

# Ella LED Downlight



## Ella Series | Canless | Adjustable Downlight



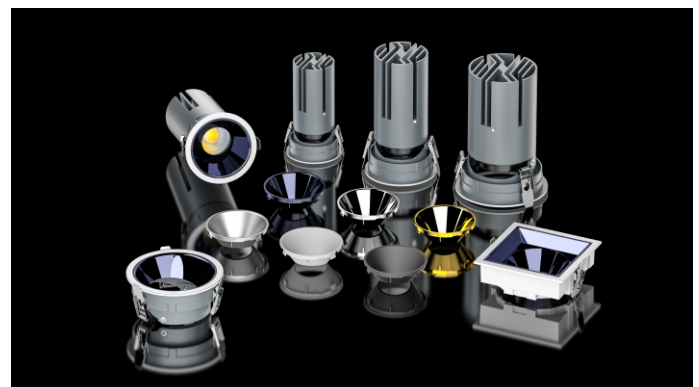
Ella adjustable LED downlight with casting designed construction with cold forging led engine. Quick & easy Installation , just cut a hole in the ceiling and the attached spring clips snap the fixture into place – no housing required! It is designed with IC-rated performance for direct contact with insulation, and suitable for damp or wet locations. A high CRI provides true color rendering in area of illumination as well. Ideal applications include sloped ceilings and highlighting artwork or other features

It offers single CCT, 5CCT and warm dim for various applications. Easy to install in drywall ceilings, these IC-rated and airtight downlights are innovative in design and technology, providing a sustainable lighting solution with high lumen output and adaptability. The high-LED array emits industry-leading lumen output and offers a high CRI of 80+ (optionally 90+), ensuring a long lifespan. Suitable for both residential and commercial spaces, the series is designed for dry, damp, and wet locations in remodel and new construction applications. A mounting frame with optional hanger bars is included for new constructions. The housing bracket is sold separately, and a remote driver is included.

### KEY FEATURES

#### ELLA Adjustable LED Downlight

- Cold Forging LED Engine with deep regress with remote driver j box.
- Electrical supply 120V, 100-277V, 100-347V available.
- Optional Triac/Elv/0-10V/Dali Dimmable functions or Triac/ELV/0-10V 3 IN 1 driver optional.
- Available in single CCT, 5CCT, and Warm Dim 2700K/3000K-1800K
- Easy and quick installation to the ceiling.
- Type IC rated & No recessed housing or J box required
- Suitable for indoor Dry, Damp locations
- Flexibility to switch color temperature during installation to suit a specific application
- CCT Selectable via a dip switch located on junction box
- 5 year warranty on fixture and electronics.
- ETL Listed to US and Canadian standards (cETL,ETLus)





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ELL-2"LJRES-RM;  
ELL-3"LJSES-RM;  
ELL-4"LJSES-RM;

ELL-2"LJRES-NC;  
ELL-3"LJSES-NC;  
ELL-4"LJSES-NC;

