Tesis New - The benchmark in the outdoor area

An innovative archetype in out-

door lighting Tesis, which has long been an inte-gral part of the ERCO program, gral part of the ERCO program, has reached a new level of per-formance following intensive further development. Its light-ing technology convinces with maximum brilliance and efficiency. The robust, corrosion-free polymer housing ensures durability and easy handling. Whether directional spotlights with interchangeable lenses and zoom light distributions, uplights, or wallwashers – Tesis sets the benchmark in outdoor lighting.



ERCO

Technical region: We reserve the right to make technical and design changes. Edition: 23.01.2025

Current version under www.erco.com/tesis-new



Structure and characteristics The features described here are typical

of products in this range. Special ver-sions may offer additional or varying features. A comprehensive description of the features of individual products can be found on our website

1 ERCO lenses

- Made of optical polymer Spherolit lenses: narrow spot, spot, flood, wide flood, or oval flood
- Zoom lenses: Zoom spot and zoom oval; infinitely variable focus

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Lens wallwashers Wallwasher reflector: polymer, aluminum vaporized, silver

2 ERCO LED module

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

- 3 Cover ring
 Covered or flush mounting detail
 Stainless steel
 Protective glass: flush, 9/19" / 15mm,
- clear or

- Cover (semi-recessed) Graphite m
- _ Polymer, coated
- Protective glass

4 Housing – Polymer, black

- Longitudinally watertight connection _ cable
- Installation with separate connection sleeve
- Mounting without installation
- housing possible Mounting in recessed housing (lumi-naires with flush protective glass): can be driven on and rolled over by vehicles with air-filled tires. Load 4500lb.wt / 20kN or 11240lb.wt / 50kN
- Hollow floor installation only with overlapping installation detail: order mounting set separately

5 Control gear- Switchable or 0-10V dimmable

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-new



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.



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

Special characteristics



Improved visual comfort





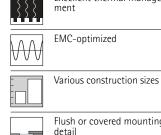


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ERCO high-power LEDs

Efficient Spherolit technol-

Different light distributions



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Flush or covered mounting detail Wet location

Excellent thermal manage-

Switchable

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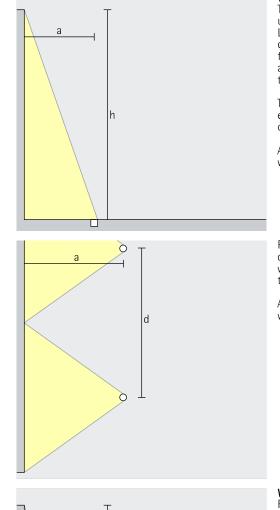
0-10V

0-10V dimmable

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Tesis New In-ground luminaires – Luminaire arrangement

Recessed wallwashers Wallwash



Wallwashing Tesis wallwashers offer exceptional uniformity on vertical surfaces. Lens wallwashers are the right choice for flush mounting in the floor. Semi-recessed wallwashers allow installation particularly close to the wall.

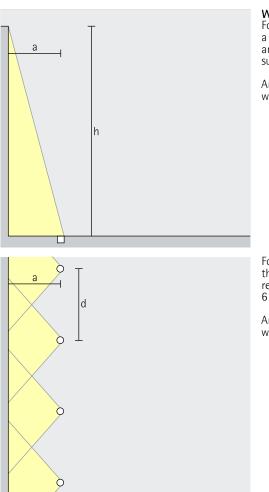
The distance of Tesis lens wallwashers to the wall (a) should be about one third of the room height (h).

Arrangement for recessed wall-washers: $a = 1/3 \times h$

For good linear uniformity, the distance (d) between Tesis lens wallwashers can be up to 1.3 times the distance to the wall (a).

Arrangement for recessed wall-washers: d \leq 1.3 x a

Semi-recessed wallwashers Wallwash



Wallwashing For semi-recessed wallwashers, a minimum wall distance (a) of around 1/6 of the room height is sufficient.

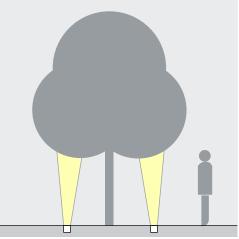
Arrangement for semi-recessed wallwashers: $a = 1/6 \times h$

For good longitudinal uniformity, the distance (d) between semirecessed wallwashers may be up to 6 times the distance to the wall (a).

Arrangement for semi-recessed wallwashers: $d \le 6 \times a$

Tesis New In-ground luminaires - Luminaire arrangement

Uplights Spot, Flood, Wide flood, Oval flood



Accentuation Tesis uplights used for the accen-tuation 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.

