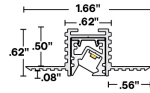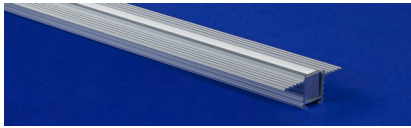# MICRO 5 POP MUD-IN-ENCAPSULATED (03) FOR TUNABLE APPLICATIONS

## 24VDC Linear Fixtures - Recessed

- MICRO 5 Series linear LED fixture designed to provide superior light performance and uniformity with discreet integration into drywall
- Two-piece mud-in fixture
- Features high quality LED strips encapsulated in polyurethane in a rigid extrusion providing a robust fixture
- Asymmetric fixture with an 80° focused beam 20° off-nadir
- Once installed, its wings are covered with tape and compound to create a seamless look
- Used in applications where CCT and brightness need to be controlled separately
- When using DALI and DMX power supplies, LED wattage must be doubled

## ORDERING PROCESS

**A** Specify LED Fixture  **B** Specify MUD-IN Housing

## A. LED FIXTURE

| A1 | A2 | A3 | A4 | A5 | A6 | A7 | A8 | A9 | A10 | A11 | A12 | A13 | A14 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PRODUCT | WATTS/FT | CCT | RATED | LENS | WIRE INPUT/OUTPUT | CONNECTOR/WIRE IN | CONNECTOR/WIRE OUT | WIRE COLOR | WIRE TYPE | MOUNTING | FINISH | LENGTH (IN) | EXACT/OPTIMAL |
| | 2.0 | | ENC | TL | | | | | | | | | |

Sample Part Number: **POP-MD-03-DW-2.0-24/30-ENC-TL-S1A-BW-CLS-WH-CL2-SP-ST-48"-E**

### A1 PRODUCT

**POP-MD-03-DW**
**POP-MD-03-DW-USA**

Select USA option for BAA and BABA projects.

LED engine is built with 3 wires requiring 0-10V, DMX or DALI control. Using DALI, DMX, or non QTL power supplies may double watts/ft. See following pages for compatible power supplies.

### A2 WATTS/FT

**2.0**  2.0W/ft

### A3 CCT

| | |
|---|---|
| **24/30** | 2400K/3000K |
| **27/40** | 2700K/4000K |

### A4 RATED

**ENC**  IP67

### A5 LENS

**TL**  Translucent

For representation of LED visibility, see Diode Visibility section on following pages. For beam angles, see Photometric Performance section on following pages

### A6 WIRE INPUT/OUTPUT

| | |
|---|---|
| **S1A** | Single 1 (Input only) - End Feed |
| **S1B** | Single 1 (Input only) - End Feed |
| **S2A** | Single 2 (Input only) - Bottom Feed |
| **S2B** | Single 2 (Input only) - Bottom Feed |

For continuous mounting, consider bottom feed.

| | |
|---|---|
| **P1A** | Pass Through 1 (Input/output) - End Feed |
| **P1B** | Pass Through 1 (Input/output) - End Feed |
| **P2A** | Pass Through 2 (Input/output) - Bottom Feed |
| **P2B** | Pass Through 2 (Input/output) - Bottom Feed |

For continuous mounting, consider bottom feed.

### A7 CONNECTOR/WIRE IN

**BW**  Bare Wire (Standard 24")

BW: Standard length is 24", Max length is 120". Request custom length by writing in part number next to BW (example: BW48)

**BW**  Bare Wire (Standard 24")

BW: Standard length is 24", Max length is 120". Request custom length by writing in part number next to BW (example: BW48)

### A8 CONNECTOR/WIRE OUT

**CLS**  Closed End (No feed)

**BW**  Bare Wire (Standard 24")

BW: Standard length is 24", Max length is 120". Request custom length by writing in part number next to BW (example: BW48)

### A9 WIRE COLOR

| | |
|---|---|
| **WH** | White |
| **BK** | Black |

### A10 WIRE TYPE

| | |
|---|---|
| **CL2** | Class 2 |
| **CL2P** | Plenum Rated |

CL2P only available with bare wire leads (BW)

### A11 MOUNTING

| | |
|---|---|
| **SC** | Screw |
| **SP** | Spring Clip |

For either mounting option POP-MD-MNT-KIT is required for mounting POP into the Mud-In Channel

### A12 FINISH

| | |
|---|---|
| **ST** | Satin |
| **BK** | Black |
| **BZ** | Bronze |
| **WH** | White |
| **CU** | Custom |

Custom finishes have longer lead times. Non-RAL 9003 whites custom.