PROJECT: \_\_\_\_\_

TYPE: \_\_\_\_\_

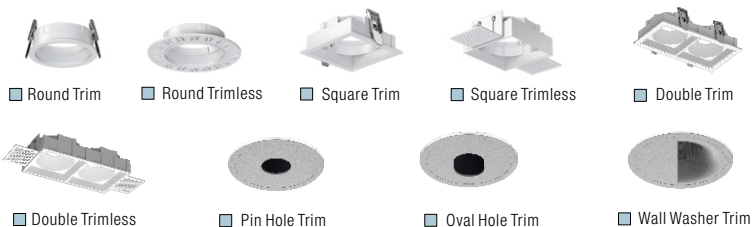
LOCATION: \_\_\_\_\_

NOTE: \_\_\_\_\_

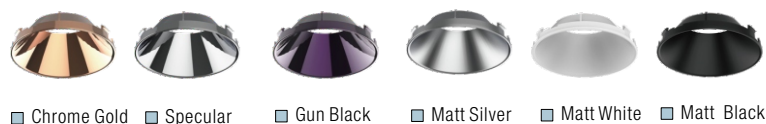


#### FAMILY

#### Trim Options



#### Reflector Available

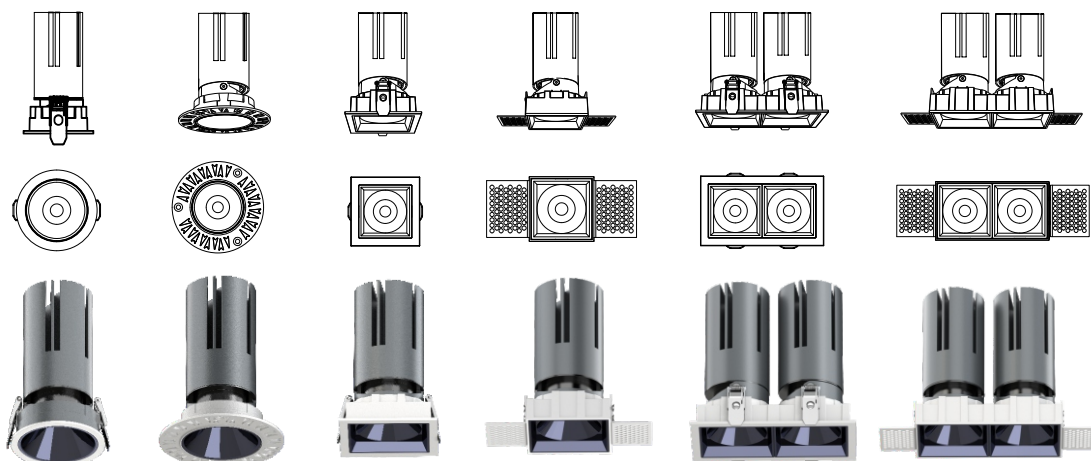
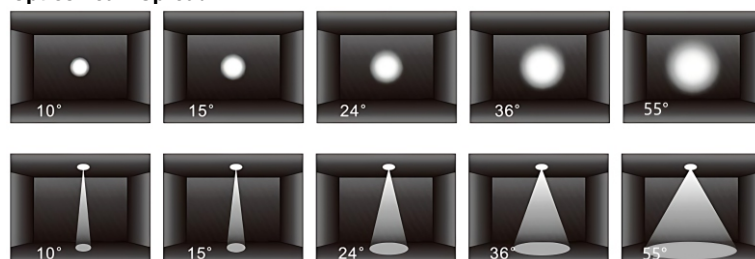


Note: \*square reflector same above colors

#### Extra Accessories if required.



#### Optics Beam Spread





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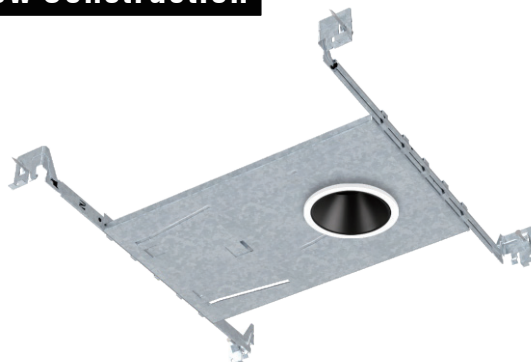
LOCATION: \_\_\_\_\_

NOTE: \_\_\_\_\_

### Remodel



### New Construction



#### LED LIGHT BODY

|                  |                                                       |
|------------------|-------------------------------------------------------|
| RATED WATTAGE    | UP to 40W                                             |
| DELIVERED LUMENS | Up to 3400lm                                          |
| EFFICACY         | Up to 85 LPW ( 100 LPW-can be customized if required) |
| CCT @ 90CRI      | 2700K,3000K,3500K,4000K,5000K,3CCT,5CCT,Warm Dim      |
| COLOR QUALITY    | 90+ CRI, 3-Step SDCM                                  |
| LED LIFETIME     | 55,000 hours @ L90                                    |

#### OPTICS TECHNOLOGY

|          |                                    |
|----------|------------------------------------|
| OPTICS   | 10°,15°,24°,38°,55°                |
| FUNCTION | Adjustable 30° tilt, 359° rotation |
| MEDIA    | PMMA lens                          |

