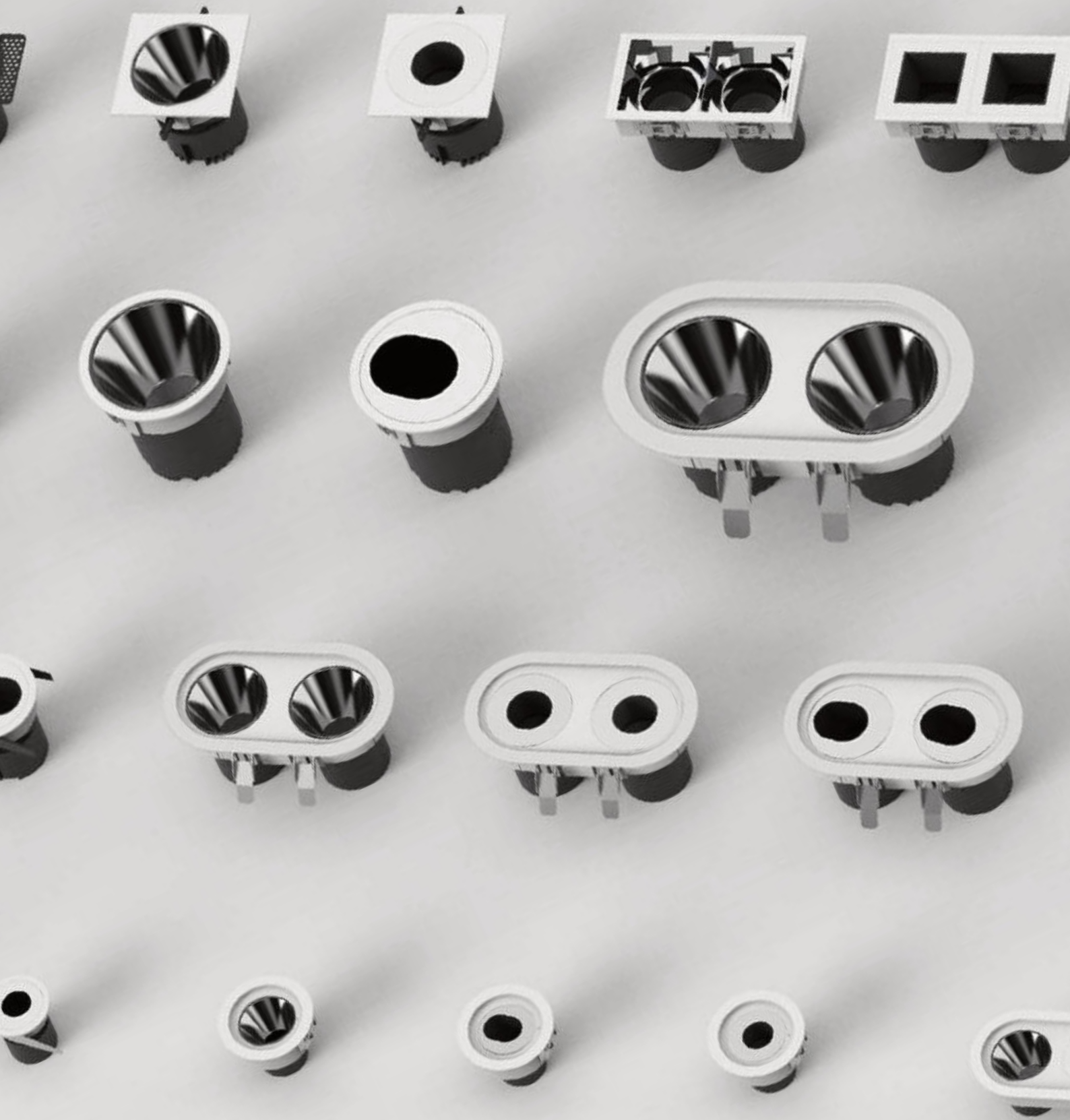


ALENA

modular downlight family

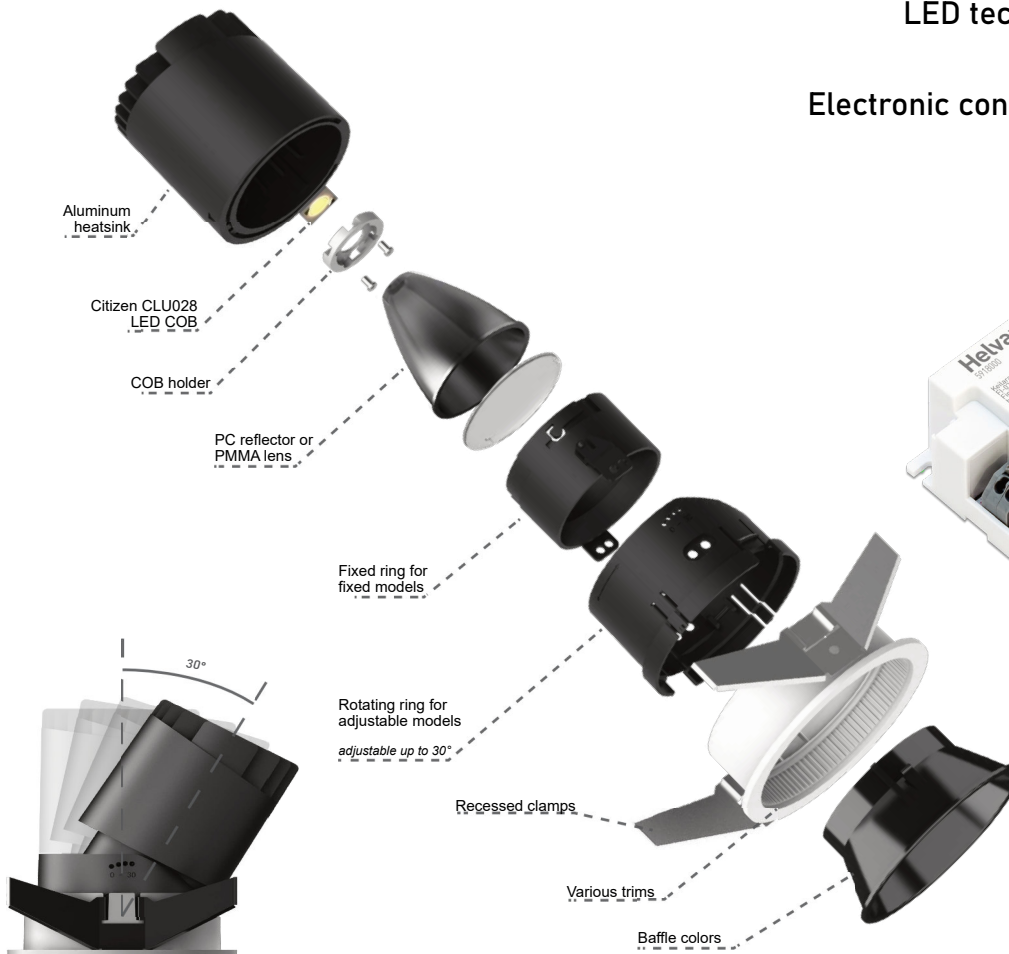
LUXTRON
SYSTEMS



1 LED engine for all use cases

3D expansive view

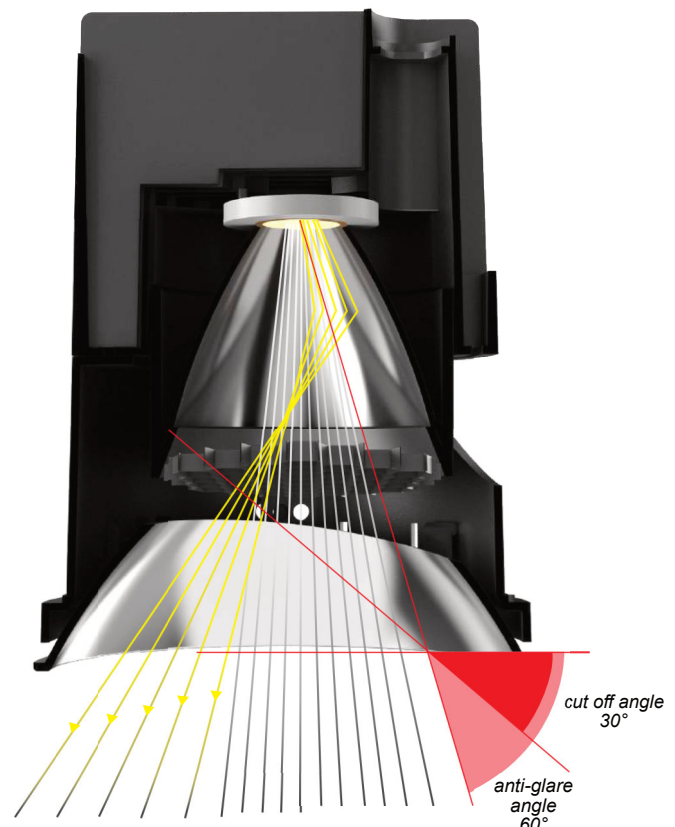
LED technology from **CITIZEN**
Electronic controlgear from **Helvar**



Darklight technology

Deep anti-glare cup extends the distance between light source and output which improves the anti-glare performance.