### A13 LENGTH (IN)

Minimum length is 12", maximum length is 98.43" not including end caps. Contact us for lengths under 12".

### A14 EXACT/OPTIMAL

| | |
|---|---|
| **E** | Exact specified length |
| **O** | Optimal illumination |

Exact fixtures match the exact length you specify, but they may have dim spots at the ends. Optimal fixtures are slightly shorter than the length specified, but provide full illumination from end to end.

5 year warranty | Warranty only valid with QTL power supplies | Field modifications void warranty | Data subject to change, all data has +/- 5% tolerance

## B. MUD-IN HOUSING

| B1 | B2 |
|---|---|
| **PRODUCT** | **LENGTH** |
| POP-MD | |

Sample Part Number: **POP-MD-FCN**

**B1**

| PRODUCT |
|---|
| **POP-MD** |

**B2**

| LENGTH | |
|---|---|
| **FCN** | Field Cuttable |
| **CTL** | Cut to Length |

Full length 98.43" housings will be sent for field cuttable specifications. Quantity will be determined by dividing the POP fixture measurements by 98.43 and rounding up.
Cut to length housing specifications will be the length of the POP fixture specified, plus .125" for endcaps.
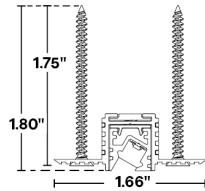
## A1  PRODUCT - DIMENSIONS
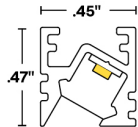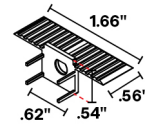


Profile
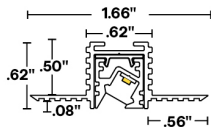
Profile with mud-in accessory
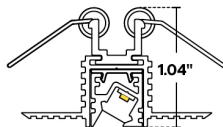
Profile with mud-in accessory and spring clip
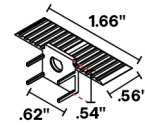
Profile with mud-in accessory and screw mount

## END CAPS

Flat end caps



Feed

To order separately, use
POP-EC-MDIN-A-ST

Feed

To order separately, use
POP-EC-MDIN-B-ST

## A2  DELIVERED LUMENS

[Calculated L70 = 40000 hrs]
Tested with POP-03-DW-2.0-**-ENC

|  | 3000K | |
| --- | --- | --- |
|  | LM/FT | CRI |
| TL | 60 | 95 |

## A5  DIODE VISIBILITY

  ENC/TL - Translucent encapsulation

## TEMPERATURE RATINGS

|  | DW 2.0 W/FT | | DW 4.0 W/FT | |
| --- | --- | --- | --- | --- |
|  | QTL power supply other than DALI, DMX | | DALI, DMX, or non-QTL power supply | |
|  | Min | Max | Min | Max |
| Ambient Operating Temp - Recessed | -4°F | 120°F | -4°F | 100°F |

## A6 WIRE INPUT/OUTPUT

ASYMMETRIC ONLY SINGLE (Input only)

| S1A | S2A | S1B | S2B |
|---|---|---|---|
| IN | IN IN | IN | IN |
| End Feed | Bottom Feed | End Feed | Bottom Feed |
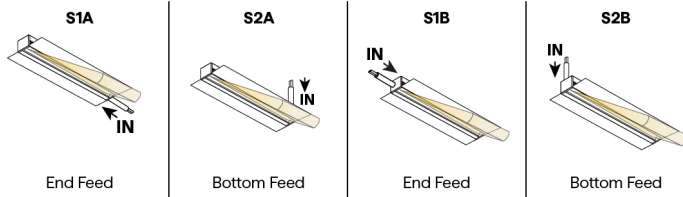
ASYMMETRIC ONLY PASS THROUGH (Input/Output)

| P1A | P1B | P2A | P2B |
|---|---|---|---|
| OUT IN | IN OUT | OUT IN | IN OUT |
| End Feed | End Feed | Bottom Feed | Bottom Feed |

## CONFIGURATION OPTIONS



S1B
.06" width of end cap
.06" width of end cap
Single End Feed

S1A
.06" width of end cap
.06" width of end cap
Single End Feed

S1A
P1A
Connection by others
Non-Continuous End Feed

P1B
S1B
Connection by others
Non-Continuous End Feed

S1A
P1A
Connection by others
Non-Continuous Corner Feed

P1B
S1B
Connection by others
Non-Continuous Corner Feed

P2B
S2B
.12" width of end caps
Continuous Bottom Feed

S2A
P2A
.12" width of end caps
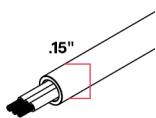Continuous Bottom Feed