#### POWER SUPPLY

|               |                                                   |
|---------------|---------------------------------------------------|
| INPUT VOLTAGE | 120V/100-277V/ 50/60Hz                            |
| DIMMING       | TRIAC/ELV, 0-10V, Dali, Dmx (dms to 5%) or on/off |
| SERVICABILITY | Below Ceiling Access                              |

#### HOUSING INSTALLATION

- New Construction with galvanized steel adjustable hanger bars
- New Construction with galvanized rough in plate without adjustable hanger bars
- Remodel installation option available
- IC Shallow housing option available if required
- Ceiling Material: Drywall, T-bar grid
- Steel junction box with up to 3 x 1/2" knockouts
- Type IC rated and Air-tighted

#### TRIM OPTIONS

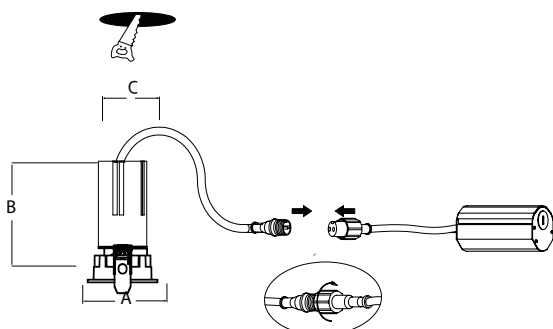
- Fixed or Adjustable
- Round or Square
- Pin hole / Oval hole
- Wall washer
- Standard or Trimless

#### TRIM OPTIONS

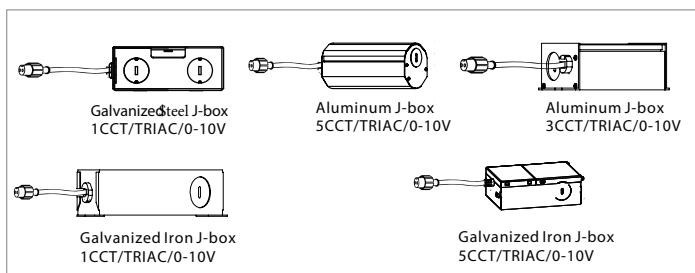


■ Matt White ■ Matt Black ■ Matt Silver

#### MEASUREMENT (unit:mm)



#### Electrical Connection Box



#### DIMENSIONS ( unit :mm)

| Trim | A(mm)   | B (mm) | C (mm) | Power(w)          |
|------|---------|--------|--------|-------------------|
| RD   | 65      | 115    | 56     | 12w Max NON IC.   |
| RDTL | 89      | 115    | 56     | 12w Max. NON IC   |
| SQ   | 65*65   | 123    | 58*56  | 12w Max. NON IC   |
| SQTL | 112*55  | 123    | 58*56  | 12w Max. NON IC   |
| DT   | 115*65  | 123    | 105*58 | 2X12w Max. NON IC |
| DTL  | 175*55  | 123    | 110*55 | 2X12w Max. NON IC |
|      |         |        |        |                   |
| RD   | 82      | 148    | 75     | 18w Max. NON IC   |
| RDTL | 108     | 148    | 75     | 12w Max.          |
| SQ   | 85*85   | 158    | 78*75  | 18w Max. NON IC   |
| SQTL | 145*74  | 158    | 78*75  | 12w Max.          |
| DT   | 155*75  | 158    | 145*78 | 2X15w Max.        |
| DTL  | 215*75  | 158    | 150*75 | 2X12w Max.        |
|      |         |        |        |                   |
| RD   | 105     | 148    | 95     | 20w Max. NON IC   |
| RDTL | 128     | 148    | 95     | 18w Max.          |
| SQ   | 105*105 | 158    | 98*95  | 20w Max. NON IC   |
| SQTL | 166*95  | 158    | 98*95  | 18w Max.          |
| DT   | 196*105 | 158    | 185*98 | 2X20w Max. NON IC |
| DTL  | 256*95  | 158    | 190*95 | 2X18w Max.        |