The light passes through the honeycomb filter effectively reducing the excess light beam.



Clear Lens

Regular 24° lens



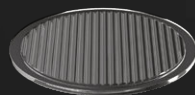
Soft Lens *or frosted lens*

Frosted glass filters out soft light and further enhance the diffused effect of light, thereby reducing the possibility of glare. Provides a uniform light and soft environment.



Square Lens

Square light spot, through atomization or diffusion, let. The light is evenly diffused and softer, thus reducing. The stimulation of lamps to human eyes, achieving anti-glare effect. Fruit, and generally have optical beam expansion function.



Stripe Lens

Stretching pattern light spot is can according to direction horizontal stretching or straight line stretching, effect is will circular light spot pull into ellipse light spot. Can will light spot concentrate in a direction, illuminate that direction as far as possible wide area, and reduce light in other direction (mainly is ellipse short axis direction) of waste (reduce stray light).



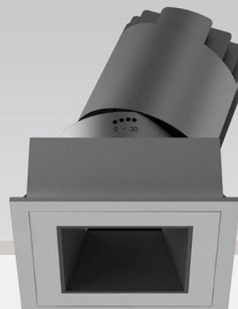
Honeycomb

Edge light and shade transition soft light source effect, effectively prevent excess stray light, let direct light through, thus prevent glare, protect eyes, anti-glare UGR less than 16.

ALENA 89 Square

technical specifications

LUXTRON
SYSTEMS



Electronic controlgear
from

Helvar

LED technology
from

CITIZEN

Technical specifications

Model No	Alena 89A Square
Mounting	Recessed Mounting, Fixture adjustable up to 30°
Wattage	14 W (system) 12.60 W (load)
Input Voltage	220V-240V AC (50-60 Hz) Use with supplied and duly wired electronic controlgear from Helvar, Finland
Beam Angle	10° / 15° / 24° / 38° / 55° PMMA lens optic
Color Temperature	2700K / 3000K / 4000K / 5000K others available on request COB from Citizen, Japan until or unless explicitly specified.
Color Rendering Index	80 / 90
Luminous Flux	1070 lm, 3000K, 15° 959 lm, 3000K, 36°
IP Rating	IP40
Dimming Protocols	DALI-2 / Wireless / 1-10V
Dimensions	89 x 89 x H105 mm
Cut out	82 x 82 mm

Salient features

- 14W recessed mounted adjustable LED downlight
- Square frame with LED engine adjustable up to 30°
- Various color temperature options available.
- Dim to Warm & Tunable White available on request.
- Equipped with CRI90 LED COB from Citizen, Japan. CRI97 VIVID available on request.
- Use of PMMA lens optics leads to accurate beam shaping.
- Supplied with duly wired Helvar LED driver from Finland
- Available in ON/OFF, DALI & Wireless dimming options
- Wireless dimming is possible via CASAMBI or Helvar Freedom protocols.



Square Lens



Soft lens



Honeycomb



Stripe Lens

Reflector baffle Options

With white baffle
trim



Without baffle



Matt Black

Chrome

Gun black

Silver

Matt White

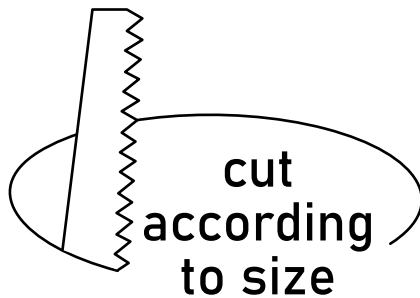
Sand Gold

WARNINGS

- **INSTALLATION SHOULD ONLY BE PERFORMED AFTER POWER TO THE FIXTURE HAS BEEN DISCONNECTED.**
- This product is suitable for indoor use only.
- Do not attach to surfaces which are damp, freshly painted or electrically conductive.
- Not suitable for mounting on flammable surfaces.
- Do not cover the heatsink of the downlight.
- To prevent wiring damage or abrasion, do not expose wiring to edges of sheet metal or other sharp objects.
- Do not make or alter any open holes in an enclosure of wiring or electrical components during kit installation.