S1B
S1A
.12" width of end caps
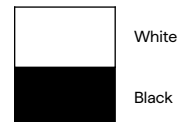Continuous End to End Feed

## A7 / A8 CONNECTOR/WIRE – IN/OUT

Connector/Wire In or Out not needed to specify product. Typical selection is S1 for Wire Input/Output, BW for Connector/Wire In, N/A for Connector/Wire Out
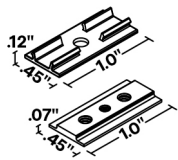
BW
.15"
Bare Wire 24"
22 AWG

## A9 WIRE COLOR

White

Black

## A11 MOUNTING

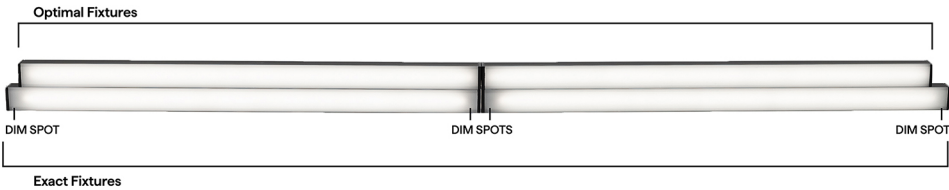| POP-MD-MNT-KIT | SP | 832 | SC |
|---|---|---|---|
| .12" .45" 1.0" .07" .45" 1.0" | 1.09" | 832 | 1.75" .26" |
| Plastic Clip Kit | Spring Clip | 832 Silicone | Screw |
| 2 clips provided for 4' or less; 4 clips provided for greater than 4' | Only to be used with mud-in accessory | Sold separately | 6 #6x1.75" flat head screws are provided for each full length of MUD-IN |
| To order separately use POP-MD-MNT-KIT | 4 clips provided for each full length of MUD-IN | | |
| Each clip comes with a #4 x 3/16 Flat Head SS" and two #6 x 1/8" long set screws | To order separately use SP-02 | | |

## A12 FINISH

- Satin
- Black
- Bronze
- White

Custom finishes require a longer lead time, consult factory

## 15 EXACT/OPTIMAL FIXTURE LENGTH

Exact fixtures are the exact length specified. Optimal fixtures' length is rounded down based on LED cut points to allow the fixture to be illuminated end to end. For runs with multiple fixtures that need to fill a specific length, it's recommended to order all optimal fixtures with an exact fixture at the end of the run.

Optimal Fixtures

DIM SPOT          DIM SPOTS          DIM SPOT

Exact Fixtures

Specification subject to change. Rev-01-13-26
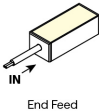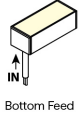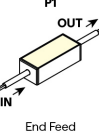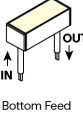
## DW ENC LENGTHS BY INCH

### EXACT LENGTH

| Requested Length | Potential dim spot on either end of a S1 fixture<br>S1<br>End Feed |
|---|---|
| 12" | 1" |
| 13" | 0.5" |
| 14" | 1" |
| 15" | 0.5" |
| 16" | 1" |
| 17" | 0.5" |
| 18" | 1" |
| 19" | 0.5" |
| 20" | 1" |
| 21" | 0.5" |
| 22" | 1" |
| 23" | 0.5" |
| 24" | 1" |
| 36" | 1" |
| 48" | 1" |
| 60" | 1" |
| 72" | 1" |
| 84" | 1" |
| 96" | 1" |

### OPTIMAL LENGTH

| Requested Nominal Length | S1A/B & S2A/B | | P1A/B & P2A/B | |
|---|---|---|---|---|
| | S1<br>End Feed | S2<br>Bottom Feed | P1<br>End Feed | P2<br>Bottom Feed |
| 12" | 10.50" | | 10.75" | |
| 13" | 12.50" | | 12.75" | |
| 14" | 12.50" | | 12.75" | |
| 15" | 14.50" | | 14.75" | |
| 16" | 14.50" | | 14.75" | |
| 17" | 16.50" | | 16.75" | |
| 18" | 16.50" | | 16.75" | |
| 19" | 18.50" | | 18.75" | |
| 20" | 18.50" | | 18.75" | |
| 21" | 20.50" | | 20.75" | |
| 22" | 20.50" | | 20.75" | |
| 23" | 22.50" | | 22.75" | |
| 24" | 22.50" | | 22.75" | |
| 36" | 34.50" | | 34.75" | |
| 48" | 46.50" | | 46.75" | |
| 60" | 58.50" | | 58.75" | |
| 72" | 70.50" | | 70.75" | |
| 84" | 82.50" | | 82.75" | |
| 96" | 94.50" | | 94.75" | |

## A14 EXACT/OPTIMAL FIXTURE LENGTH

Exact fixtures are the exact length specified. Optimal fixtures' length is rounded down based on LED cut points to allow the fixture to be illuminated end to end. For runs with multiple fixtures that need to fill a specific length, it's recommended to order all optimal fixtures with an exact fixture at the end of the run.

