



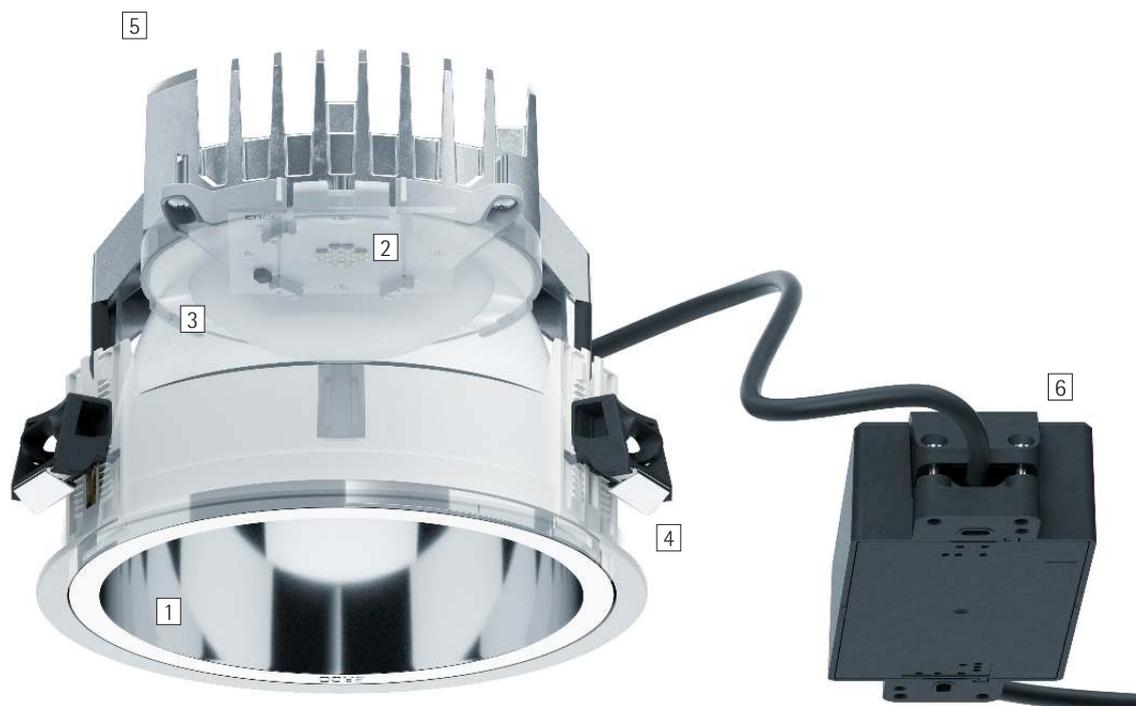
## Quintessence round – The system solution for excellent visual comfort

### **Large luminaire spacing, high uniformity and excellent visual comfort**

Quintessence sets standards in terms of visual comfort, efficiency and quality of light for recessed luminaires. The product range consists of downlights, lens wallwashers and directional spotlights. Characteristics of Quintessence downlights and lens wallwashers are their good glare control and high uniformity of illumination. The 90° beam angle and a 40° cut-off allow wide luminaire spacing for efficient general lighting. Tunable white enables flexible control

of colour temperature – ideal for Human Centric Lighting in modern work and cultural spaces.

## Quintessence round 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 darklight reflector

- Downlight: cut-off angle 40°
- Polymer, aluminium vaporised, mirror-finish

or

#### Wallwasher reflector

- Cut-off angle 80°
- Polymer, aluminium vaporised, mirror-finish

#### 2 ERCO LED-module

- High-power LEDs or Chip-on-board LEDs: warm white (2700K or 3000K), neutral white (3500K or 4000K) or tunable white (2700-6500K)
- Directional luminaire with collimating lens made of optical polymer

#### 3 Diffuser or lens

- Made of optical polymer
- Diffuser lens, wide flood, extra wide flood or lens system, wallwash
- Directional luminaire with Spherolit lens narrow spot, spot or flood

#### 4 Mounting ring

- Covered mounting detail
- Fixing for ceiling thicknesses of 1-25mm (size 3-4) or 1-30mm (size 5-7)
- 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°
- Fixing ring: polymer, black
- Fixing of the beam direction
- Directional luminaire: 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

- Reflector: 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
- Please contact your ERCO consultant.



