



Quadra – Efficient and architectonic

The tool for special lighting tasks. Quadra enhances architecture

Architecture must inspire, and Quadra is a great tool with this in mind. Its simple elegance in combination with innovative and highly efficient photometrics makes this a valuable tool in modern lighting design. A particularly shallow recess depth and very efficient visual comfort suggest Quadra for administrative buildings and offices as well as for sales areas and private homes.

Its extra wide flood and oval flood light distributions enable broad

use for efficient ambient lighting – even in refurbishment and renovation projects. Thanks to its geometric shape, Quadra also excels at wallwashing with large axial spacing without disturbing light emitted towards the room – all the while boasting a high luminaire efficiency rating.



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

- Made of optical polymer
- Light distributions: extra wide flood, oval flood, wallwash or double wallwash

2 ERCO LED-module

- High-power LED: warm white (2700K or 3000K) or neutral white (3500K or 4000K)

3 Anti-glare frame with cross baffle

- Optical cut-off 30°
- Polymer, aluminium vaporised, silver, ribbed

or

Wallwasher reflector

- Optical cut-off 40°
- Metal, aluminium vaporised, silver, ribbed, with diffuser on the underside

4 Mounting frame

- Covered mounting detail
- Fixing for ceiling thicknesses of 1-30mm
- Polymer, white
- For flush mounting: mounting frame to be ordered separately, fixing for ceiling thicknesses of 12.5-25mm

5 Housing

- Cast aluminium, designed as heat sink

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

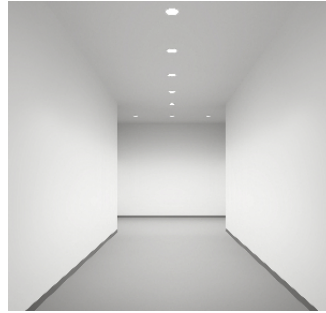


Design and application:
www.erco.com/quadra

Quadra Recessed luminaires



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.



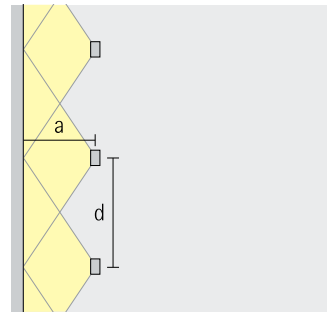
Double wallwasher
 The special light distribution of the double wallwashers efficiently illuminates the opposite walls of corridors. The diffuse, reflected light from the walls also illuminates the floor and ceiling.



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



Shallow recess depth
 In compact installation situations, every millimetre is decisive with the recess depth of a luminaire. ERCO has thus developed special luminaires for shallow recess depths that guarantee very good quality of light even in very tight installation conditions.



Wide luminaire spacing with wallwashing
 Efficient ERCO photometrics allow certain luminaires to be spaced unusually far apart at up to 1.5 times the distance to wall.

Special characteristics	
	For office workstation lighting from UGR 11.1
	Double wallwasher
	Flush or covered mounting detail
	Shallow recess depth
	Wide luminaire spacing with wallwashing

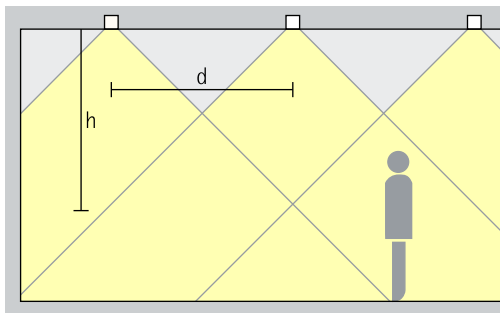
	ERCO high-power LEDs
	Efficient lens system
	Optical cut-off 30°/40°
	Different light colours

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

	Switchable
	Phase dimmable
	DALI dimmable
	Casambi Bluetooth

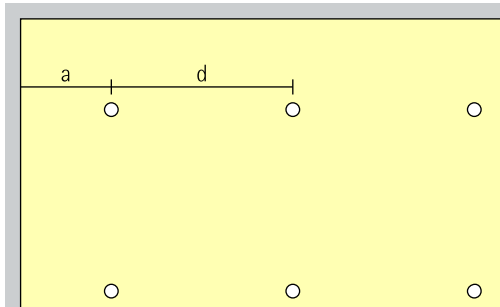
Quadra Recessed luminaires – Luminaire arrangement

Downlights Extra wide flood



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

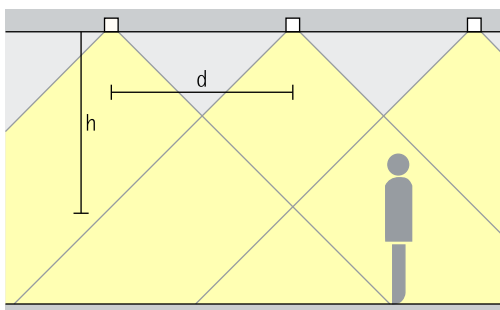
Arrangement: $d \leq 1.5 \times h$



The wall offset should be half the luminaire spacing.

Arrangement: $a = d / 2$

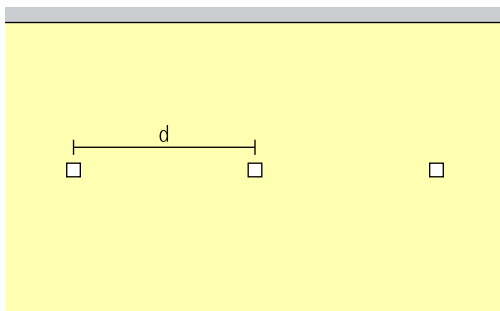
Downlights oval flood Oval flood



Linear lighting
For uniform lighting with luminaires arranged in a line, the spacing (d) between two Quadra downlights may be up to approximately 1.5 times the height (h) of the luminaire above the working plane.

