

# Lightscan – Radiance in digital form

## **Lightscan for sophisticated lighting tasks in outdoor areas**

Lightscan sets accents in outdoor lighting. High luminous fluxes enable the illumination of buildings, walls and objects even if they are very high or if there are only a few possibilities for floodlight mounting positions. Different distributions ensure that the light only reaches where it is needed. Lightscan is extremely weatherproof and blends harmoniously into its surroundings with its slender silhouette. With its mounting accessories Lightscan is predestined for different requirements within the application. The

maintenance-free optoelectronics protect resources thanks to their high efficiency and also reduce operating costs.





## 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

### 2 ERCO LED-module

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

### 3 Housing

- Graphite m
- Corrosion-resistant cast aluminium, No-Rinse surface treatment
- Double powder-coated
- Optimised surface for reduced accumulation of dirt
- Cover frame: powder-coated black
- Safety glass

### 4 Control gear

- Switchable, phase dimmable+On-board Dim, DALI dimmable or Casambi Bluetooth
- 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° or 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/lightscan](http://www.erco.com/lightscan)

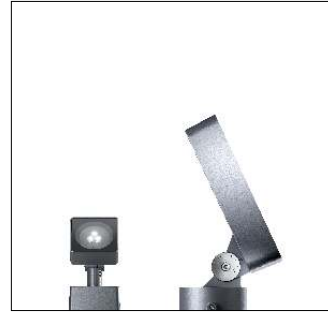
# Lightscan Projectors



**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 round oval flood Spherolit lens can be freely rotated with all luminaires to optimally align the light 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**

-  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

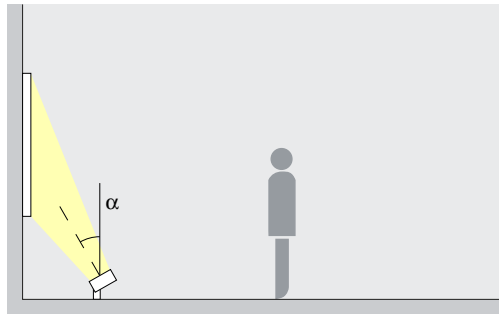
-  Excellent thermal management
-  EMC-optimised
-  Degree scale for good adjustability
-  Pivotal through 90° Lockable
-  Protection mode IP65
-  Accessory for mounting variants

-  Switchable
-  Phase dimmable + On-board Dim
-  DALI dimmable
-  Casambi Bluetooth

# Lightscan Projectors – Luminaire arrangement

## Projectors

Narrow spot, Spot, Flood



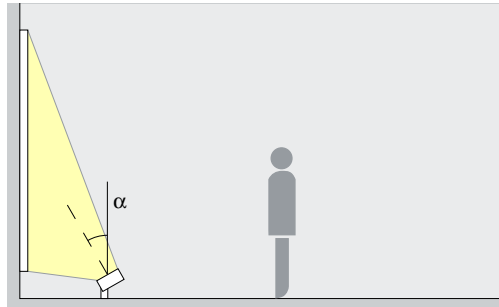
## Accentuation

The ideal angle of tilt ( $\alpha$ ) for accent lighting with Lightscan projectors is around  $30^\circ$ . This emphasises the three-dimensionality of architectural details, sculptures or trees, without distorting the spatial impression with excessive shadowing.

Arrangement:  $\alpha = 30^\circ$

## Floodlights

Wide flood, Extra wide flood, Oval flood



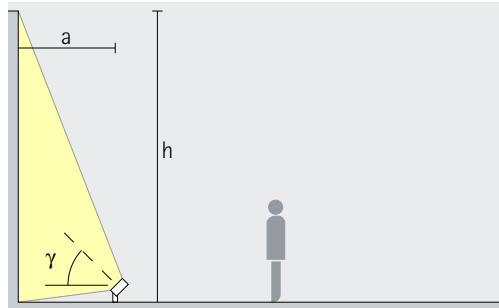
## Washlighting

Lightscan projectors ensure uniform floodlighting of long wall surfaces, columns or trees. The ideal angle of tilt ( $\alpha$ ) for this is around  $30^\circ$

