



Atrium double focus – Sophisticated light for high rooms

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

Atrium double focus downlights are particularly suitable for use in high rooms. The lens systems generate narrow downlight distributions or, as wallwashers, create uniform vertical illumination, even at low distances to the wall. The black anti-glare cone minimizes luminance levels when looking into the luminaire for high visual comfort. The silver anti-glare cone is ideal for elegant integration in bright ceilings. For inclined ceilings, a recessed version is available that

compensates for inclination angles up to 30°.

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° from horizontal
- Black or matt silver coated

or

Anti-glare ring (double focus for sloping ceilings)

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

6 Control gear

- Switchable, trailing edge dimmable or 0-10V dimmable

Trailing edge dimmable version:

- Operation at 120V: Dimming with external dimmers possible

Variants on request

- Anti-glare cone: coated matt gold or matt champagne
 - Mounting ring: 10,000 further colors
 - Control: Lutron
- Please contact your ERCO consultant.



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

Atrium double focus Recessed luminaires



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.



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



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

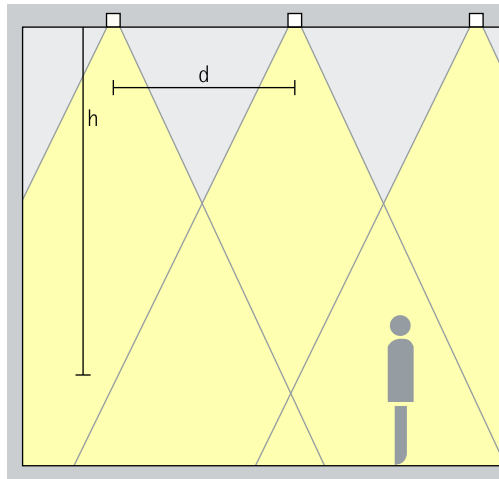
	ERCO high-power LEDs
	Efficient Spherolit technology
	Optical cut-off 40° from horizontal
	Different light colors

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

	Switchable
	Trailing edge dimmable
	0-10V dimmable

Atrium double focus Recessed luminaires – Luminaire arrangement

Downlights Flood, Wide flood

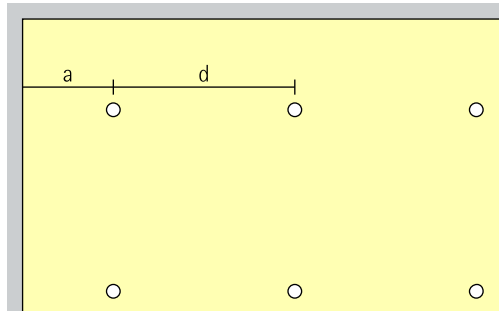


General lighting

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: $d = h / 2$

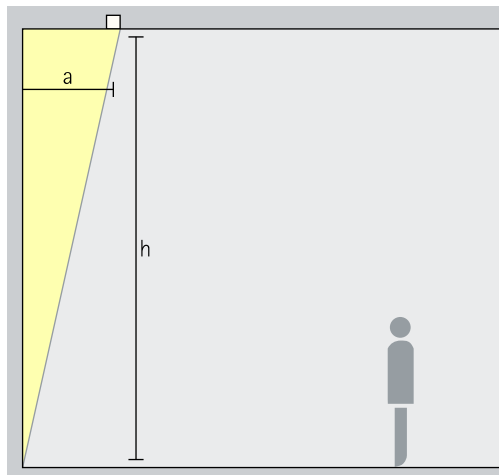
Application area: rooms with high ceilings, e.g. foyers or event halls.



The wall offset should be half the luminaire spacing.

Arrangement: $a = d / 2$

Lens wallwashers Wallwash

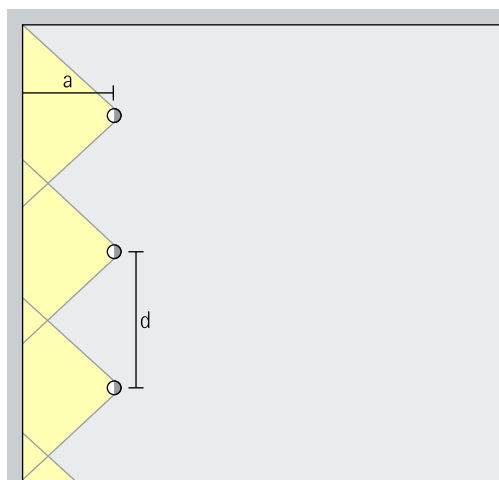


Wallwashing

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).

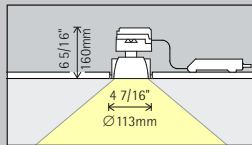
Arrangement: $d \leq a \times 1.3$

Music Theatre,
Linz. Architecture:
Terry Pawson,
London. Lighting
design: Kress Et
Adams Atelier
für Tages- und
Kunstlichtplanung,
Köln. Photogra-
phy: Gustavo
Allidi Bernasconi.