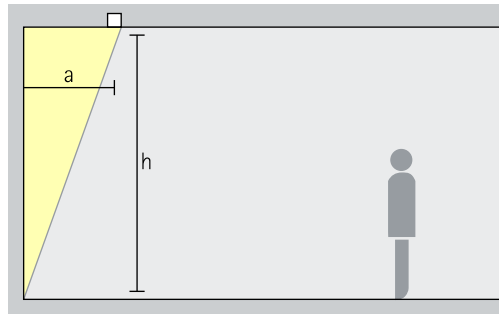
Arrangement: $d \leq 1.5 \times h$

Application: halls and corridors as well as above tables.



Quadra Recessed luminaires – Luminaire arrangement

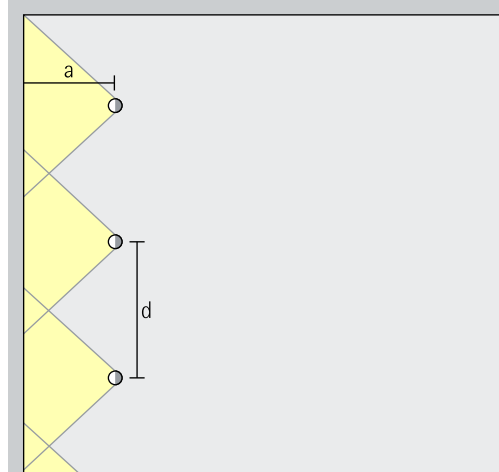
Lens wallwashers Wallwash



Wallwashing

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

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

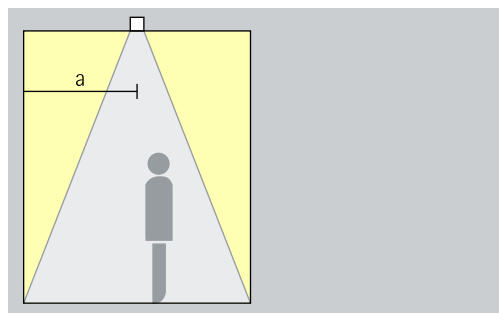


For good longitudinal uniformity, the spacing (d) of Quadra lens wallwashers may be up to 1.3 times the offset from the wall (a).

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.

Double wallwashers Double wallwash

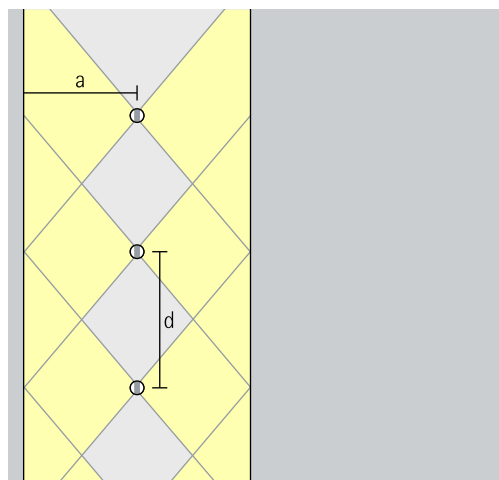


Wallwashing

For uniform vertical illuminance on parallel walls, the distance (a) of Quadra double wallwashers from the wall on either side should be around one third of the room height (h). The luminaires should always be positioned along the central axis between the walls.

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

Application: corridors, e.g. in administration buildings or health facilities.



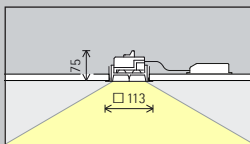
For good longitudinal uniformity, the spacing (d) of Quadra lens wallwashers may be up to 1.3 times the offset from the wall (a).

Arrangement: $d \leq 1.3 \times a$

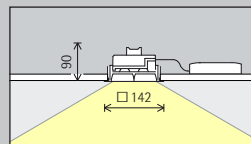
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Quadra Recessed luminaires

Construction size



Size 3



Size 4

LED module
Maximum value at 4000K CRI 82

8W/1100lm

16W/2200lm

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	
	Extra wide flood		Wallwash
Downlights oval flood			
	Oval flood		

Downlights		Lens wallwashers	
	Extra wide flood		Wallwash
Downlights oval flood		Double wallwashers	
	Oval flood		Double Wallwash

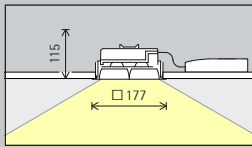
Control

	Switchable		DALI
	Phase dimmable		Casambi Bluetooth

	Switchable		DALI
	Phase dimmable		Casambi Bluetooth

Accessories

	Concrete mounting enclosure		Mounting frame, 2x		Mounting plate for panelled ceilings
	Mounting frame		Spacer plate		Cover frame



Size 5

24W/3300lm

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

Downlights		Lens wallwashers	
	Extra wide flood		Wallwash
Downlights oval flood		Double wallwashers	
	Oval flood		Double Wallwash

	Switchable		DALI
	Phase dimmable		Casambi Bluetooth

Article numbers and planning data:
www.erco.com/013749

Design and application:
www.erco.com/quadra