Design and application:  
[www.erco.com/quintessence-round](http://www.erco.com/quintessence-round)

# Quintessence round Recessed luminaires



**Very high visual comfort**  
The darklight reflector combines maximum visual comfort with an optimum light output ratio.



**Tunable white technology**  
Just as the colour temperature outdoors changes continuously during the day, the colour temperature of indirect lighting can be adjusted indoors to e.g. support lighting concepts for Human Centric Lighting.



**Suitable for office workstations**  
ERCO develops luminaires with the specifications of good glare control and high visual comfort. UGR values are used as support for purely norm-referenced lighting. With downlights though this should not be carried out using 'blanket' values, but should be implemented according to the individual arrangement of luminaires in the room.



**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
	Tunable white
	Suitable for office workstations
	Flush or covered mounting detail

	ERCO High-power LEDs / ERCO Chip-on-Board LEDs
	Efficient Spherolit technology
	Different light distributions
	Cut-off 40°/80°
	Different light colours

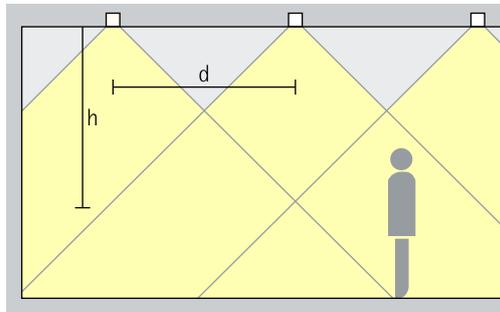
	Excellent thermal management
	EMC-optimised
	Various construction sizes
	Lockable
	Tool-free mounting

	Switchable
	Phase dimmable
	DALI dimmable
	Casambi Bluetooth

## Quintessence round Recessed luminaires – Luminaire arrangement

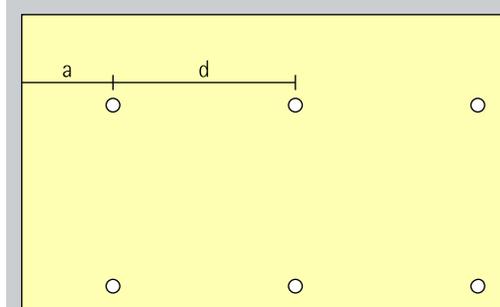
### Downlights

Wide flood, Extra wide flood



For uniform ambient lighting with high visual comfort, the spacing (d) between two Quintessence downlights may be up to approximately 1.5 times the height (h) of the luminaire above the working plane.

Arrangement:  $d \leq 1.5 \times h$

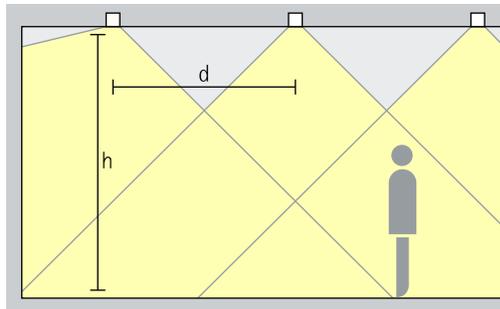


The wall offset should be half the luminaire spacing.

Arrangement:  $a = d / 2$

### Downlight Wallwashers

Downlight wallwash



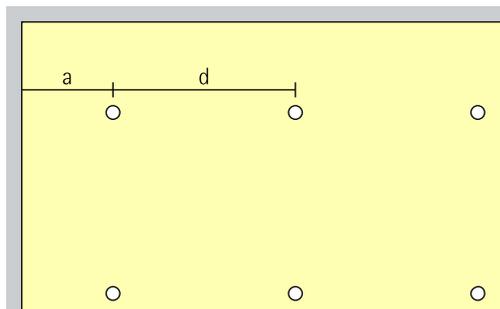
Downlight wallwashers have an asymmetrical light distribution that directs light not only vertically downwards but also directly onto vertical surfaces. They are used to achieve uniform illumination of wall surfaces in addition to the horizontal lighting component.

For uniform ambient lighting, the approximate spacing (d) between two Quintessence downlight wallwashers may be up to 1.5 times the mounting height (h) of the luminaire above the working plane.

