CAUTION: BEFORE CONNECTING THE LUMINAIRE TO A POWER SUPPLY, MAKE SURE THE POWER IS SWITCHED OFF.

Concrete Pour Installation

DETAILED ILLUSTRATION

FC OUTDOOR LIGHTING

GENERAL:
1. Before starting the installation, make sure all electricity has been turned off and electrical breaker has been locked out and tagged out.

2. To ensure the success of the installation, be sure to read these instructions and review the diagrams thoroughly before beginning.

3. All electrical connections must be in accordance with local codes, ordinances, or the National Electrical Code.

4. These luminaires are intended to be mounted directly to the building structure, over the electrical junction box or conduit outing.

5. All luminaires to be installed by a qualified electrician.

NOTE: The important safeguards and instructions appearing in this manual are not meant to cover all possible conditions and situations that may occur.

INSTALLATION:
1. Make sure proper drainage is arranged to avoid accumulation of water around the luminaire. French Drain recommended in clay type soil. Add several inches of stone at the bottom of the Well Housing, as illustrated.
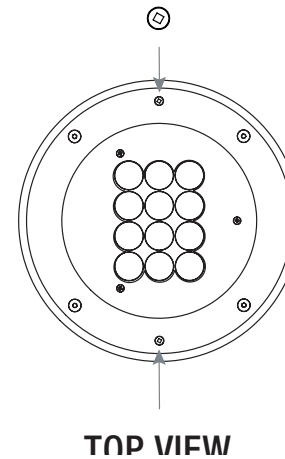
2. Remove Square Drive Screws from Face Plate. This will allow the plastic Well Housing to be removed from the luminaire.

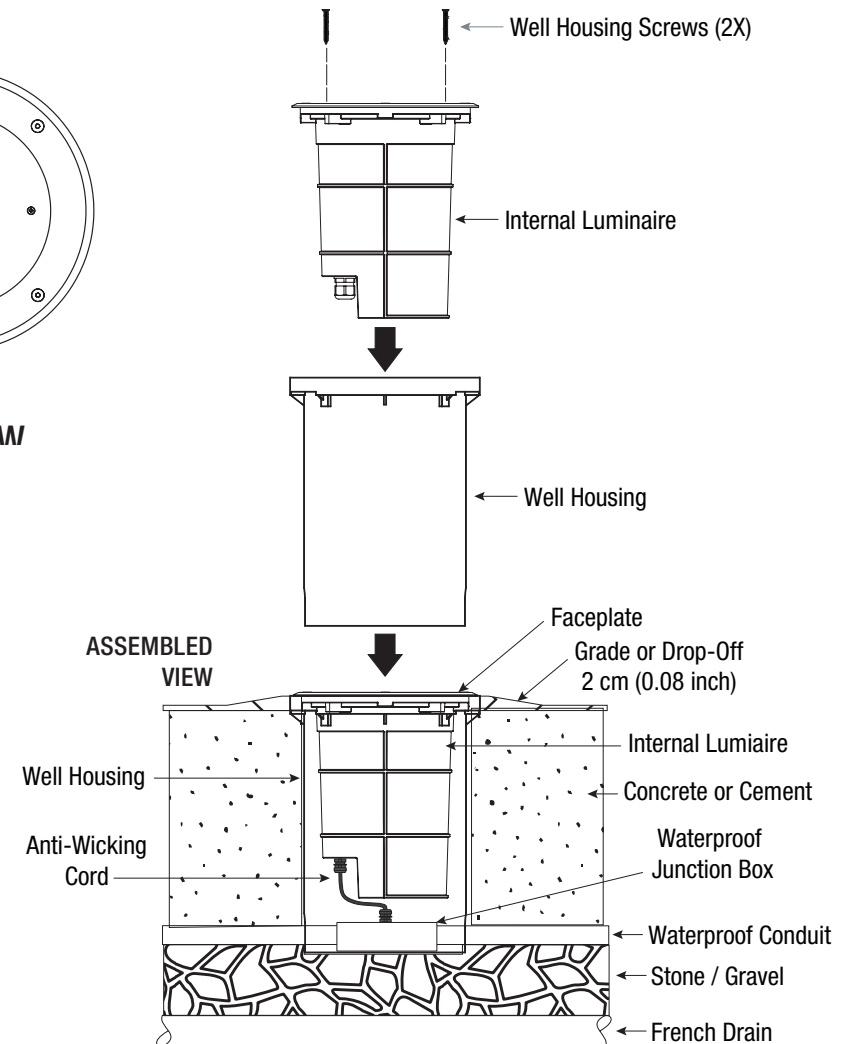**NOTE**: **DO NOT REMOVE** Hex Drive Screws from the faceplate.