Arrangement:  $\alpha = 30^\circ$

## Lens wallwashers

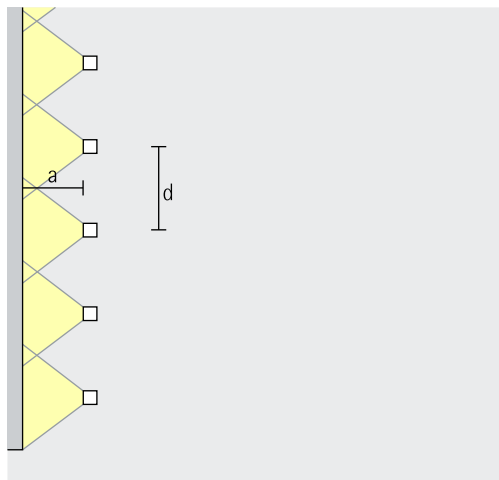
Wallwash



## Wallwashing

Uniform vertical illuminance in the outdoor area defines spatial borders. Here, the distance ( $a$ ) of Lightscan lens wallwashers from the wall should be around one third of the room height ( $h$ ). This results in an angle of tilt ( $\gamma$ ) of approx.  $55^\circ$ .

Arrangement:  $a = 1/3 \times h$  or  $\gamma = 55^\circ$



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

Arrangement:  $d \leq 1.2 \times a$

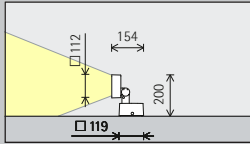
The optimal wall offset and luminaire spacing for each product are indicated in the wallwasher tables in the catalogue and the product data sheets.

Exergi Power Station, Stockholm.  
Architecture:  
Urban design,  
Stockholm. Photography: Johan  
Elm, Stockholm.

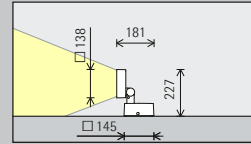


# Lightscan Projectors

Construction size



112mm



138mm

LED module  
Maximum value at 4000K CRI 82

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

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Control

	Switchable		DALI
	Phase dimmable + On-board Dim		Casambi Bluetooth

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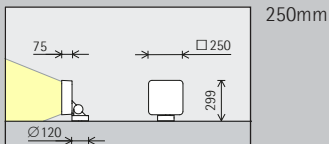
Colour (housing)

	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		



48.5W/6288lm	18.2W/2358lm (Narrow spot)
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	2700K CRI 92 *		3500K CRI 92 *
	3000K CRI 92		4000K CRI 82
	3000K CRI 97 *		4000K CRI 92 *

Projectors	Floodlights
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	Switchable
	DALI

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\* available on request

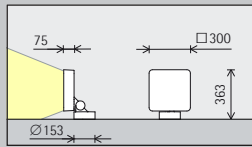
Article numbers and planning data:  
[www.erco.com/014700](http://www.erco.com/014700)

Design and application:  
[www.erco.com/lightscan](http://www.erco.com/lightscan)

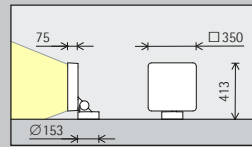


# Lightscan Projectors

## Construction size



300mm



350mm

## LED module Maximum value at 4000K CRI 82

72.8W/9432lm	32.3W/4192lm (Narrow spot)
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97W/12576lm	42.4W/5502lm (Narrow spot)
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## 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
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## Control

	Switchable
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## Colour (housing)

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Fori Imperiali,  
Rome. Lighting  
design: Vittorio  
Storaro, Rome;  
Francesca Storaro,  
Castel Gandolfo.  
Photography:  
Vittorio Storaro,  
Rome / Castel  
Gandolfo.

\* available on request

Article numbers and planning data:  
[www.erco.com/014700](http://www.erco.com/014700)

Design and application:  
[www.erco.com/lightscan](http://www.erco.com/lightscan)





Incheon International Airport Terminal 2. Architecture: Heerim Architects & Planners, Seoul. Lighting design: P2LEDcube, Seoul. Photography: Jackie Chan, Sydney.

Kingsford Smith  
International  
Airport T1, Sydney.  
Architecture:  
Hassell Architects.  
Photography:  
Jackie Chan,  
Sydney.

