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 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

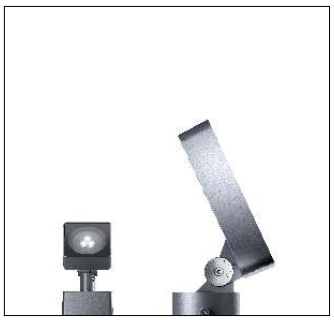
Variants on request
- High-power LEDs: 3000K CRI 97 or 2700K, 3500K, 4000K with CRI 92
- Housing: 10,000 further colors

Please contact your ERCO consultant.

Design and application:
www.erco.com/lightscan

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.



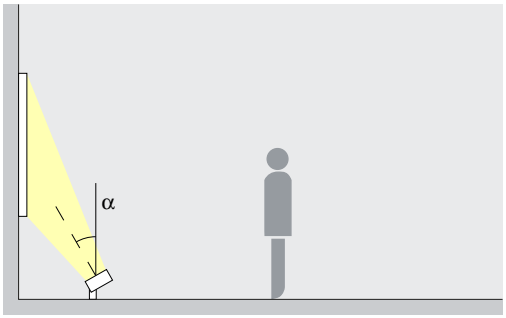
Various construction sizes
The luminaires in the ERCO product range cover a wide variety of lumen categories and therefore offer an appropriate solution for a large number of lighting tasks.

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 colors
- Excellent thermal management
- EMC-optimized
- Degree scale for good adjustability
- Pivotable through 90° Lockable
- Wet location
- Accessory for mounting variants
- Switchable
- 0-10V dimmable

Lightscan Projectors – Luminaire arrangement

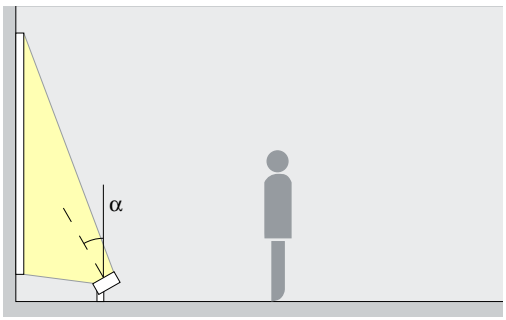
Projectors
Narrow spot, Spot, Flood



Accentuation
The ideal angle of tilt (α) for accent lighting with Lightscan 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°

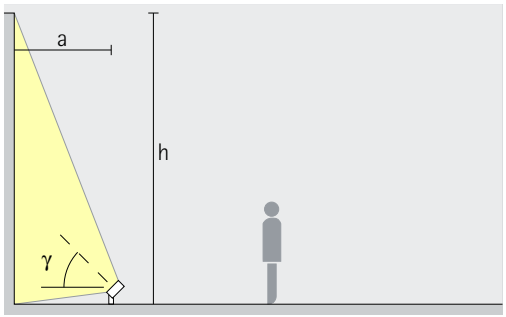
Floodlights
Wide flood, Extra wide flood, Oval flood



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

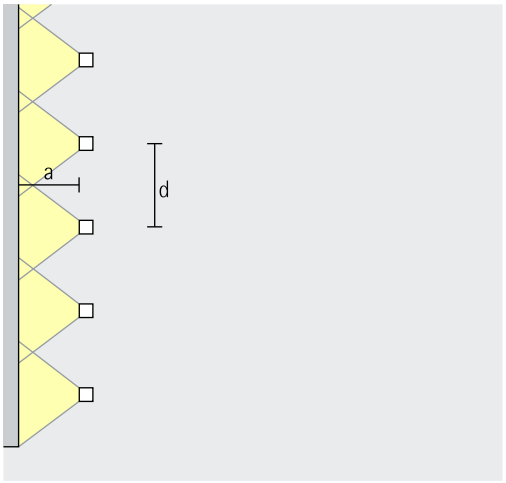
Arrangement: α = 30°

Lens wallwashers
Wallwash



Wallwashing
Uniform vertical illuminance in the outdoor area defines spatial borders. Here, the distance (a) of Lightscan 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 Lightscan lens wallwashers may be up to 1.2 times the offset from the wall (a).

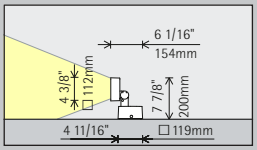
Arrangement: d ≤ 1.2 x a

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

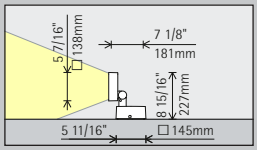
Exergi Power Station, Stockholm. Architecture: Urban design, Stockholm. Photography: Johan Elm, Stockholm.

Lightscan Projectors

Construction size



4 3/8"



5 7/16"

LED module
Maximum value at 4000K CRI 82

4 3/8"	5 7/16"
6.1W/786lm	2W/262lm (Narrow spot)

5 7/16"	
12.1W/1572lm	8.1W/1048lm (Narrow spot)
18.6W/2213lm	
24.3W/3144lm	

Light color

4 3/8"		5 7/16"	
2700K CRI 92 *	3500K CRI 92 *	2700K CRI 92 *	3500K CRI 92 *
3000K CRI 92	4000K CRI 82	3000K CRI 92	4000K CRI 82
3000K CRI 97 *	4000K CRI 92 *	3000K CRI 97 *	4000K CRI 92 *

Light distribution

4 3/8"		5 7/16"	
Projectors	Floodlights	Projectors	Floodlights
Narrow spot	Wide flood	Narrow spot	Wide flood
Spot	Extra wide flood	Spot	Extra wide flood
Flood	Oval flood	Flood	Oval flood
	Lens wallwashers		Lens wallwashers
	Wallwash		Wallwash

Control

4 3/8"	
Switchable **	
0–10V	0–10V

5 7/16"	
0–10V	0–10V

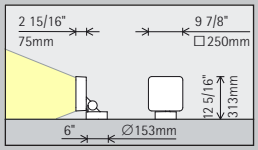
Color (housing)

4 3/8"	
Graphit m	
10,000 colors *	

5 7/16"	
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"

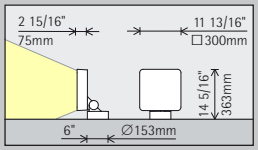
48.5W/6288lm	18.2W/2358lm (Narrow spot)

	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

0–10V	0–10V

	Graphit m
	10,000 colors *



11 13/16"

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

0–10V	0–10V

	Graphit m
	10,000 colors *

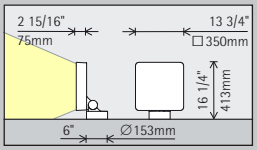
* available on request
** Only for narrow spot light distribution

Article numbers and planning data:
www.erco.com/014700-us

Design and application:
www.erco.com/lightscan

Lightscan Projectors, floodlights, wallwasher

Construction size



13 3/4"

LED module
Maximum value at 4000K CRI 82

96W/13200lm	42W/5775lm (Narrow spot)

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

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

Design and application:
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.