3. Insert and set the Well Housing in the ground. Make sure the installation height is within 2 cm above grade. This will promote water run-off on the finished ground surface.

4. After concrete is in place, level the Well Housing so it is flush with the pavement surface.

5. Connect wiring, by running cord to a waterproof Junction Box or in accordance with local codes or NEC standards. Use silicone filled (waterproof) wire nuts to make connections where needed. Luminaire is provided with 5 FT cord.

NOTE: The FCD803-RGBW has an Ingress Protection 67 rating (IP67), meaning it is impenetrable to dust and can survive immersion in water for 30 minutes.

(2X) Square Drive Screws (Well Housing Screws)

TOP VIEW

Well Housing Screws (2X)

Internal Luminaire

Well Housing

Faceplate

Grade or Drop-Off 2 cm (0.08 inch)

Internal Lumiaire

Concrete or Cement

Waterproof Junction Box

Waterproof Conduit

Stone / Gravel

French Drain

ASSEMBLED VIEW

Well Housing

Anti-Wicking Cord

FCD803-RGBWii

© FC LIGHTING.

RF-DM-012325

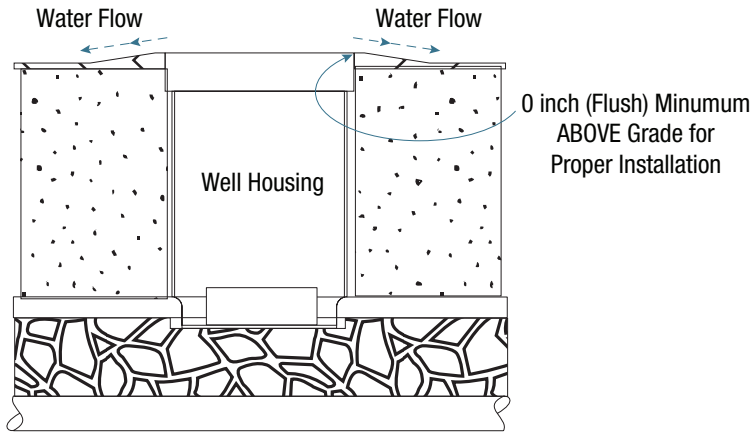## FCD803-RGBW, 8" Recessed Inground — INSTALLATION INSTRUCTIONS

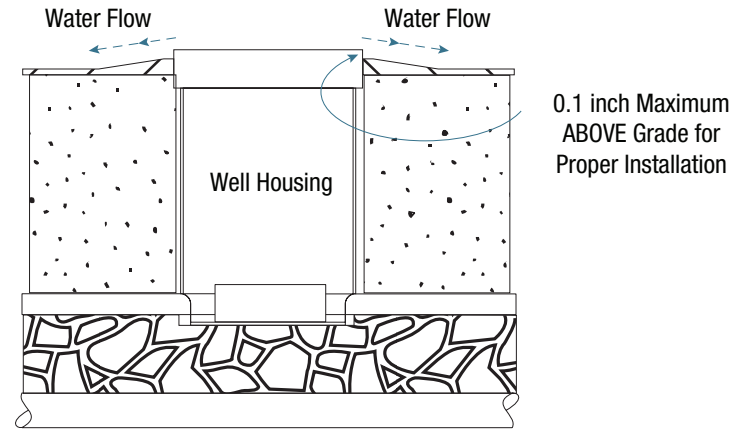**CAUTION**: BEFORE CONNECTING THE LUMINAIRE TO A POWER SUPPLY, MAKE SURE THE POWER IS SWITCHED OFF.