Note:RD= Round SQ= Square DT= Double Trim  
RDTL= Round Trimless SQTL= Square Trimless DTL= Double Trimless



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PROJECT: \_\_\_\_\_  
TYPE: \_\_\_\_\_  
LOCATION: \_\_\_\_\_  
NOTE: \_\_\_\_\_

#### CONSTRUCTION

Strong cold froging led engine designs with powder paint coat casting trim preventing discoloring and rusting. Designed for new construction, remodel or retrofit. Effective thermal dissipation facilitated by integral cast-aluminum with best heat dissipation performance. No housing required, installs directly into the ceiling. Designed with 20° tilt and 360° rotation, ideal for slopped ceilings, wall washing, highlighting artwork, task or general lighting.

#### LED CHARACTERISTICS

Field-adjustable dip switch 2700K/3000K/3500K/4000K/5000K in color of standard CRI80 and optional CRI90, <3-step MacAdam Ellipse binning to achieve consistent fixture-to-fixture colors. Single CCT, 3CCT 5CCT and warm dim 3000K/2700K-1800K available for different application requirements.

#### Various Optic:

High precision lens produces the field changeable 10°, 15°, 24°, 38°, 55° for various application requirements.

#### LED Dimming Driver:

120-volt driver compatible with incandescent, magnetic low voltage and ELV dimming or the universal 100V-277V/347V driver with 0-10V dimming, conforms to CSA C22.2 No. 250.0 & UL1598 standards. Phase dimming, Forward 1% & Reversed 5% (120V only) & 0-10V, dim off

#### Mounting:

Strong snap-in mounting springs, for the use without junction box or recessed can, quick & easy installation for new constructions/Remodel applications.

#### Location:

Suitable for indoor dry/damp/wet locations

#### Listing:

ETL Listed in US and Canadian standards (cETL, ETLus)

#### Warranty:

5-Year LED Limited Warranty

#### ORDERING GUIDE

Example: 3" ROUND = ELL-3"-LJRER-RM-12L-27K-9-MD-DM1-blank-WH

#### CATALOG #

#### FIXTURE MODULE

**NOTE: NON IC ONLY - 2" 12W Max. | 3" 18W Max | 4" 20W Max | 3" Double 36W Max | 4" Double 40W Max. See page 3 for more details**

| Item               | Applications        | Lumen Output | CCT                         | CRI   | Distribution              | Driver Options                                            | Voltage                                         | CONSTANT VOLTAGE                          |
|--------------------|---------------------|--------------|-----------------------------|-------|---------------------------|-----------------------------------------------------------|-------------------------------------------------|-------------------------------------------|
| ELL-2"LJRER Round  | RM Remodel          | 08L 680      | 27K 2700K                   | 8 80+ | VNSP Very Narrow Spot 10° | PDM <sup>1</sup> Phase (Forward/Reverse) Dimming to 1%/5% | blank Standard volt. 120V, 60Hz                 | CV <sup>1</sup> (Constant Voltage, 12Vdc) |
| ELL-2"LJSES Square | NC New Construction | 10L 850      | 30K 3000K                   | 9 90+ |                           | DM 0-10V Dimming to 1%/5%                                 |                                                 | CV <sup>2</sup> (Constant Voltage, 24Vdc) |
| ELL-3"LJRER Round  |                     | 12L 1020     | 35K 3500K                   |       | NSP Narrow Spot 15°       |                                                           | UNV <sup>1</sup> Universal volt. 100-277V, 60Hz | CV <sup>3</sup> (Constant Voltage, 36Vdc) |
| ELL-3"LJSES Square |                     | 14L 1190     | 40K 4000K                   |       | SP Spot 24°               | DMX DMX with RDM dimming to < 0.1%                        |                                                 | CV <sup>4</sup> (Constant Voltage, 42Vdc) |
| ELL-4"LJRER Round  |                     | 16L 1380     | 50K 5000K                   |       | MD Medium 36°             | DALI DALI Dimming to 1%                                   |                                                 | CV <sup>5</sup> (Constant Voltage, 48Vdc) |
| ELL-4"LJSES Square |                     | 18L 1530     | 3CCT 3CCT                   |       | WD Wide Flood 55°         | 3 IN 1 Triac/Elv/0-10V Dimming to 1%/5%                   |                                                 |                                           |
|                    |                     | 20L 1700     | 5CCT 5CCT                   |       |                           |                                                           |                                                 |                                           |
|                    |                     | Doubles      | WD <sup>1</sup> 3000K-1800K |       |                           |                                                           |                                                 |                                           |
|                    |                     | 212L 2125    | WD <sup>2</sup> 2700K-1800K |       |                           |                                                           |                                                 |                                           |
|                    |                     | 214L 2380    |                             |       |                           |                                                           |                                                 |                                           |
|                    |                     | 218L 3060    |                             |       |                           |                                                           |                                                 |                                           |
|                    |                     | 220L 3400    |                             |       |                           |                                                           |                                                 |                                           |

