

# Lightscan – Radiance in digital form

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

Lightscan lends a new flair to outdoor lighting, yet cuts an equally fine figure indoors where applications call for a higher protection mode. Elegant look and highly efficient photometrics join to form a perfect symbiosis. Its high levels of luminous flux enable the illumination of buildings, walls or objects even where these are exceptionally tall or offer few options to position the projectors. A wide range of light distributions ensures that the light is projected only where it's needed.

Lightscan is exceptionally weather-resistant, as its slim silhouette blends harmoniously with the surroundings. Its flush cover glass as a contributing factor looks the part, elegantly providing reliable protection, but is also most easy to clean. An extensive range of mounting hardware means the Lightscan effortlessly fulfils different requirements of its environment making it a versatile tool in lighting design. Maintenance-free optoelectronics guarantee maximum efficiency to help save our resources and result in lower 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 LEDs: warm white (3000K), neutral white (4000K) or RGBW
- Collimating lens made of optical polymer
- RGBW with highly reflective colour mixer

### 3 Housing

- Graphit 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 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° 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, floodlights, wallwashers



**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.



**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.



**Coloured light**  
Using coloured light, the environment can be designed and transformed with either subtle or dramatic contrasts. LEDs enable you to generate coloured light very efficiently and flexibly.



**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



Coloured light



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



Protection mode IP65



Accessory for mounting variants



Switchable



Phase dimmable +  
On-board Dim

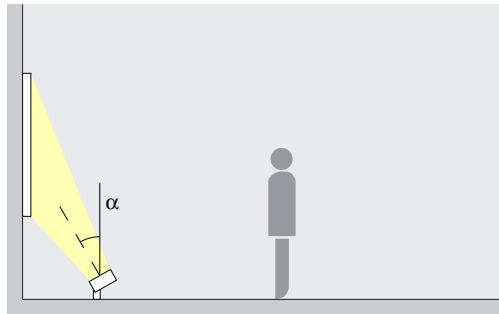


DALI dimmable

# Lightscan Projectors, floodlights, wallwashers – Luminaire arrangement

## Projectors

Narrow spot, Spot, Flood



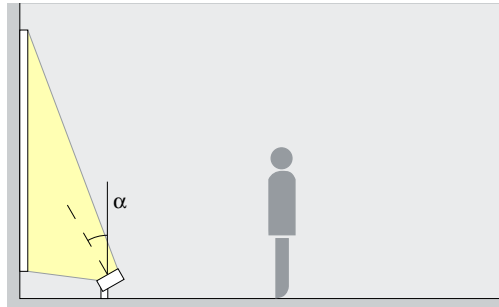
## Accentuation

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



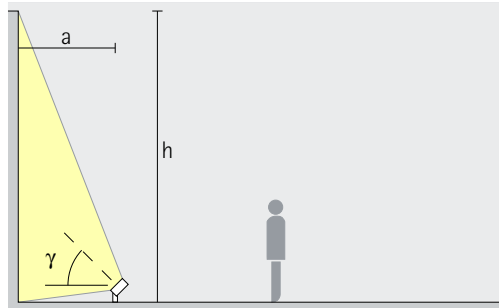
## Washlighting

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

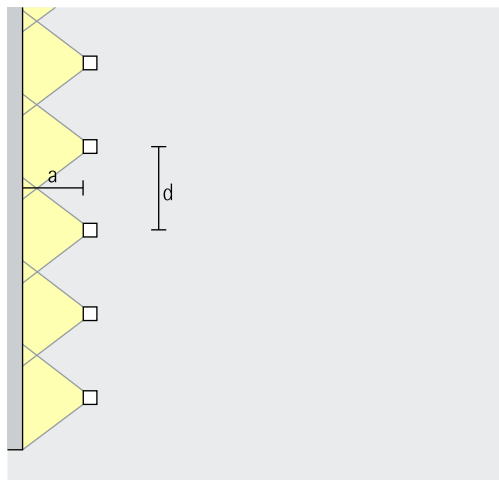
Wallwash



## 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:  $d \leq 1.2 \times a$

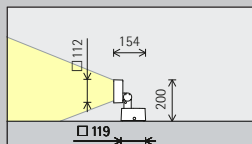
The optimal wall offset and luminaire spacing for each product are indicated in the wallwasher tables in the catalogue and the product data sheets.

Cutty Sark,  
National Maritime  
Museum, London.  
Photography:  
Gavriil Papadiotis,  
London.

