

Tesis – The benchmark in the outdoor area

An innovative archetype in outdoor lighting

Tesis has long been a regular feature in the outdoor range. In a completely upgraded version, it now delivers an entirely new level of performance. Innovative photometrics ensure maximum brilliance and efficiency. The robust polymer housing is fully corrosion-resistant and designed to ensure long life and ease of use. Be it directional luminaire, uplight or wallwasher, Tesis sets the benchmark in outdoor lighting.





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

- Directional spotlight light distributions: narrow spot, spot, flood or oval flood
- Uplight light distribution: wide flood

or

Lens wallwasher

- Optical cut-off 40°
- ERCO lens system: wallwash
- Wallwasher reflector: Metal or polymer, aluminised, silver, textured, partially coated black, with diffuser on lower side

2 ERCO LED-module

- High-power LEDs: warm white (3000K) or neutral white (4000K)
- Collimating lens made of optical polymer
- Directional spotlight pivotable through 0°-30°

3 Cover ring

- Covered or flush mounting detail
- Stainless steel
- Safety glass: 15mm, transparent

4 Housing

- Polymer, black
- Longitudinally watertight cable 3x1.5mm²
- Installation with separate connection sleeve
- Mounting is possible without mounting enclosure
- Installation in mounting enclosure: driveable, can be driven over by vehicles with air-filled tyres. Load 20kN or 50kN
- Hollow floor installation only with overlapping installation detail: Fixing set to be ordered separately

5 Control gear

- Switchable, phase dimmable or DALI dimmable
- Phase dimmable version: Dimming with external dimmers possible (trailing edge)

Protection mode IP68

Protection against the ingress of dust, protection against the consequences of continuous immersion in water to a depth of max. 3m.

Variants on request

- High-power LEDs: 3000K CRI 97 or 2700K, 3500K, 4000K with CRI 92
 - Cover ring: V4A stainless steel
 - Anti-slip safety glass
- Please contact your ERCO consultant.

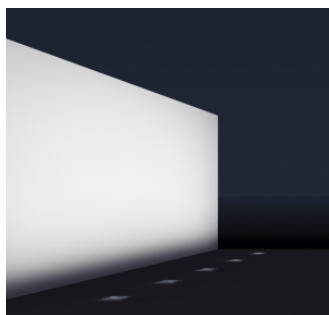


Design and application:
www.erco.com/tesis

Tesis In-ground luminaires



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



Outstanding uniformity
 To meet the stringent standards of vertical illuminance, ERCO has developed luminaires specifically to produce exceptionally uniform levels of illuminance.



Large luminaire spacing
 For some wallwashers, the luminaire spacing may be up to 1.5 times the offset from the wall. Corresponding details are provided in the wallwasher tables in the catalogue or the product data sheets. Computerised beam calculations are recommended to check potential intersections with side walls.

Special characteristics



Improved visual comfort



Outstanding uniformity



Wide luminaire spacing with wallwashing



ERCO high-power LEDs



Efficient Spherolit technology



Optical cut-off 40°



Different light distributions



Different light colours



Excellent thermal management



EMC-optimised



Various construction sizes



Flush or covered mounting detail



Protection mode IP68



Safety class II



Switchable



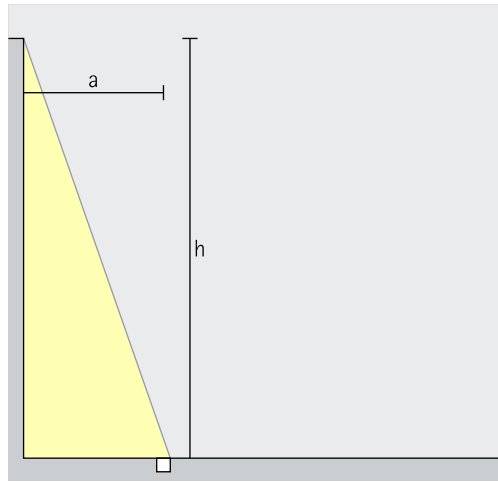
Phase dimmable



DALI dimmable

Tesis In-ground luminaires – Luminaire arrangement

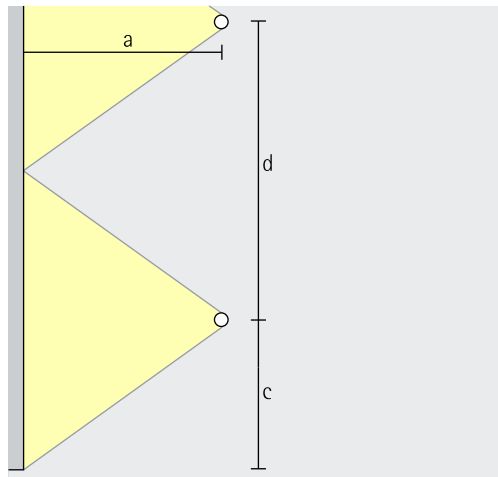
Lens wallwashers Wallwash



Wallwashing

Uniform vertical illuminance in the outdoor area defines spatial borders. Here, the distance (a) of Tesis lens wallwashers from the wall should be around one third of the room height (h).