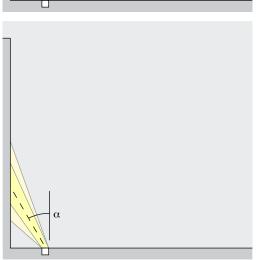
Accentuation

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: $\alpha = 25^{\circ}$

Directional luminaires Narrow spot, Spot, Flood, Oval flood

Zoom directional luminaires Zoom spot, Zoom oval

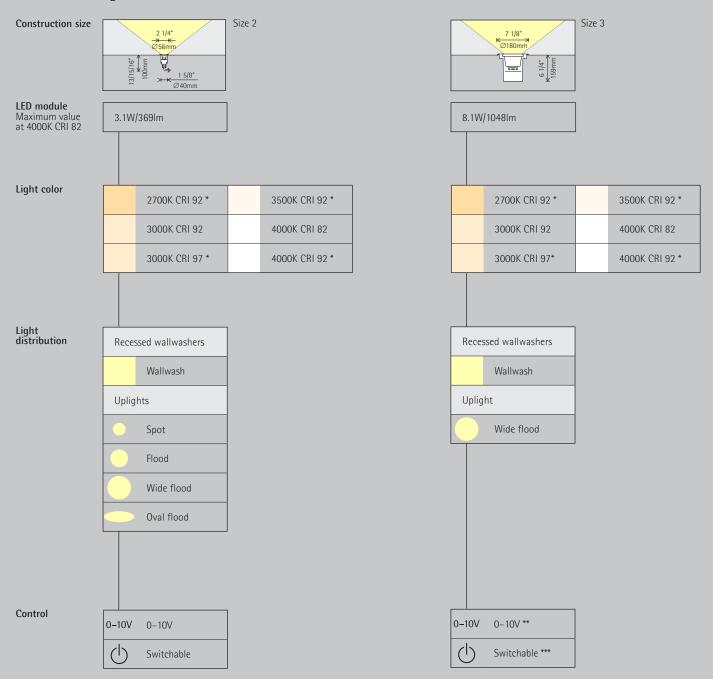


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Accentuation

Zoom directional luminaires feature a continuously adjustable beam angle. With the spot to wide flood zoom range, smaller objects can be accentuated effectively at an inclination angle (a) of about 30°. Oval zoom is suitable for linear-shaped objects to model the object without distorting the effect as a result of excessive shadowing. This set-up also prevents shadows cast by the observer.

Arrangement: $\alpha = 30^{\circ}$



Accessories	££	Connection sleeve	Ļ	Mounting kit
		Recessed housing		Installation unit

	8 1/8" Ø209mm .8/5 0 1 0 1	Size 4			
16.21	V/2096Im	4.2W/470Im (Narrow spot)			
	2700K CRI 92 *		3500K CRI 92 *		
	3000K CRI 92		4000K CRI 82		
	3000K CRI 97 *		4000K CRI 92 *		
Rece	Recessed wallwashers		Directional luminaire		
	Wallwash	•	Narrow spot		
Semi-recessed wallwashers			Spot		
	Wallwash		Flood		
Uplights			Oval flood		
	Wide flood		Zoom directional luminaires		
			Zoom spot		
		$\overset{}{\longrightarrow}$	Zoom oval		

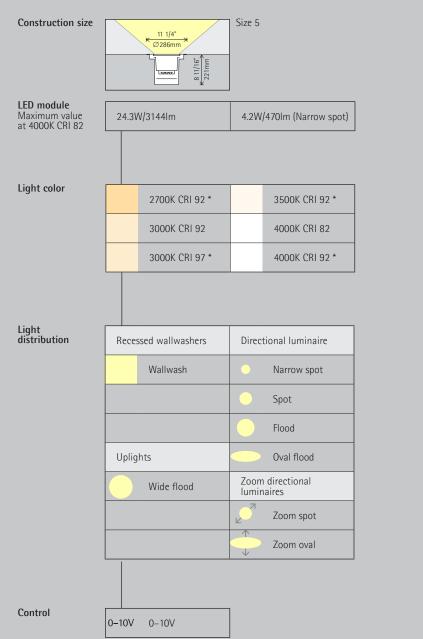
0-10V 0-10V

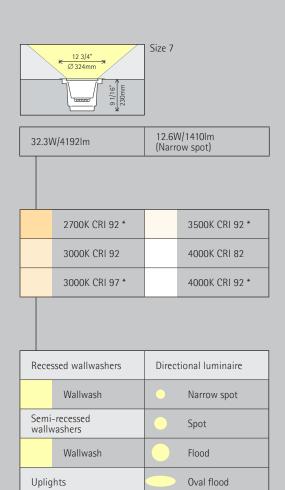
* available on request
 ** Only for wallwash light distribution
 *** Only for wide flood light distribution

Article numbers and planning data: www.erco.com/029735-us

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







Zoom directional luminaires

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Zoom spot

Zoom oval

Wide flood

0-10V 0-10V



* available on request

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More precise than ever: The new generation of inground luminaires. Visualization: Electric Gobo