Kona – Maximum visual comfort for a wide range of lighting tasks

High luminous flux and maximum visual comfort for lighting tasks in the outdoor area
Kona is suitable for illuminating large buildings and objects. The round, conically-shaped luminaire housing provides outstanding visual comfort with very good shielding properties. From focused lighting from a long distance to floodlighting and uniform wall-washing: all is possible. Its high luminous flux makes Kona an ideal lighting tool for large projection distances. The maintenance-free, durable optoelectronics reduce operating costs and also enable operation in difficult-to-access installation locations. The weather-resistant housing can be precisely aligned thanks to a pan-and-tilt mounting plate. Extensive mounting accessories allow Kona to be installed flexibly.

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: narrow spot, spot, flood, wide flood, extra wide flood, oval flood or wallwash
- Oval flood 360° rotation
- Narrow spot, spot and flood: cut-off angle 30°

2 ERCO LED-module
- High-power LED: warm white (3000K) or neutral white (4000K)
- Collimating lens made of optical polymer

3 Housing
- Graphit m
- Corrosion-resistant cast aluminium, No-Rinse surface treatment
- Double powder-coated
- Optimised surface for reduced accumulation of dirt
- Anti-glare cone: polymer, black lacquered
- Safety glass

4 Control gear
- Switchable, phase dimmable+On-board Dim or DALI dimmable
- Phase dimmable + On-board Dim version: Dimming with external dimmers (trailing edge) possible and rotary control for brightness control on the luminaire

5 Mounting plate and hinge
- Corrosion-resistant cast aluminium, No-Rinse surface treatment or polymer
- Graphite m, double powder-coated or coated
- 90° tilt, 300° rotation or 120° tilt, 360° rotation
- Internal wiring

Protection mode IP65
Dust-tight and water jet-proof

Variants on request
- High-power LEDs: 3000K CRI 97 or 2700K, 3500K, 4000K with CRI 92
- Housing: 10,000 further colours

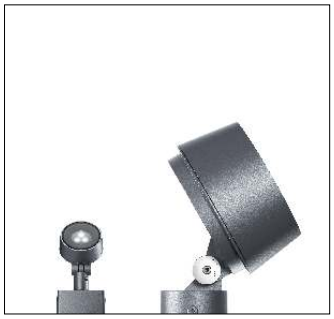
Please contact your ERCO consultant.

Design and application:
www.erco.com/kona

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

Large lumen packages for very high illuminances
The attention of the viewer can be focused via contrasting accents. ERCO offers high-performance luminaires with large lumen packages for this purpose.

Oval flood freely rotatable
The oval flood Spherolit lens can be freely rotated with round luminaire heads to optimally match the lighting to various objects.



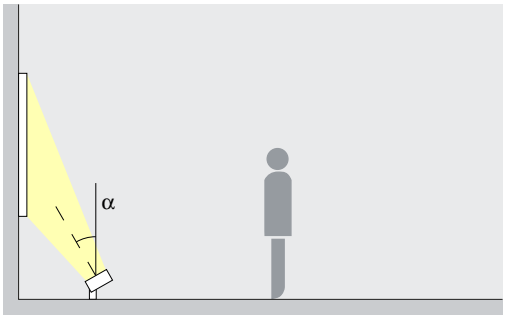
Various construction sizes
The luminaires in the ERCO product range cover a wide variety of lumen categories and therefore offer an appropriate solution for a large number of lighting tasks.

Special characteristics

- Improved visual comfort
- Large lumen packages for very high illuminances
- Oval flood, freely rotatable
- Various construction sizes
- ERCO high-power LEDs
- Efficient Spherolit technology
- Different light distributions
- Different light colours
- Excellent thermal management
- EMC-optimised
- Degree scale for good adjustability
- Pivotable through 90° Lockable
- IP65 Protection mode IP65
- Accessory for mounting variants
- Switchable
- Phase dimmable + On-board Dim
- DALI dimmable

Kona Projectors – Luminaire arrangement

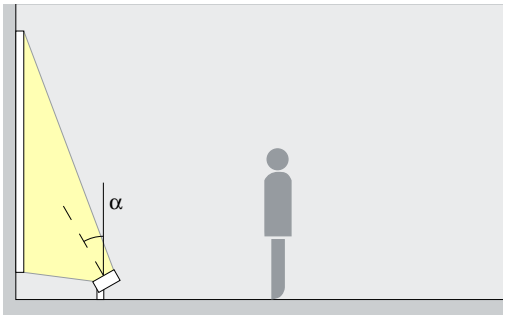
Projectors
Narrow spot, Spot, Flood



Accentuation
The ideal angle of tilt (α) for accent lighting with Kona projectors is around 30°. This emphasises the three-dimensionality of architectural details, sculptures or trees, without distorting the spatial impression with excessive shadowing.