**NOTE: 2" 12W Max. | 3" 20W Max | 4" 30W Max | 3" Double 40W Max | 4" Double 60W Max**

#### Brackets & Finish

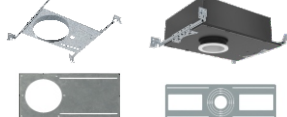
| Mounting Bracket                | Trim Style          | Trim Color Options |
|---------------------------------|---------------------|--------------------|
| blank Remodel                   | RT Round Trim       | MW Matte White     |
| RP Rough In Plate               | RTL Round Trimless  | MB Matte Black     |
| BK Mount plate with hanger bars | ST Square Trim      | MS Matte Silver    |
| SH IC Shallow housing           | STL Square Trimless | GB Gun Black       |
|                                 | DT Double Trim      | SP Specular        |
|                                 | DTL Double Trimless | CG Chrome Gold     |
|                                 | PH Pin-Hole Trim    | CT Customized      |
|                                 | OH Oval Hole Trim   |                    |
|                                 | WW Wash Washer Trim |                    |

#### ASSESSORY AVAILABLE

##### Push-in plastic /Clamp Connector



##### New Construction Plate/Housing



##### Extension Cable-2Pin/3 Pin



6ft/10ft/20ft

##### EM Backup LED Driver



5W / 8W  
90mins



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PROJECT: \_\_\_\_\_

TYPE: \_\_\_\_\_

LOCATION: \_\_\_\_\_

NOTE: \_\_\_\_\_

## INSTRUCTION OF RECESSED LED DOWNLIGHT



**IMPORTANT:** READ ALL INSTRUCTIONS BEFORE INSTALLATING FIXTURES. KEEP FOR FUTURE REFERENCE.



**SAFETY:** FOR YOUR SAFETY, THIS FIXTURE MUST BE WIRED IN ACCORDANCE TO LOCAL ELECTRICAL CODES AND ORDINANCES. ALL WORK SHOULD BE DONE BY A QUALIFIED ELECTRICIAN.



**WARNING:** MAKE SURE POWER IS OFF FROM THE ELECTRICAL PANEL BEFORE STARTING INSTALLATION OR ATTEMPTING ANY MAINTENANCE. INDOOR INSTALLATION ONLY.

### TOOLS REQUIRED:

- Saw
- Measuring Tape
- Electrical Wiring (use type and gauge suitable for application to connect the fixtures)

### PRE-INSTALLATION:

1. Turn power OFF from the electrical panel before starting installation.
2. Locate a suitable position to place the fixture and open in accordance to the cut-hole dimensions (refer to Hole Cut Table for appropriate size).
3. Run electrical wire from the switch (power supply) through the mounting hole- use NMD90 Romex

### DRIVER WIRING:

1. Open the hardwire box swing cover and remove the appropriate knockout(s).
2. Insert the electrical supply cable through the knockout and secure with a cable connector (sold separately).
3. On each push-in terminal, connect green ground wire of cable to green wire on box.  
Connect black wire of cable to black wire of box. (Fig.1)
4. Place all wiring and connections back into the box and close the cover.
5. Insert hardwire box through the mounting hole. (Fig.3)

**NEW CONSTRUCTION APPLICATIONS:** Hardwire box shall be firmly secured to studs, joists, or similar fixed structural units.