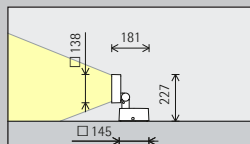


# Lightscan Projectors, floodlights, wallwasher

## Construction size



112mm



138mm

## LED module Maximum value at 4000K CRI 82

6W/825lm	2W/275lm (Narrow spot)
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12W/1650lm	8W/1100lm (Narrow spot)
19W/2700lm	
24W/3300lm	

## 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 *
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	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
	Phase dimmable + On-board Dim
	DALI

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	DALI

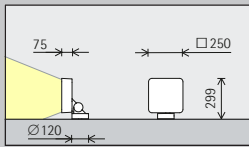
## Colour (housing)

	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		



250mm

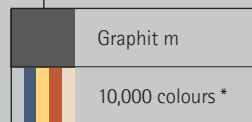
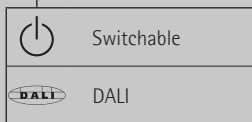


	2700K CRI 92 *		3500K CRI 92 *
	3000K CRI 92		4000K CRI 82
	3000K CRI 97 *		4000K CRI 92 *



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\* available on request

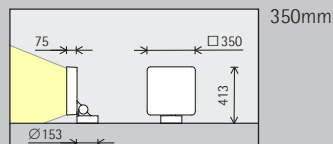
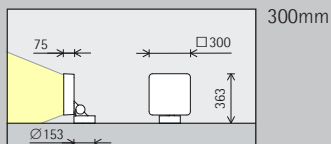
Article numbers and planning data:  
[www.erco.com/014700](http://www.erco.com/014700)

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



# Lightscan Projectors, floodlights, wallwasher

## Construction size



## LED module Maximum value at 4000K CRI 82

72W/9900lm	32W/4400lm (Narrow spot)
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96W/13200lm	42W/5775lm (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

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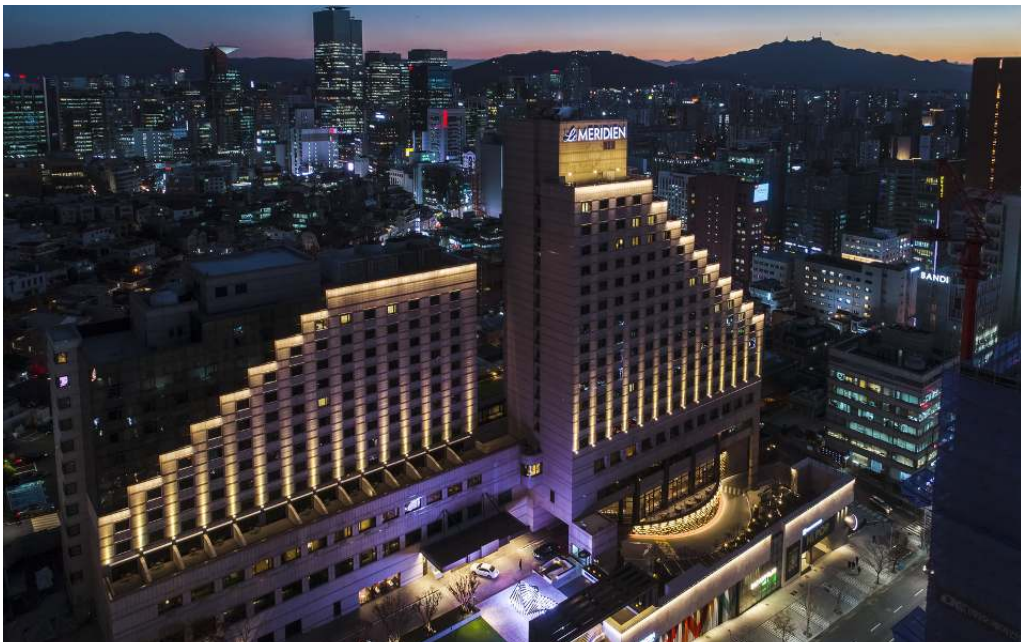
Fori Imperiali,  
Rome. Lighting  
design: Vittorio  
Storaro, Rome;  
Francesca Storaro,  
Castel Gandolfo.  
Photography:  
Vittorio Storaro,  
Rome / Castel  
Gandolfo.

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Hotel Le Méridien, Seoul. Interior design: David Collins Studio, London. Lighting design: Eon SLD, Seoul. Photography: Jackie Chan, Sydney.

Green Wall  
140 George Street,  
Sydney. Lighting  
design: Electro-  
light, Sydney.  
Photography:  
Jackie Chan,  
Sydney.