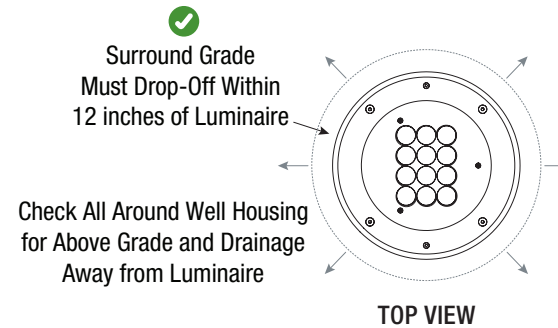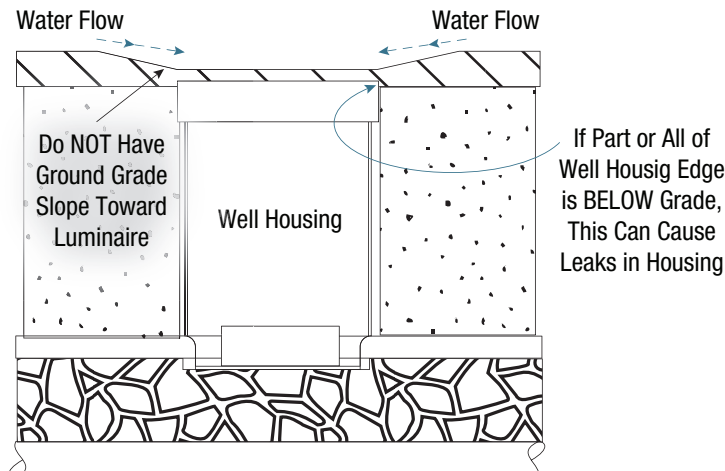### Concrete Pour Installation Side Views

DETAILED ILLUSTRATION

FC OUTDOOR LIGHTING

www.fclighting.com
3609 Swenson Ave.
St. Charles, IL 60174

✅ **CORRECT: WELL HOUSING FLUSH TOP**

Water Flow   Water Flow

Well Housing

0 inch (Flush) Minumum ABOVE Grade for Proper Installation

✅ **CORRECT: WELL HOUSING ABOVE GRADE**

Water Flow   Water Flow

Well Housing

0.1 inch Maximum ABOVE Grade for Proper Installation

❌ **NOT CORRECT: WELL HOUSING BELOW GRADE**

Water Flow   Water Flow

Do NOT Have Ground Grade Slope Toward Luminaire

Well Housing

If Part or All of Well Housig Edge is BELOW Grade, This Can Cause Leaks in Housing

✅

Surround Grade Must Drop-Off Within 12 inches of Luminaire

Check All Around Well Housing for Above Grade and Drainage Away from Luminaire

TOP VIEW

FCD803-RGBWii

RF-DM-012325

CAUTION: BEFORE CONNECTING THE LUMINAIRE TO A POWER SUPPLY, MAKE SURE THE POWER IS SWITCHED OFF.

