Tesis round – 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. A considerably flatter housing thanks to LED technology ensures exceptionally straightforward installation – in both round and square version. 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° from horizontal
- ERCO lens system: wallwash
- Wallwasher reflector: metal or polymer, aluminized, 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: 9/19" / 15mm, transparent

4 Housing
- Polymer, black
- Longitudinally watertight cable AWG14, L 31 1/2" / 800mm
- 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 4500lb.wt / 20kN or 11240lb.wt / 50kN
- Hollow floor installation only with overlapping installation detail: Fixing set to be ordered separately

5 Control gear
- Switchable, trailing edge dimmable or 0-10V dimmable

Trailing edge dimmable version:
- Operation at 120V: Dimming with external dimmers possible
- Operation at 277V: switchable

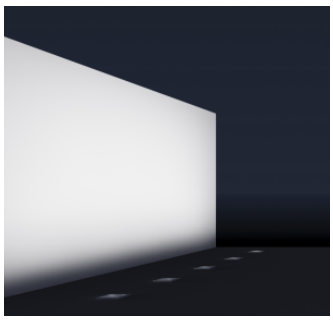
Suitable for wet location (IP68)
Dust-proof. Protected against the results of continuous submersion up to a depth of max. 3m.

Variants on request
- High-power LEDs: 3000K 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-round

Tesis round In-ground luminaires



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

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

Available in round or square
The ERCO system design includes round and square versions to provide luminaires suited to the architecture and surroundings.

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 catalog or the product data sheets. Computerized beam calculations are recommended to check potential intersections with side walls.

Special characteristics

- Improved visual comfort
- Outstanding uniformity
- Available in round or square
- Wide luminaire spacing with wallwashing

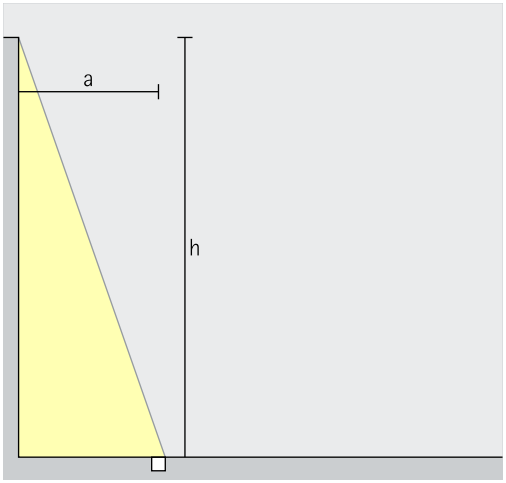
- ERCO high-power LEDs
- Efficient Spherolit technology
- Optical cut-off 40° from horizontal
- Different light distributions
- Different light colors

- Excellent thermal management
- EMC-optimized
- Various construction sizes
- Flush or covered mounting detail
- Wet location

- Switchable
- Trailing edge dimmable
- 0-10V dimmable

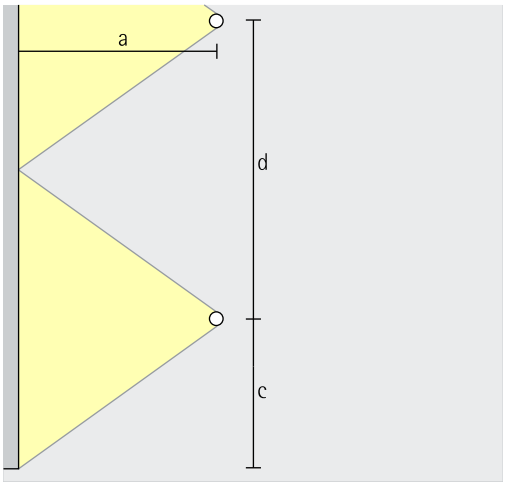
Tesis round In-ground luminaires – Luminaire arrangement

