi Bluetooth
- Phase dimmable version: Dimming with external dimmers possible (trailing edge)

Variants on request

- Anti-glare cone: coated matt gold, matt silver or matt champagne
 - Connection: 3- or 5-pole plug with connection cable (Wago or Wieland)
 - Mounting ring: 10,000 further colours
 - Ceiling channel system
- Please contact your ERCO consultant.



Design and application:
www.erco.com/atrium-df

Atrium double focus Recessed luminaires



Outstanding uniformity
To meet the stringent standards of vertical illuminance, ERCO has developed luminaires specifically to produce exceptionally uniform levels of illuminance.

Very high visual comfort
ERCO has developed luminaires with special housing designs and high quality optical components specifically for demanding visual tasks to provide enhanced visual comfort.

Wallwashing for high rooms
Multi-storey spaces pose specific lighting challenges. Previously, wallwashers had to be mounted in very high-ceilinged rooms at a disproportionately great distance from the wall; however, the ideal position for the recently developed Atrium double-focus wallwashers is now at a distance of only one fifth of the height of the room.



Also suitable for sloping ceilings
As variants with a pivot angle of up to 30°, double focus downlights can also be mounted in sloping ceilings.

Covered or flush mounting detail
As standard, all recessed luminaires have overlapping installation details. Flush mounting rings are available as accessories.

Special characteristics	
	Excellent visual comfort
	Outstanding uniformity
	Wallwashing for high rooms
	For inclined ceilings
	Flush or covered mounting detail

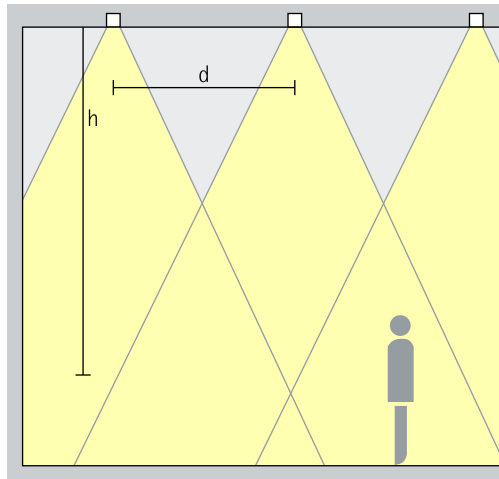
	ERCO high-power LEDs
	Efficient Spherolit technology
	Optical cut-off 40°
	Different light colours

	Excellent thermal management
	EMC-optimised
	Various construction sizes
	Lockable
	Tool-free mounting

	Switchable
	Phase dimmable
	DALI dimmable
	Casambi Bluetooth

Atrium double focus Recessed luminaires – Luminaire arrangement

Downlights Flood, Wide flood

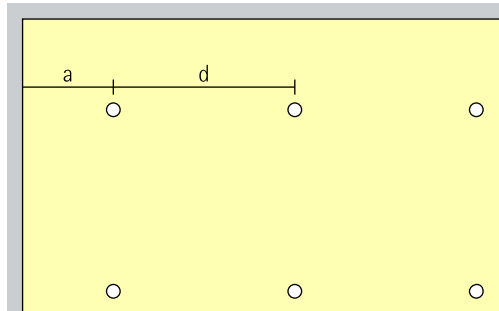


General lighting

For uniform general lighting, the luminaire spacing (d) between two Atrium double focus downlights can be half the height (h) of the luminaire above the working plane (rough guide).

Arrangement: $d = h / 2$

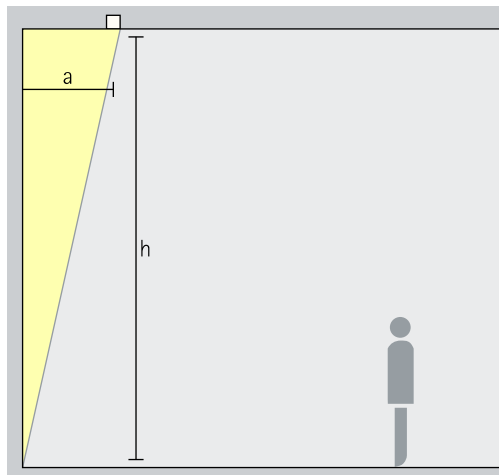
Application area: rooms with high ceilings, e.g. foyers or event halls.



The wall offset should be half the luminaire spacing.

Arrangement: $a = d / 2$

Lens wallwashers Wallwash

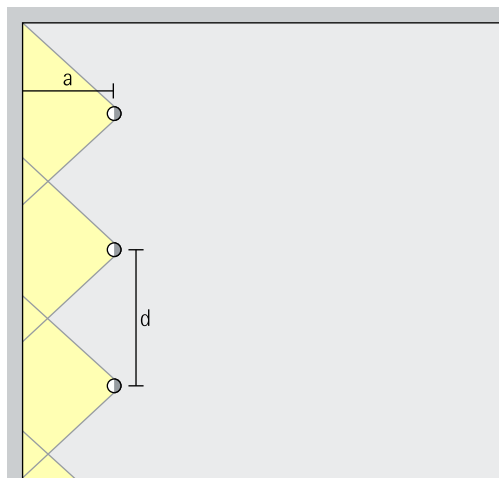


Wallwashing

Atrium double-focus wallwashers enable uniform illumination of high walls. The ideal spacing to the wall (a) is a fifth of the room height (h).