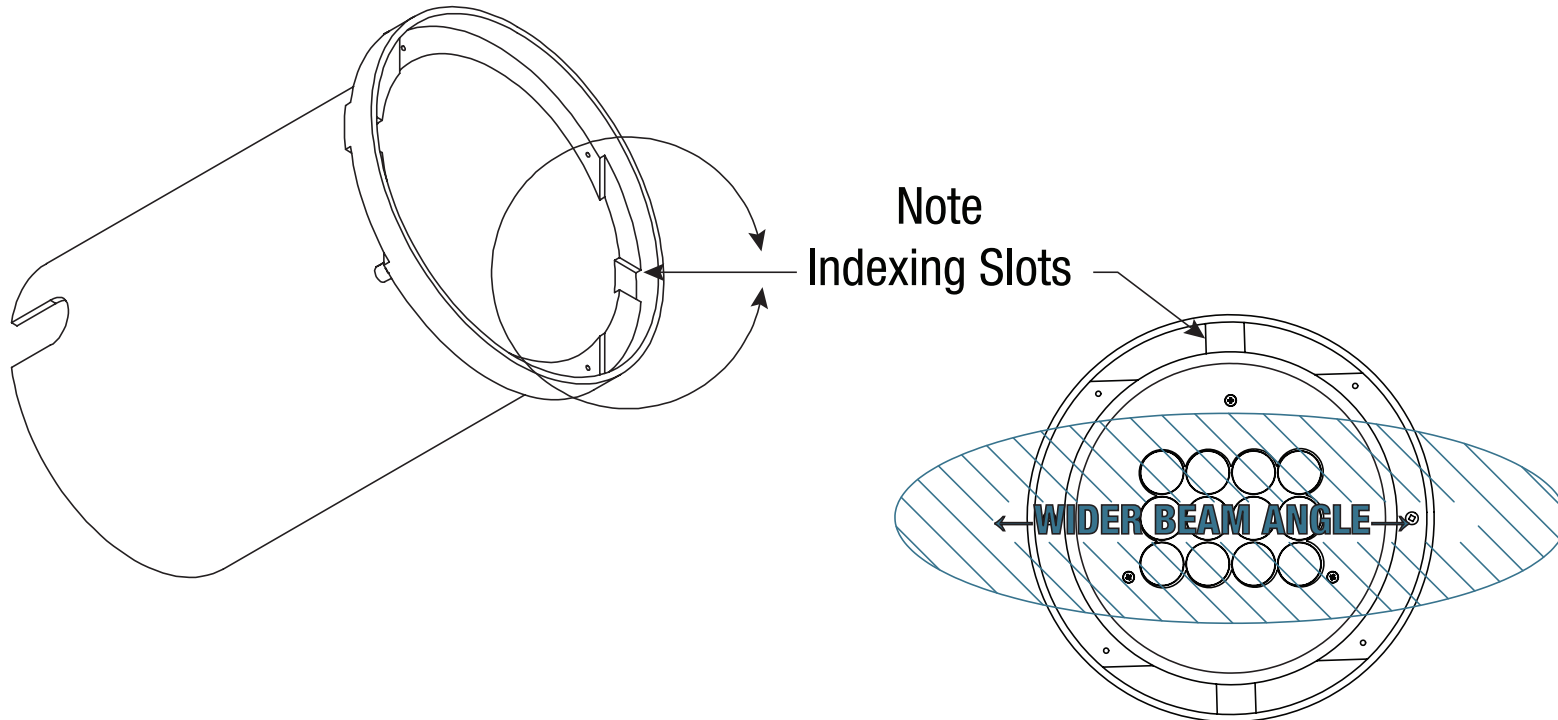## ASYMMETRICAL LENS OPTIONS

DETAILED ILLUSTRATION

WARNING:

For asymmetric beam angles (Such as 15° x 90°), specific precautions must be taken when installing the well housing. **Failure to follow guidelines can result in misaligned luminaires and beam angles.**

When installing the well housing, note the two indexing slots on either side of the housing. Use these two slots to aim the luminaire's final beam target. **The wider beam angle will always be perpendicular to the two slots.**

NOTE: Additional holes can be cut into the well housing to accommodate conduit entry.

Note
Indexing Slots

WIDER BEAM ANGLE

FCD803-RGBWii

RF-DM-012325

CAUTION: BEFORE CONNECTING THE LUMINAIRE TO A POWER SUPPLY, MAKE SURE THE POWER IS SWITCHED OFF.

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SINGLE SEGMENT CONFIGURATION EXAMPLES

DETAILED ILLUSTRATION

STANDARD CONFIGURATION:
1. DMX-RDM Controller (**Figure 1**)
2. DMX Data Cable DXC-xx or CD-xx (CSC only) (**Figure 2**)
3. RGBW Flood (with standard 5-Pin cord whip) (**Figure 3**)
4. Controller Data Cables/DMX Cables are exterior rated (by others). (Belden 3105A or equivalent) CD-XX cables have male XLR at one end. (**Figure 4**)

AC POWER: Supplied by others in various methods; to each luminaire separately, in separate conduits, or in the same conduit (Cables with same voltage rating).