Arrangement:  $d \leq 1.5 \times h$

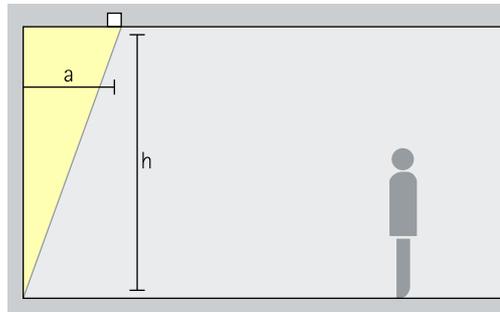
For uniform wallwashing, a wall offset (a) of 0.5 of the luminaire spacing (d) is recommended.

Arrangement:  $a = d / 2$



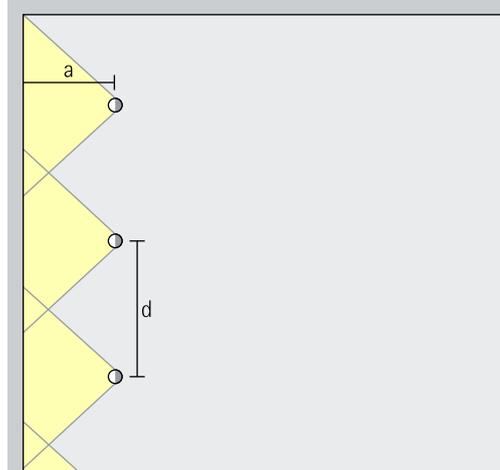
# Quintessence round Recessed luminaires – Luminaire arrangement

## Lens wallwashers Wallwash



For uniform vertical illuminance, the distance (a) of Quintessence lens wallwashers from the wall should be around one third of the room height (h).

Arrangement:  $a = 1/3 \times h$

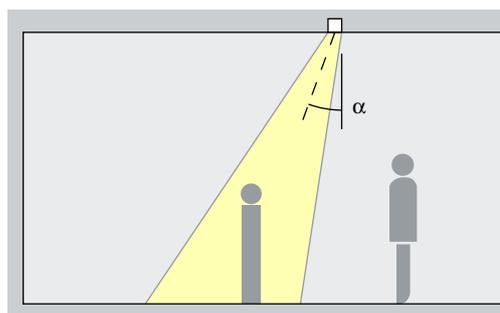


For good longitudinal uniformity, the spacing (d) of Quintessence lens wallwashers may be up to 1.3 times the offset from the wall (a).

Arrangement:  $d \leq 1.3 \times a$

The optimal wall offset and luminaire spacing for each product are indicated in the wallwasher tables in the catalogue and the product data sheets.

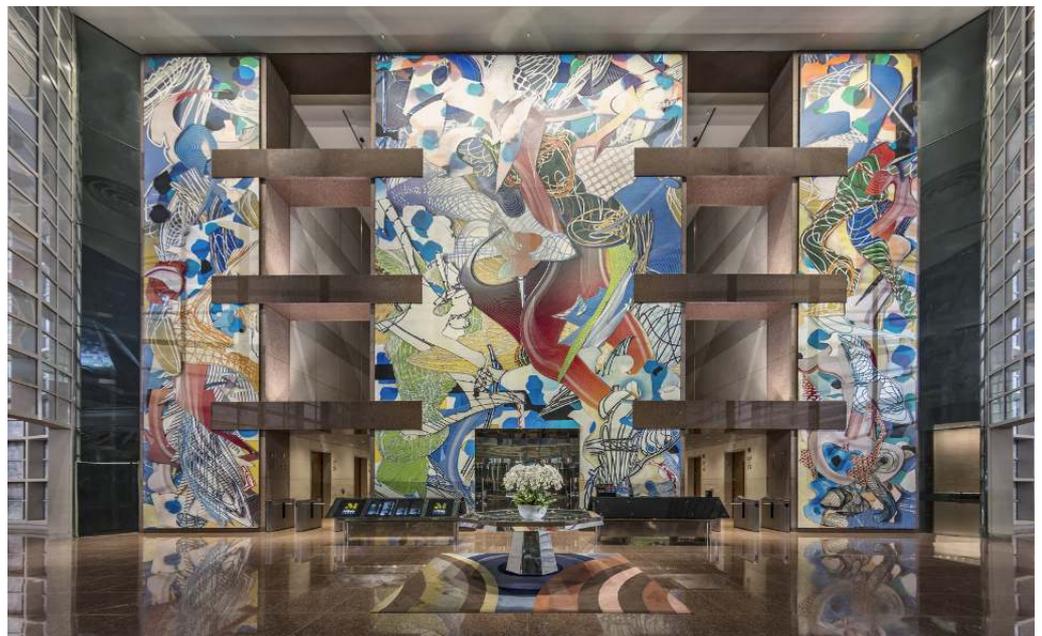
## Directional luminaires Narrow spot, Spot, Flood