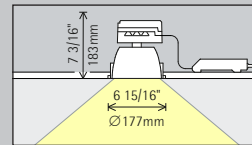


Atrium double focus Recessed luminaires

Construction size



Size 3



Size 5

LED module
Maximum value at 4000K CRI 82

6.1W/786lm
9.3W/1107lm

18,2W/2358lm
28W/3320lm

Light color

	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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Control

	Switchable
	Trailing edge dimmable
0-10V	0-10V

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0-10V	0-10V

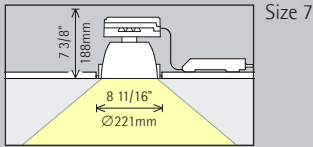
Colour (anti-glare cone)

	Silver matt
	Black
	10,000 colors *

	Silver matt
	Black
	10,000 colors *







Accessories




	Junction box		Mounting ring
	Flexible metal conduit		Cover ring
	Plaster frame		
	Ultra airtight I.C. box		








Size 7

24.3W/3144lm
37.3W/4427lm

	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
	Trailing edge dimmable
0-10V	0-10V

	Silver matt
	Black
	10,000 colors *

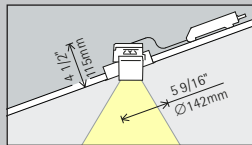
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Design and application:
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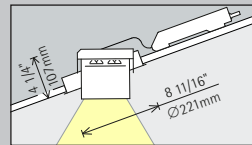


Atrium double focus Recessed luminaires

Construction size



Size 4



Size 7

LED module

Maximum value at 4000K CRI 82

6.1W/786lm
9.3W/1107lm

24.3W/3144lm
37.3W/4427lm

Light color

	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

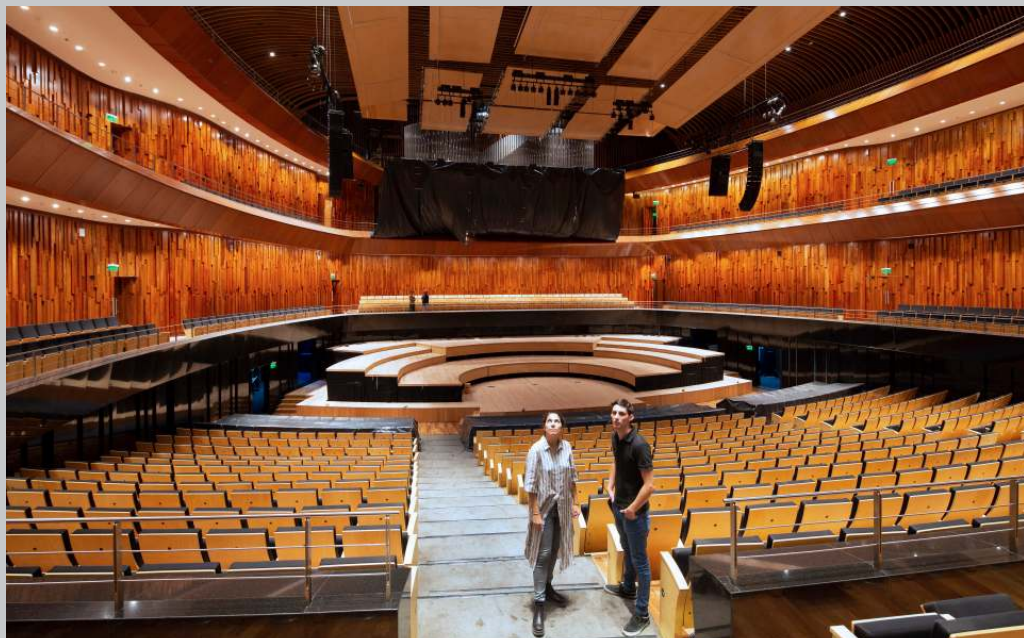
Control

	Switchable
	Trailing edge dimmable
0-10V	0-10V

	Switchable
	Trailing edge dimmable
0-10V	0-10V

Accessories

	Junction box		Mounting ring
	Flexible metal conduit		Cover ring
	Plaster frame		
	Ultra airtight I.C. box		



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Buenos Aires.
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Photography:
Edgar Zippel,
Berlin.

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Zell am See. Archi-
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Opera, Ham-
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design: ITGT
Ingenieurteam
Elektrotechnik
GmbH & Co. KG,
Kiel Interior. Pho-
tography: Frieder
Blickle.





Hengdian
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Hangzhou. Archi-
tecture: gmp
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Hamburg. Inter-
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Shanghai. Lighting
design: Shang-
hai Zen Lighting
Design Engi-
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Shanghai. Photo-
graphy: StudioSZ
Photo / Justin
Szeremeta.