

# 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 fulfills 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) or neutral white (4000K)
- Collimating lens made of optical polymer

### 3 Housing

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

### 4 Control gear

- Switchable or 0-10V dimmable

### 5 Mounting plate and hinge

- Corrosion-resistant cast aluminum, No-Rinse surface treatment or polymer
- Graphite m, double powder-coated or coated
- 90° tilt, 300° or 360° rotation
- Internal wiring

### Suitable for wet locations (IP65)

Dust-proof and water jet-proof

### Variants on request

- High-power LEDs: 3000K CRI 97 or 2700K, 3500K, 4000K with CRI 92
  - Housing: 10,000 further colors
- Please contact your ERCO consultant.



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

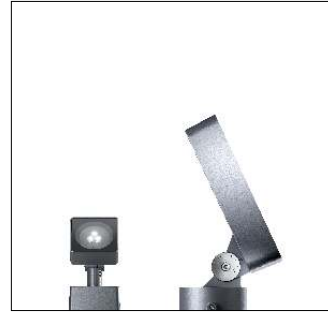
# Lightscan Projectors, floodlights, wallwashers



**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.











**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 colors

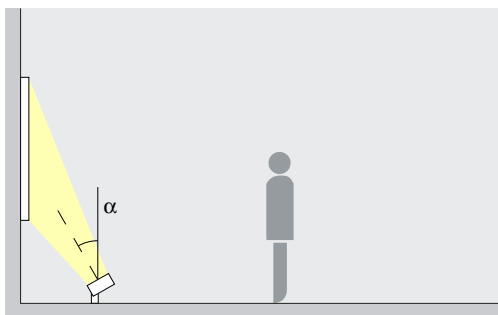
-  Excellent thermal management
-  EMC-optimized
-  Degree scale for good adjustability
-  Pivotable through 90° Lockable
-  Wet location
-  Accessory for mounting variants

-  Switchable
-  0-10V 0-10V dimmable

# Lightscan Projectors, floodlights, wallwashers – Luminaire arrangement

## Projectors

Narrow spot, Spot, Flood



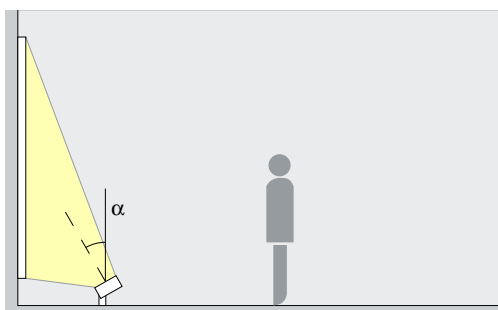
### Accentuation

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



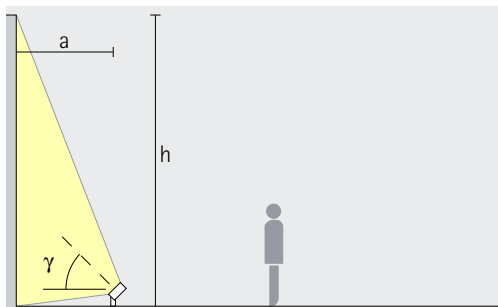
### Washlighting

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

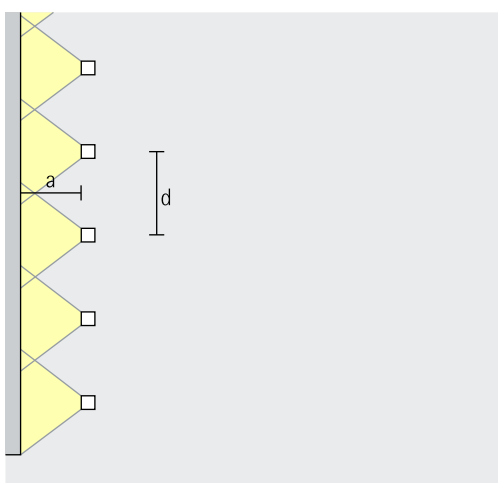
Wallwash



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

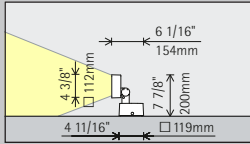
The optimal wall offset and luminaire spacing for each product are indicated in the wallwasher tables in the catalogue and the product data sheets.