INSTALLATION INSTRUCTIONS

1

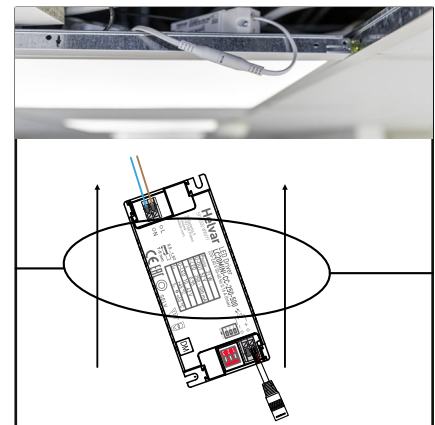
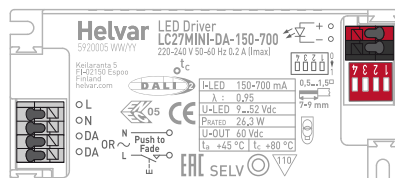
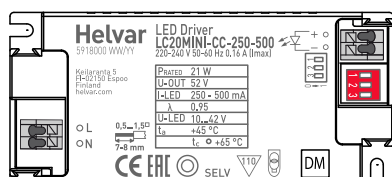
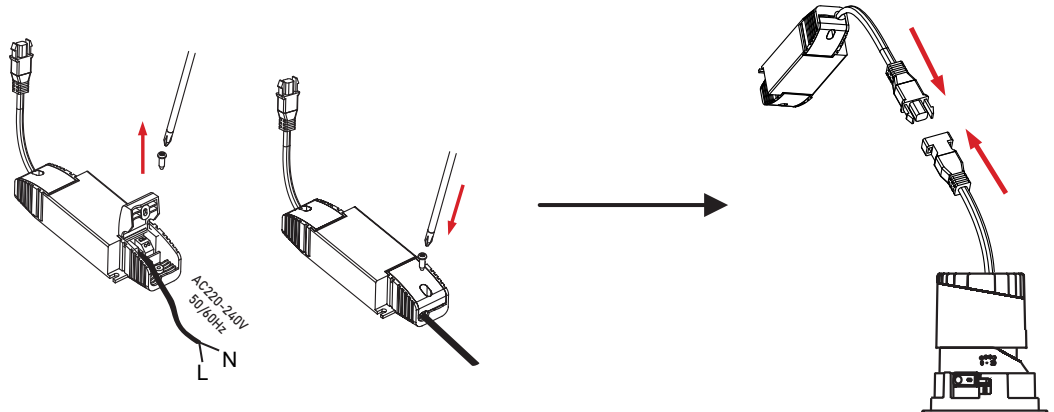


for other models, cut out sizes are mentioned in datasheets

Models	Cut Out Sizes
Alena 89 Square	82 x 82 mm
Alena 60 Round	50 mm
Alena 86 Round	75 mm

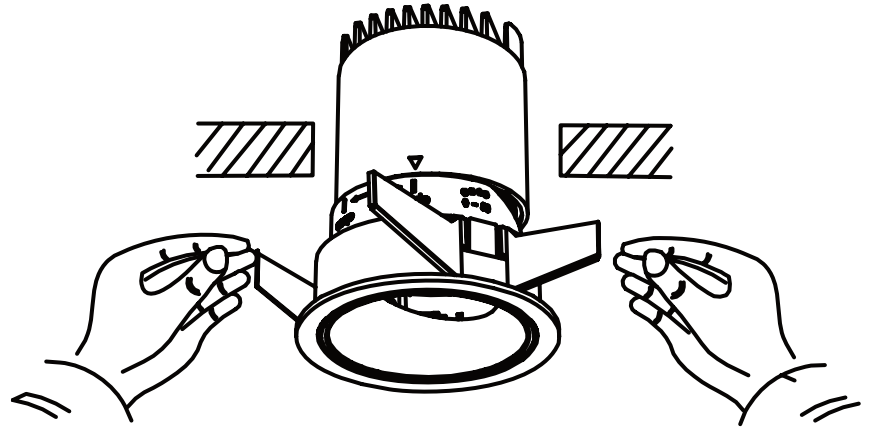
2

Wire and insert the supplied LED driver inside the cut-out



3

insert the LED
downlight into the
cut-out and make
sure the downlight is
set in place once
inserted.



4

You're done!

*1 LED engines for all
use cases!*