Optimal Fixtures



DIM SPOT    DIM SPOTS    DIM SPOT

Exact Fixtures
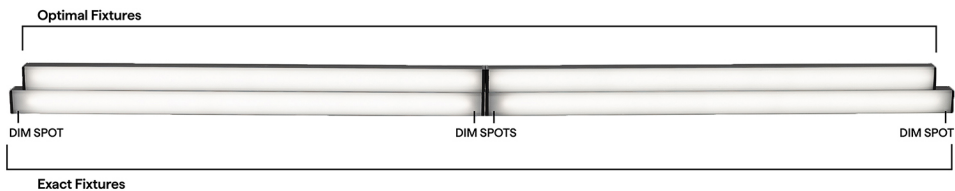
## COMPATIBLE POWER SUPPLIES

See power supplies cut sheets for more information. Data subject to change, all data has +/- 5% tolerance.

| DIM TO LEVEL | INDOOR | OUTDOOR |
|---|---|---|
| | MICRO 5-DW Tunable Applications | MICRO 5-DW Tunable Applications |
| 0.1% | QT-CAB-eLED+DALI-DT6<br>QT-CAB-eLED+DALI-DT8<br>QT-CAB-eLED+DALI-DT8-AWN<br>QT-CAB-eLED+TW<br>QT-CAB-eLED+TW-AWN<br>QTM-eLED+DALI-DT6<br>QTM-eLED+DALI-DT8<br>QTM-eLED+DALI-DT8-AWN<br>QTM-eLED+TW<br>QTM-eLED+TW-AWN | Q-SET-QZ-DMX<br>QOM-eLED+DALI-DT6<br>QOM-eLED+DALI-DT8<br>QOM-eLED+PS-DALI-DT6<br>QOM-eLED+PS-DALI-DT8<br>QOM-eLED+TW |
| 1% | QZ-DALI-DT8 | Q-SET+QZ-DALI-DT8<br>QZ-DALI-DT8 |
| 10% | Non-Dim Power Supply with TW App Dongle | |

| DIMMING PROTOCOL | INDOOR | OUTDOOR |
|---|---|---|
| | MICRO 5-DW Tunable Applications | MICRO 5-DW Tunable Applications |
| 0-10V | QT-CAB-eLED+TW<br>QT-CAB-eLED+TW-AWN<br>QTM-eLED+TW<br>QTM-eLED+TW-AWN | QOM-eLED+TW |
| Lutron Athena | QT-CAB-eLED+DALI-DT8-AWN<br>QT-CAB-eLED+TW-AWN<br>QTM-eLED+DALI-DT8-AWN<br>QTM-eLED+TW-AWN | |
| DMX<br>LED wattage must<br>be doubled<br>for DW-HE products | | Q-SET-QZ-DMX |
| DALI-2: DT6<br>LED wattage must<br>be doubled<br>for DW-HE products<br>except for AWN | QT-CAB-eLED+DALI-DT6<br>QTM-eLED+DALI-DT6 | QOM-eLED+DALI-DT6 |
| DALI-2: DT8<br>LED wattage must<br>be doubled<br>for DW-HE products<br>except for AWN | QT-CAB-eLED+DALI-DT8<br>QT-CAB-eLED+DALI-DT8-AWN<br>QTM-eLED+DALI-DT8<br>QTM-eLED+DALI-DT8-AWN<br>QZ-DALI-DT8 | Q-SET+QZ-DALI-DT8<br>QOM-eLED+DALI-DT8<br>QZ-DALI-DT8 |
| SCENE App Dimmed | Non-Dim Power Supply with TW App Dongle | |

## COMPATIBLE WIRING ACCESSORIES

**Q-mini-J5**

2.80"

2.27"
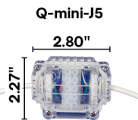
UL Listed, miniature
junction box, DRY/DMP
(WET rated with silicone)

## COMPATIBLE CONTROL ACCESSORIES

**SCENE APP DONGLE**



1.36"

2.58"

Wi-Fi or Bluetooth
Connectivity

## COMPATIBLE APPS

**NFC APP**



Read and write
DMX addresses and
adjust voltage