Tesis New – The benchmark in the outdoor area

An innovative archetype in out-

door lighting
Tesis, which has long been an integral part of the ERCO programme, ral part of the ERCO programme, has reached a new level of performance following intensive further development. Its lighting 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.







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 lenses

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

Lens wallwashers Wallwasher reflector: polymer, aluminium vaporised, 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 ringCovered or flush mounting detailStainless steel
- Protective glass: flush, 15mm, clear

Cover (semi-recessed)

- Graphit 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 (luminaires with flush protective glass): can be driven on and rolled over by vehicles with air-filled tyres. Load 20kN or 50kN Hollow floor installation only with
- overlapping installation detail: order mounting set separately

5 Control gearDALI dimmable

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.



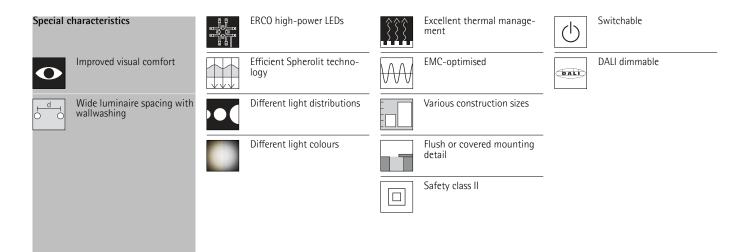
Design and application: www.erco.com/tesis-new



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.

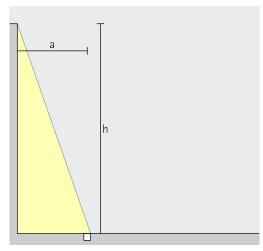


Outstanding uniformity
To meet the stringent standards
of vertical illuminance, ERCO has
developed luminaires specifically
to produce exceptionally uniform
levels of illuminance.



Tesis New In-ground luminaires – Luminaire arrangement

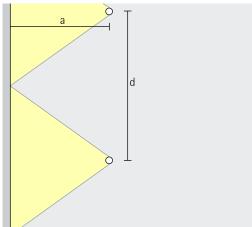
Recessed wallwashers Wallwash



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).

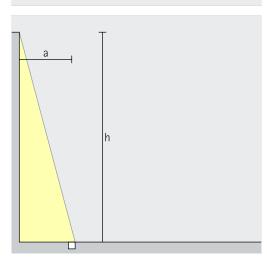
Arrangement for recessed wall-washers: $a = 1/3 \times h$



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

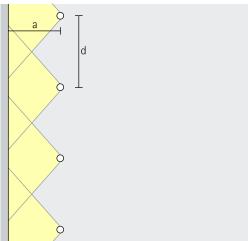
Arrangement for recessed wall-washers: $d \le 1.3 \times a$

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: $a = 1/6 \times h$

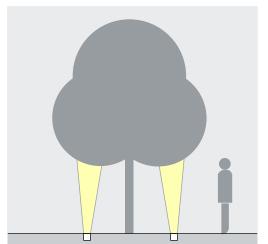


For good longitudinal uniformity, the distance (d) between semirecessed wallwashers may be up to 6 times the distance to the wall (a).

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

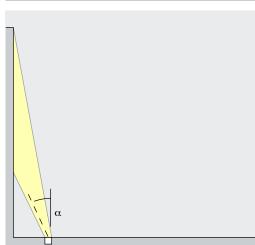
Tesis New In-ground luminaires – Luminaire arrangement

Uplights Spot, Flood, Wide flood, Oval flood



AccentuationTesis 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

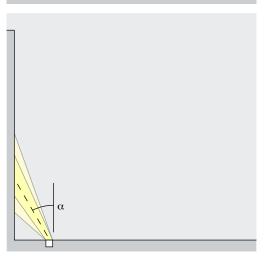


Accentuation

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

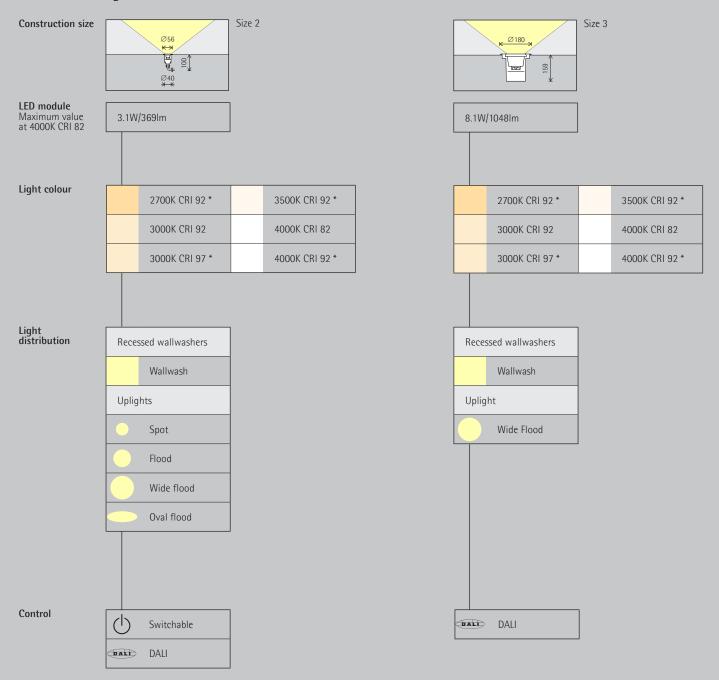
Zoom directional luminaires Zoom spot, Zoom oval



Accentuation

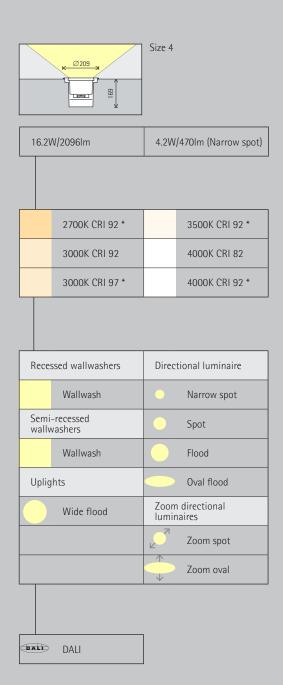
Zoom directional luminaires feature a continuously adjustable beam angle. With the spot to wide flood zoom range, smaller objects can be accentuated effectively at an inclination angle (α) of about 30°. Oval zoom is suitable for linear-shaped objects to model the object without distorting the effect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

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





<u>A</u> A	Connection sleeve	Recessed housing	Installation unit
	Branching sleeve	Mounting kit	





^{*} available on request



Accessories

A-A	Connection sleeve	Recessed housing	Installation unit
© 3	Branching sleeve	Mounting kit	





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