Quintessence directional luminaires accentuate artwork, products and architectural details effectively. The ideal angle of tilt ( $\alpha$ ) for this is around 30°. The object is modelled without distorting the effect as a result of excessive shadowing. It also prevents shadows cast by the observer.

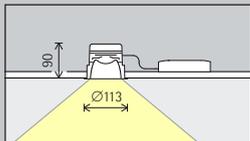
Arrangement:  $\alpha = 30^\circ$

Millenia Tower, Singapore. Architecture: Kevin Roche. Lighting design: Nipek, Singapur; Million Lighting, Singapore. Photography: Kawana Masano.



# Quintessence round Recessed luminaires

Construction size



Size 3

LED module  
Maximum value at 4000K CRI 92

12.1W/2131lm	2W/287lm (Narrow spot)	11.5W/1360lm
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Light colour

	2700K CRI 92		3500K CRI 92		Tunable white
	3000K CRI 92		4000K CRI 92		
	3000K CRI 97				

Light distribution

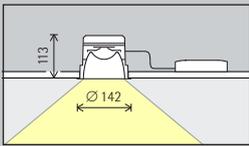
Downlights		Directional luminaires		Downlights		Lens wallwashers	
	Wide flood		Narrow spot			Wallwash	
	Extra wide flood		Spot				
	Lens wallwashers		Flood				
	Wallwash						

Control

	Switchable		DALI		DALI
	Phase dimmable		Casambi Bluetooth		Casambi Bluetooth

Accessories

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



Size 4



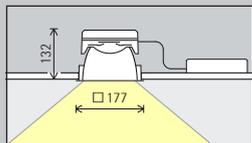
\* available on request

[www.erco.com/quintessence-round](http://www.erco.com/quintessence-round)



# Quintessence round Recessed luminaires

Construction size



Size 5

LED module  
Maximum value at 4000K CRI 92

24.2W/4882lm	6.1W/862lm (Narrow spot)	23.9W/2560lm
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Light colour

2700K CRI 92	3500K CRI 92	Tunable white
3000K CRI 92	4000K CRI 92	
3000K CRI 97		

Light distribution

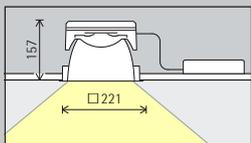
Downlights		Directional luminaires		Downlights		Downlight Wallwashers	
	Wide flood		Narrow spot		Wide flood		Downlight wall-wash
	Extra wide flood		Spot		Extra wide flood		Lens wallwashers
	Lens wallwashers		Flood				Wallwash
	Wallwash						

Control

	Switchable		DALI		DALI
	Phase dimmable		Casambi Bluetooth		Casambi Bluetooth

Accessories

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



Size 7

32.3W/4595lm	8.1W/1149lm (Narrow spot)
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	2700K CRI 92		3500K CRI 92
	3000K CRI 92		4000K CRI 92
	3000K CRI 97		

Downlights	Directional luminaires
 Wide flood	 Narrow spot
 Extra wide flood	 Spot
Lens wallwashers	 Flood
 Wallwash	

 Switchable	 DALI
 Phase dimmable	 Casambi Bluetooth

\* available on request

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Hemerycksalen  
at the Louis de  
Geer Concert  
and Congress  
Centre, Nor-  
rköping. Lighting  
design: Ram-  
boll. Installation:  
Bravida. Photogra-  
phy: Johan Elm,  
Stockholm.

China Design  
Museum, Hang-  
zhou. Architecture:  
Alvaro Siza, Porto.  
Photography:  
Jackie Chan,  
Sydney.





More than a  
downlight: for  
maximum design  
freedom. Visual-  
isation: Electric  
Gobo