Arrangement: α = 30°

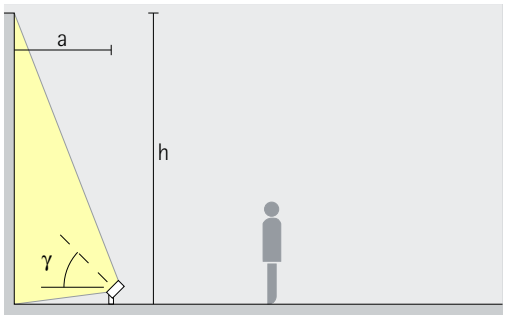
Floodlights
Wide flood, Extra wide flood, Oval flood



Washlighting
Kona projectors ensure uniform floodlighting of long wall surfaces, columns or trees. The ideal angle of tilt (α) for this is around 30°

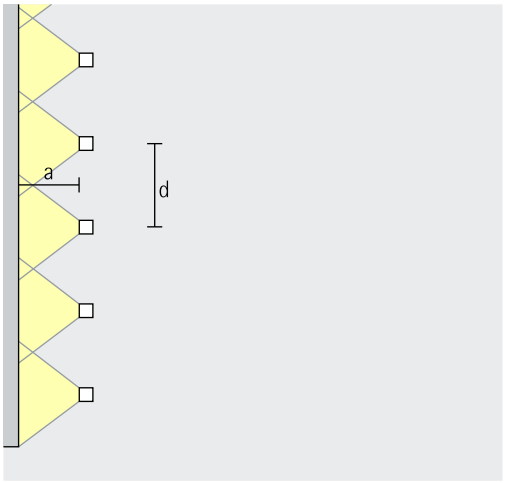
Arrangement: α = 30°

Lens wallwashers
Wallwash



Wallwashing
Uniform vertical illuminance in the outdoor area defines spatial borders. Here, the distance (a) of Kona lens wallwashers from the wall should be around one third of the room height (h). This results in an angle of tilt (γ) of approx. 55°.

Arrangement: a = 1/3 x h or
γ = 55°

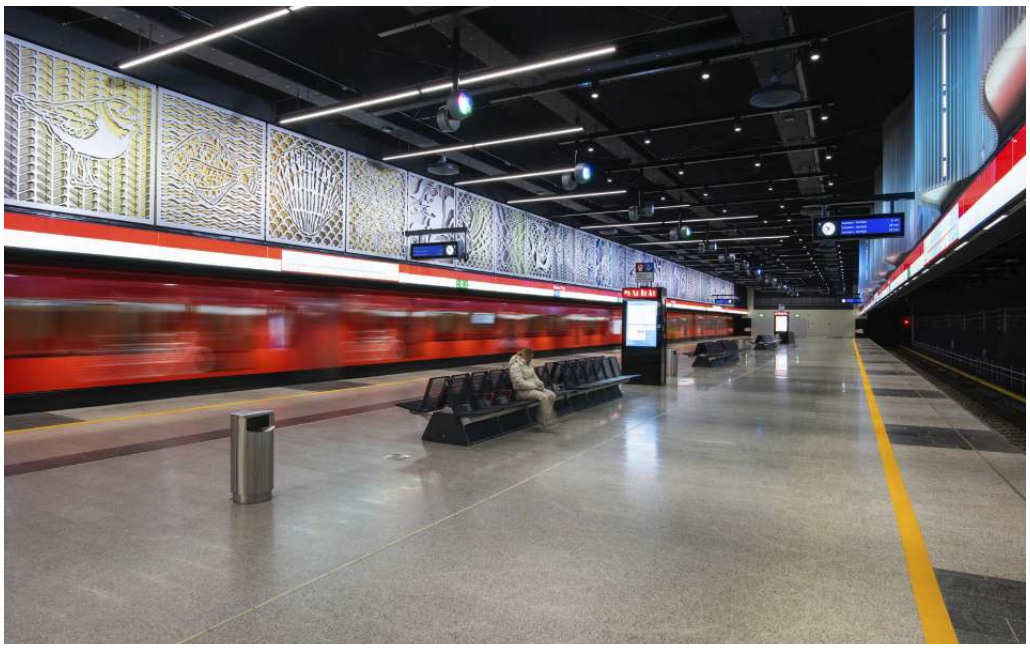


For good longitudinal uniformity, the spacing (d) of Kona lens wallwashers may be up to 1.2 times the offset from the wall (a).