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 x h

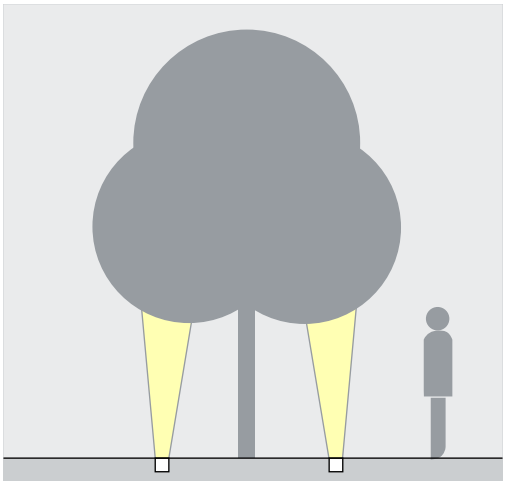


For good longitudinal uniformity, the spacing (d) of round Tesis lens wallwashers may be up to 1.3 times the offset from the wall (a).

Arrangement: d ≤ 1.3 x a

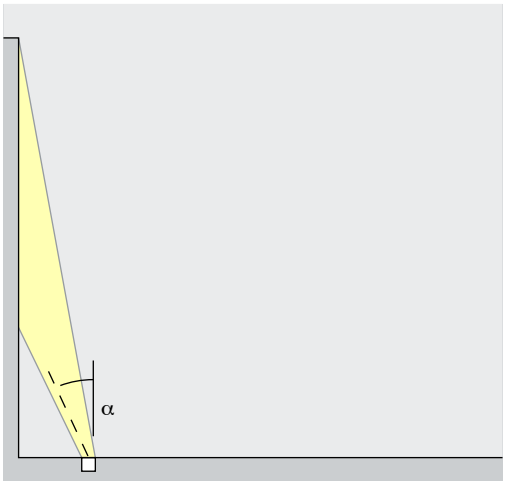
The optimal wall offset and luminaire spacing for each product are indicated in the wallwasher tables in the catalogue and the product data sheets.

Uplights
Wide 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



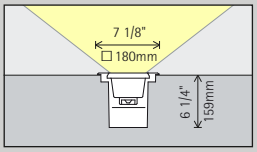
Accentuation
Experience has shown the ideal angle of tilt (a) for accent lighting with Tesis directional luminaires to be 25°. This ensures good modeling without excessive grazing light.

Arrangement: $\alpha = 25°$

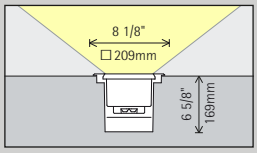
Belmont Forum,
Cloverdale.
Lighting design:
Lighting Options
Australia, Perth.
Photography:
Matt Devlin, Perth.

Tesis round In-ground luminaires

Construction size



Size 3



Size 4

LED module
Maximum value at 4000K CRI 82

Size 3	Size 4	
8W/1100lm	16W/2200lm	2W/275lm (Narrow spot)

Light color

Size 3		Size 4	
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

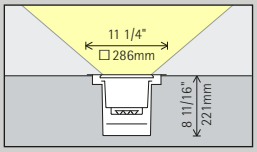
Size 3	Size 4	
Lens wallwasher	Lens wallwasher	Directional luminaire
Wallwash	Wallwash	Narrow spot
Uplight	Uplights	Spot
Wide Flood	Wide Flood	Flood
		Oval flood

Control

Size 3	Size 4	
Trailing edge dimmable	0–10V	0–10V
		Switchable **

Accessories

Connection sleeve	Mounting kit
Recessed housing	



Size 5

4W/550lm (Narrow spot)

24W/3300lm

	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 *

Directional luminaire
Narrow spot

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

0–10V	0–10V
	Switchable

0–10V	0–10V

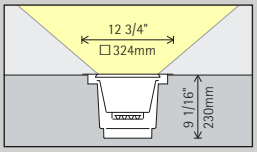
* available on request
** Only for narrow spot light distribution

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

Design and application:
www.erco.com/tesis-round

Tesis round In-ground luminaires

Construction size



Size 7

LED module
Maximum value
at 4000K CRI 82

32W/4400lm	8W/1100lm (Narrow spot)

Light color

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

Light distribution

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

Control

0–10V	0–10V

Accessories

Connection sleeve	Mounting kit
Recessed housing	

Facade of Brandsende office building, Hamburg. Architecture: Akyol Kamps, Hamburg. Lighting design: Akyol Kamps, Hamburg. Photography: Frieder Blickle, Hamburg.

* available on request

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