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

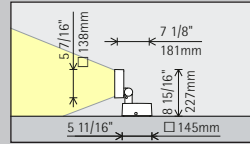


# Lightscan Projectors, floodlights, wallwasher

## Construction size



4 3/8"



5 7/16"

## 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/2460lm	
24W/3300lm	

## Light color

	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
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			Wallwash

## Control

	Switchable **
0-10V	0-10V

0-10V	0-10V
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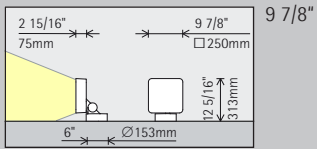
## Color (housing)

	Graphit m
	10,000 colors *

	Graphit m
	10,000 colors *

## Accessories

	Ground spike		Mounting plate		Clamping plate
	Ground socket		Cantilever arm		Adapter piece
	Concrete anchor		Attachment		Spacer



9 7/8"

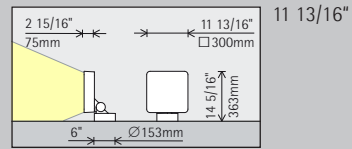
48W/6600lm	18W/2475lm (Narrow spot)
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	2700K CRI 92 *		3500K CRI 92 *
	3000K CRI 92		4000K CRI 82
	3000K CRI 97 *		4000K CRI 92 *

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

0-10V	0-10V
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	Graphit m
	10,000 colors *



11 13/16"

72W/9900lm	32W/4400lm (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	
	Narrow spot		Wide flood
	Spot		Extra wide flood
	Flood		Oval flood
		Lens wallwashers	
			Wallwash

0-10V	0-10V
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	Graphit m
	10,000 colors *

\* available on request  
 \*\* Only for narrow spot light distribution

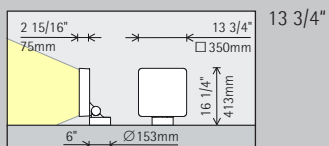
Article numbers and planning data:  
[www.erco.com/014700-us](http://www.erco.com/014700-us)

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

96W/13200lm	42W/5775lm (Narrow spot)
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## Light color

	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

0-10V	0-10V
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## Color (housing)

	Graphit m
	10,000 colors *

## Accessories

	Ground spike		Attachment
	Ground socket		Clamping plate
	Concrete anchor		Adapter piece
	Mounting plate		Spacer
	Cantilever arm		





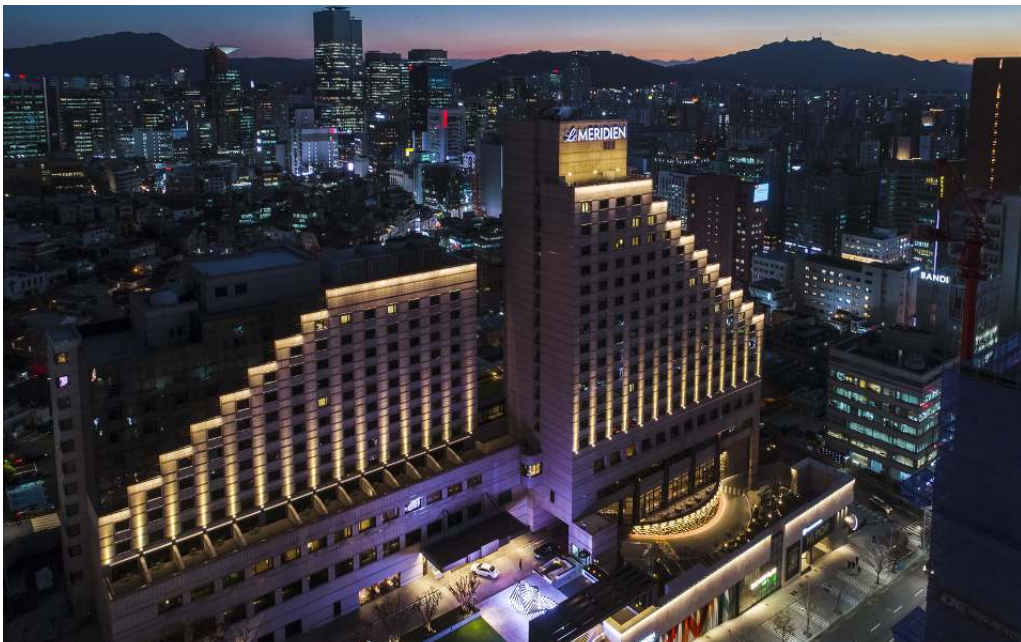
Fori Imperiali,  
Rome. Lighting  
design: Vittorio  
Storaro, Rome;  
Francesca Storaro,  
Castel Gandolfo.  
Photography:  
Vittorio Storaro,  
Rome / Castel  
Gandolfo.

\* available on request

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

Design and application:  
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Hotel Le Méridien,  
Seoul. Interior  
design: David  
Collins Studio,  
London. Lighting  
design: Eon SLD,  
Seoul. Photogra-  
phy: Jackie Chan,  
Sydney.

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Street, Sydney.  
Lighting design:  
Electrolight, Syd-  
ney. Photography:  
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