**REMODEL APPLICATIONS:** Do not require the hardwire box to be firmly secured after the mounting plates, studs, joists, or structural units have been concealed.

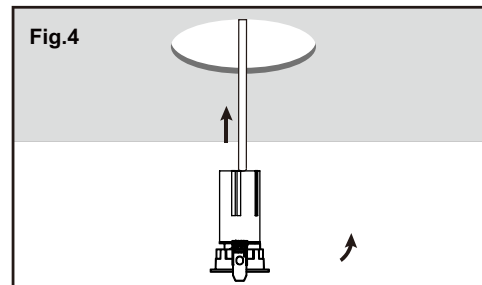
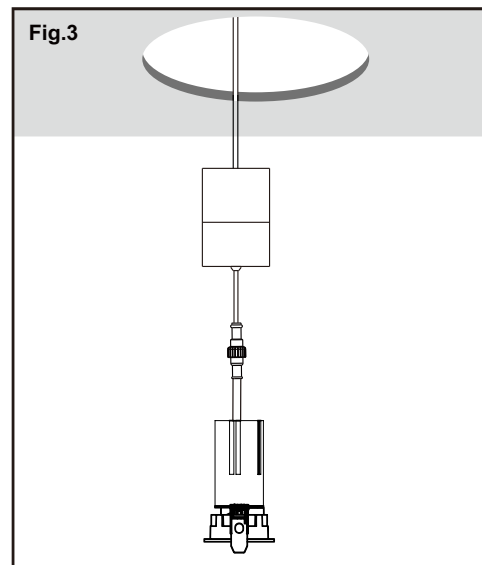
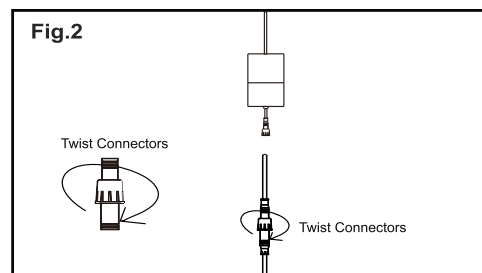
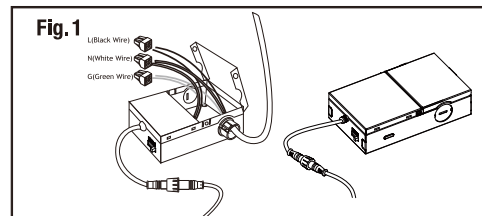
### FIXTURE INSTALLATION:

1. Connect the fixture to the hardwire box by inserting and twisting the male/female connectors and use switch to select Color Temperature. (Fig.2)
2. Push spring loaded clips on the fixture upwards and insert fixture base into the mounting hole. Release the clips and fixture will be pulled flush to the ceiling. (Fig.4)
3. Once assembly is complete, turn on power to confirm fixture is working properly.

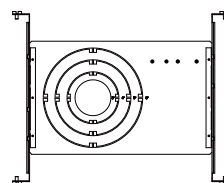
**WARNING - RISK OF ELECTRIC SHOCK. DISCONNECT MAIN POWER AT FUSE OR CIRCUIT BREAKER BEFORE INSTALLING OR SERVICING THE FIXTURE.**

Please read carefully and save these instructions as you may need them at a later date.

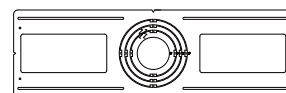
GENERAL: All electrical connections must be in accordance with local and National Electrical Code (N.E.C.) standards. If you are unfamiliar with proper electrical wiring connections obtain the services of a qualified electrician. Remove the KIT from the box and make sure that no parts are missing by referencing the PARTS illustrations.



### OPTIONAL ACCESSORIES



New Construction  
Mounting Bracket



New Construction Mounting  
Rough In Plate