Arrangement: $a = 1/5 \times h$

Application area: positioned close to the wall, these luminaires are ideal for atriums and foyers with room heights above 6m, but work just as well in rooms with lower ceilings.



For wallwashing with good and uniform horizontal illuminance, the spacing (d) of double-focus wallwashers may be up to 1.3 times the offset from the wall (a).

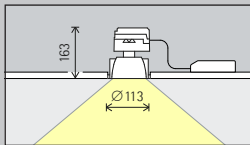
Arrangement: $d \leq a \times 1.3$

Tessmar recording studio, Hanover. Lighting design: PFE – planning company for electrical engineering, Hanover. Erich Rusch, Elektrotechnische Anlagen GmbH, Hanover. Photography: Sebastian Mayer, Berlin.

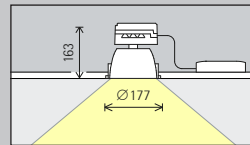


Atrium double focus Recessed luminaires

Construction size



Size 3



Size 5

LED module
Maximum value
at 4000K CRI 82

6W/825lm
10W/1230lm

18W/2475lm
28W/3690lm

Light colour

	2700K CRI 92		3500K CRI 92
	3000K CRI 92		4000K CRI 82
	3000K CRI 97		4000K CRI 92

	2700K CRI 92		3500K CRI 92
	3000K CRI 92		4000K CRI 82
	3000K CRI 97		4000K CRI 92

Light distribution

Downlights		Lens wallwashers	
	Flood		Wallwash
	Wide flood		

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	Flood		Wallwash
	Wide flood		

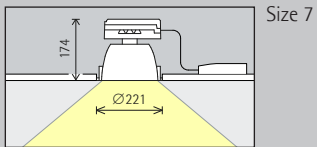
Control

	Switchable		DALI
	Phase dimmable		Casambi Bluetooth

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Accessories

	Concrete mounting enclosure		Spacer plate		Compensation set
	Mounting ring		Mounting plate for panelled ceilings		Cover ring



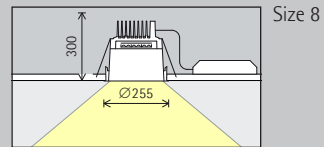
Size 7

24W/3300lm
38W/4920lm

	2700K CRI 92		3500K CRI 92
	3000K CRI 92		4000K CRI 82
	3000K CRI 97		4000K CRI 92

Downlights		Lens wallwashers	
	Flood		Wallwash
	Wide flood		

	Switchable		DALI
	Phase dimmable		Casambi Bluetooth



Size 8

48W/6390lm
76W/8990lm

	2700K CRI 92		3500K CRI 92
	3000K CRI 92		4000K CRI 82
	3000K CRI 97		4000K CRI 92

Downlights	
	Flood
	Wide flood

	Switchable
	DALI

* available on request

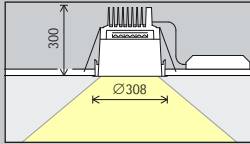
Article numbers and planning data:
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Design and application:
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Atrium double focus Recessed luminaires

Construction size



Size 10

LED module Maximum value at 4000K CRI 82

72W/9580lm
114W/13480lm

Light colour

	2700K CRI 92		3500K CRI 92
	3000K CRI 92		4000K CRI 82
	3000K CRI 97		4000K CRI 92

Light distribution

Downlights	
	Flood
	Wide flood

Control

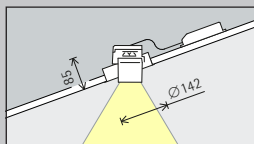
	Switchable
	DALI

Accessories

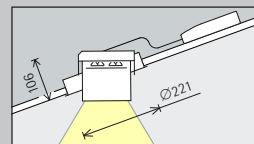
	Concrete mounting enclosure		Mounting plate for panelled ceilings
	Mounting ring		Compensation set
	Spacer plate		Cover ring

Atrium double focus Recessed luminaires

Construction size



Size 2



Size 4

LED module
Maximum value
at 4000K CRI 82

6W/825lm
10W/1230lm

24W/3300lm
38W/4920lm

Light colour

	2700K CRI 92		3500K CRI 92
	3000K CRI 92		4000K CRI 82
	3000K CRI 97		4000K CRI 92

	2700K CRI 92		3500K CRI 92
	3000K CRI 92		4000K CRI 82
	3000K CRI 97		4000K CRI 92

Light distribution

Downlights	
	Flood
	Wide flood

Downlights	
	Flood
	Wide flood

Control

	Switchable		DALI
	Phase dimmable		Casambi Bluetooth

	Switchable		DALI
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