GENERAL:
1. Before starting the installation, make sure all electricity has been turned off and electrical breaker has been locked out and tagged out.
2. To ensure the success of the installation, be sure to read these instructions and review the diagrams thoroughly before beginning.
3. All electrical connections must be in accordance with local codes, ordinances, or the National Electrical Code.
4. Do not exceed the luminaire specified voltage.
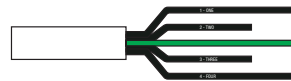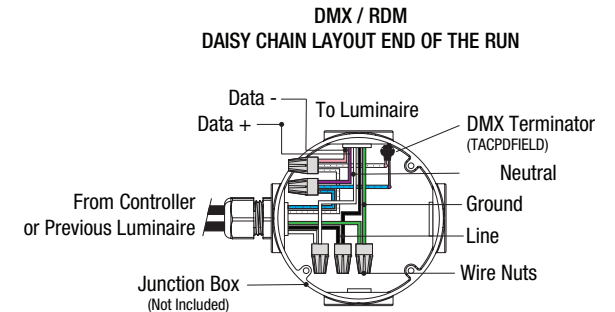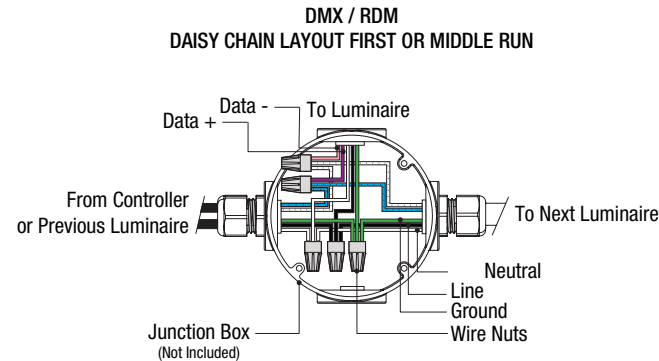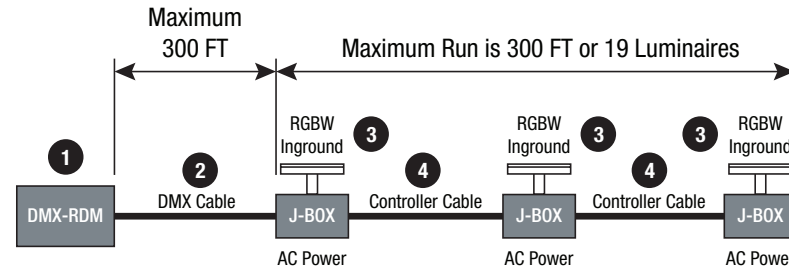5. The luminaire cord should be fed through the top knockout hole of the junction box.

NOTE: The important safeguards and instructions appearing in this manual are not meant to cover all possible conditions and situations that may occur.

INSTALLATION:
1. Verify Physical Layout Plan

   A. Ensure all hardware is present.

   B. Ensure all electrical feeds are correctly positioned with all hardware and any other active components.

   C. Confirm DMX Addressing Plane.

      i. SSL recommends pre-addressing luminaires before mounting installation.

      ii. Ensure that addressing is documented for future upgrading, configuring, or troubleshooting.

      iii. Create an addressing table to document all luminaire IDs and their physical location.

NOTICE:
- UL wiring details shown
- **DMX terminator is required at the end of each run to maintain data integrity (TCAPFIELD)**

Maximum 300 FT

Maximum Run is 300 FT or 19 Luminaires

RGBW Inground — 3
RGBW Inground — 3
RGBW Inground — 3

1 — DMX-RDM
2 — DMX Cable
J-BOX — 4 Controller Cable — J-BOX — 4 Controller Cable — J-BOX

AC Power   AC Power   AC Power

**DMX / RDM
DAISY CHAIN LAYOUT FIRST OR MIDDLE RUN**

Data + — Data - — To Luminaire
From Controller or Previous Luminaire
To Next Luminaire
Neutral
Line
Ground
Wire Nuts
Junction Box (Not Included)

**DMX / RDM
DAISY CHAIN LAYOUT END OF THE RUN**

Data - — Data + — To Luminaire
DMX Terminator (TACPDFIELD)
From Controller or Previous Luminaire
Neutral
Ground
Line
Wire Nuts
Junction Box (Not Included)

1 - ONE — Line
2 - TWO — Neutral
3 - THREE — DMX Data+
4 - FOUR — DMX Data-
Green — Ground

UL Color Code	CE Color Code	Usage	Wire Code
Black	Brown	Line (100 - 277 VAC)	1 - ONE
White	Blue	Line, Neutral	2 - TWO
Green	Yellow/Green	Ground	Green
Purple/Blue (0-10V +)	Purple	Data +	3 - THREE
Pink/White (0-10V -)	Orange	Data -	4 - FOUR