Arrangement: d ≤ 1.2 x a

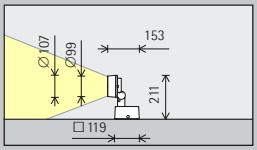
The optimal wall offset and luminaire spacing for each product are indicated in the wallwasher tables in the catalogue and the product data sheets.

Metro stations, Helsinki. Photography: Johan Elm.

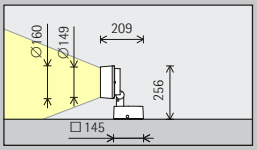


Kona Projectors

Construction size



∅ 107mm



∅ 160mm

LED module
Maximum value at 4000K CRI 82

6.1W/786lm	2W/262lm (Narrow spot)

12.1W/1572lm	8.1W/1048lm (Narrow spot)
18.8W/2540lm	
24.3W/3144lm	

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

Projectors	Floodlights
Narrow spot	Wide flood
Spot	Extra wide flood
Flood	Oval flood
	Lens wallwashers
	Wallwash

Projectors	Floodlights
Narrow spot	Wide flood
Spot	Extra wide flood
Flood	Oval flood
	Lens wallwashers
	Wallwash

Control

Switchable
Phase dimmable + On-board Dim
DALI

Switchable
Phase dimmable + On-board Dim
DALI

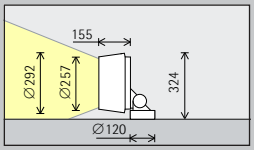
Colour (housing)

Graphit m
10,000 colours *

Graphit m
10,000 colours *

Accessories

Distribution box	Mounting plate	Adapter piece
Ground spike	Cantilever arm	Spacer
Anchorage unit	Attachment	
Concrete anchor	Clamping plate	



Ø 292mm

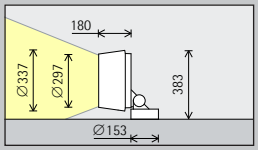
48.5W/6288lm	18.2W/2358lm (Narrow spot)

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

Projectors	Floodlights
Narrow spot	Wide flood
Spot	Extra wide flood
Flood	Oval flood
	Lens wallwashers
	Wallwash

Switchable	
DALI	

	Graphit m
	10,000 colours *



Ø 337mm

72.8W/9432lm	32.3W/4192lm (Narrow spot)

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

Projectors	Floodlights
Narrow spot	Wide flood
Spot	Extra wide flood
Flood	Oval flood
	Lens wallwashers
	Wallwash

Switchable	
DALI	

	Graphit m
	10,000 colours *

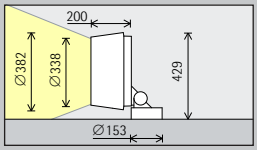
* available on request

Article numbers and planning data:
www.erco.com/015663

Design and application:
www.erco.com/kona

Kona Projectors

Construction size



∅ 382mm

LED module
Maximum value at 4000K CRI 82

97W/12576lm	42.4W/5502lm (Narrow spot)

Light colour

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

Light distribution

Projectors	Floodlights
Narrow spot	Wide flood
Spot	Extra wide flood
Flood	Oval flood
	Lens wallwashers
	Wallwash

Control

Switchable
DALI

Colour (housing)

Graphit m
10,000 colours *

Accessories

Distribution box	Mounting plate
Ground spike	Cantilever arm
Anchorage unit	Attachment
Concrete anchor	Clamping plate
Adapter piece	Spacer

The Central Mall, Shanghai. Architecture: East China Architectural Design Institute, Shanghai Zhang Ming Architectural Design Institute & CallisonRTKL. Lighting design: Shanghai New Century Lighting Co., Ltd. Photography: Jackie Chan, Sydney.

* available on request

Article numbers and planning data:
www.erco.com/015663

Design and application:
www.erco.com/kona

Wijnhuistoren, Zutphen. Lighting design: Studio DL, Hildesheim. Photography: Thomas Mayer, Neuss.

Pinacoteca Brera, Milan. Lighting design: Alessandra Quarto, Angelo Rossi, Milan. Electrical engineering: Protec. Photography: ERCO