Arrangement: $a = 1/3 \times h$



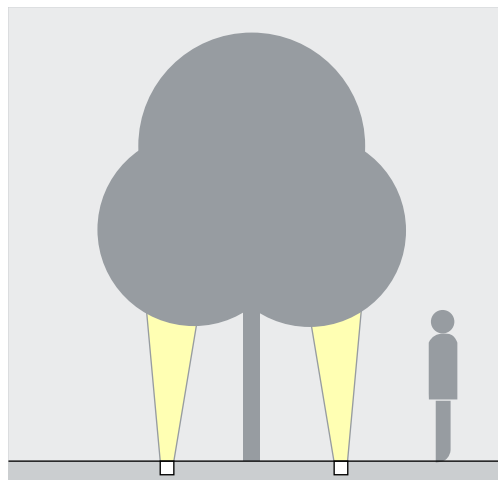
For good longitudinal uniformity, the spacing (d) of round Tesis lens wallwashers may be up to 1.3 times the offset from the wall (a).

Arrangement: $d \leq 1.3 \times a$

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

Uplights

Spot, Flood, Wide flood, Oval flood

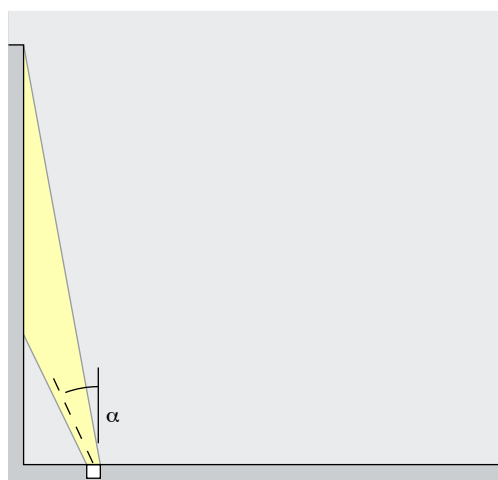


Accentuation

Tesis uplights used for the accentuation of objects such as treetops or cantilever roofs need to be accurately positioned and aligned to ensure that the light arrives precisely and only on the target surface to avoid light pollution.

Directional luminaires

Narrow spot, Spot, Flood, Oval flood



Accentuation

Experience has shown the ideal angle of tilt (a) for accent lighting with Tesis directional luminaires to be 25°. This ensures good modelling without excessive grazing light.

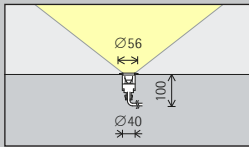
Arrangement: $\alpha = 25^\circ$

Anzac Memorial,
Sydney. Archi-
tecture: JPW -
Johnson Pilton
Walker. Light-
ing design: Arup
Sydney. Photogra-
phy: Jackie Chan,
Sydney.

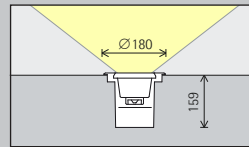


Tesis In-ground luminaires

Construction size Size 2



Construction size Size 3



LED module
Maximum value at 4000K CRI 82

3.1W/369lm

8.1W/1048lm

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

Lens wallwasher	
	Wallwash
Uplights	
	Spot
	Flood
	Wide flood
	Oval flood

Lens wallwasher	
	Wallwash
Uplight	
	Wide Flood

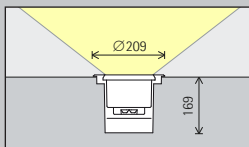
Control

	Switchable
	DALI

	Switchable
	DALI







Accessories







	Connection sleeve		Recessed housing		Installation unit
	Branching sleeve		Mounting kit		




Size 4

16.2W/2096lm	2W/262lm (Narrow spot)
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	2700K CRI 92 *		3500K CRI 92 *
	3000K CRI 92		4000K CRI 82
	3000K CRI 97 *		4000K CRI 92 *

Lens wallwasher		Directional luminaire	
	Wallwash		Narrow spot
Uplights			Spot
	Wide Flood		Flood
			Oval flood

	Switchable
	DALI

* available on request

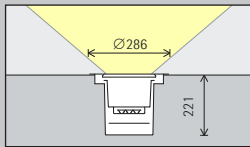
Article numbers and planning data:
www.erco.com/015146

Design and application:
www.erco.com/tesis



Tesis In-ground luminaires

Construction size



Size 5

LED module
Maximum value at 4000K CRI 82

4W/524lm (Narrow spot)	24.3W/3144lm
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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

Directional luminaire	
	Narrow spot

Lens wallwasher		Directional luminaire	
	Wallwash		Spot
Uplight			Flood
	Wide Flood		Oval flood

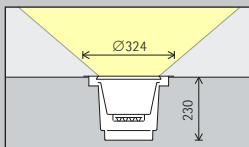
Control

	Switchable
	DALI

	Phase dimmable
	DALI







Accessories







	Connection sleeve		Recessed housing		Installation unit
	Branching sleeve		Mounting kit		





Size 7

32.3W/4192lm	8.1W/1048lm (Narrow spot)
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	2700K CRI 92 *		3500K CRI 92 *
	3000K CRI 92		4000K CRI 82
	3000K CRI 97 *		4000K CRI 92 *

Lens wallwasher		Directional luminaire	
	Wallwash		Narrow spot
Uplight			Spot
	Wide Flood		Flood
			Oval flood

	Phase dimmable
	DALI

* available on request

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Parliament,
Stockholm. Photo-
graphy: Johan
Elm.

St. Paul's Church,
Stockholm. Photo-
graphy: Johan
Elm.



