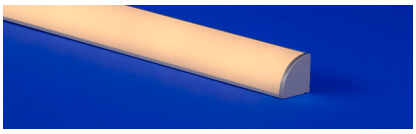
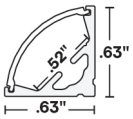
# ESSENTIALS ARKA-FLAT (01) FOR TUNABLE APPLICATIONS

24VDC Linear Fixtures - Corner & Surface

WHITE OPTICS | c UL us LISTED | NEC 410.2 & 410.16 Closet Rated in 1.5HE | RoHS COMPLIANT | EPD ENVIRONMENTAL PRODUCT DECLARATION | 5 YEAR WARRANTY | BAA BUY AMERICAN ACT COMPLIANT | BABA BUILD AMERICA, BUY AMERICA COMPLIANT | Red List Approved Declare.






- Corner and surface mount linear fixture with rounded lens
- Choose from diffused, polar, frosted, or clear lens options for varying diode visibility and beam angles
- Mounting options include stainless steel or plastic clips
- Features painted end caps to match extrusion finish
- Suitable for installation in the storage area of a clothes closet when specified with LEDs at 4.0 watts or less per foot per NEC regulations
- Can be suitable for exterior use when specified as wet, contact factory for more information
- Used in applications where CCT and brightness need to be controlled separately
- When using DALI and DMX power supplies, LED wattage must be doubled

| 1 PRODUCT | 2 WATTS/ FT | 3 CCT | 4 RATED | 5 EFFICIENCY | 6 LENS | 7 WIRE INPUT/ OUTPUT | 8 CONNECTOR/ WIRE IN | 9 CONNECTOR/ WIRE OUT | 10 WIRE COLOR | 11 WIRE TYPE | 12 MOUNTING | 13 FINISH | 14 LENGTH (IN) | 15 EXACT/ OPTIMAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | |

Sample Part Number: **AK1DW-2.5HE-20/30-DRY-STD-DF-P1-BW-BW-BK-CL2-SST-BK-48"-E**

## 1 PRODUCT

**AK1DW**
**AK1DW-USA**

Select USA option for BAA and BABA projects. Only DRY or WET ratings apply.

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.

## 2 WATTS/FT

**1.5HE** 1.5W/ft HE
**2.5HE** 2.5W/ft HE

**1.5HE** 1.5W/ft HE
**2.5HE** 2.5W/ft HE

## 3 CCT

**20/27** 2000K/2700K
**20/30** 2000K/3000K
**27/40** 2700K/4000K
**27/55** 2700K/5500K

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

## 4 RATED

**DRY** IP20
**WET** IP67

Can be suitable for exterior use, contact factory for more information

**DMP** IP54

## 5 EFFICIENCY

**STD** Standard
**WO** White Optics

WhiteOptics - Internal coating, greater lumen output

## 6 LENS

**DF** Diffused
**PR** Polar
**FR** Frosted
**CL** Clear

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

## 7 WIRE INPUT/OUTPUT

**S1** Single 1 (Input only) - End Feed

**P1** Pass Through 1 (Input/output) - End Feed

## 8 CONNECTOR/WIRE IN

**BW** Bare Wire (Standard 24")
**CON6** Connector 6"
**CON24** Connector 24"

**BW** Bare Wire (Standard 24")
**CON6** Connector 6"
**CON24** Connector 24"

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

## 9 CONNECTOR/WIRE OUT

**CLS** Closed End (No feed)

**BW** Bare Wire (Standard 24")
**CON6** Connector 6"
**CON24** Connector 24"

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

## 10 WIRE COLOR

**WH** White
**BK** Black

## 11 WIRE TYPE

**CL2** Class 2
**CL2P** Plenum Rated

CL2P only available with bare wire leads (BW)

## 12 MOUNTING

**SST** Stainless Steel
**PL** Plastic Clip

## 13 FINISH

**ST** Satin
**BK** Black
**BZ** Bronze
**CU** Custom

Custom finishes require a longer lead time, consult factory

## 14 LENGTH (IN)

Minimum length is 12", maximum length is 98" not including end caps. Contact us for lengths under 12".

## 15 EXACT/OPTIMAL

**O** Optimal Illumination
**E** Exact Specified Length

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. See Exact/Optimal Fixture Length charts.

© 2026 QTL. All rights reserved | 155 Hill St. Milford, CT 06460 | 203-367-8777 | sales@QTL.lighting | www.QTL.lighting

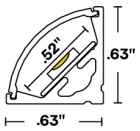


5 year warranty | Warranty only valid with QTL power supplies | Field modifications void warranty | Data subject to change, all data has +/- 5% tolerance

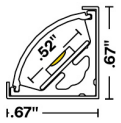
# ESSENTIALS ARKA-FLAT (01) FOR TUNABLE APPLICATIONS

24VDC Linear Fixtures - Corner & Surface

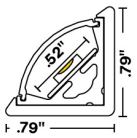
## 1 PRODUCT - DIMENSIONS




Profile




Profile with stainless steel mounting clip




Profile with plastic mounting clip

## 2 DELIVERED LUMENS

[Calculated L70 = 70000 hrs]
Tested with AK1DW-**-30-DRY-STD

| | 1.5HE W/FT | | 2.5HEW/FT | |
|---|---|---|---|---|
| | LM/FT | CRI | LM/FT | CRI |
| CL | 154 | 98 | 244 | 98 |
| FR | 150 | 98 | 236 | 98 |
| PR | 147 | 98 | 232 | 98 |
| DF | 134 | 98 | 211 | 98 |

[Calculated L70 = 70000 hrs]
Tested with AK1DW-**-30-DRY-WO

| | 1.5HE W/FT | | 2.5HEW/FT | |
|---|---|---|---|---|
| | LM/FT | CRI | LM/FT | CRI |
| CL | 160 | 98 | 253 | 98 |
| FR | 158 | 98 | 250 | 98 |
| PR | 153 | 98 | 242 | 98 |
| DF | 142 | 98 | 225 | 98 |

## 6 DIODE VISIBILITY

DF - Diffused lens

PR - Polar lens

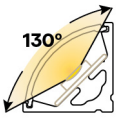
FR - Frosted lens

CL - Clear lens

## PHOTOMETRIC PERFORMANCE

Nominal beam spread shown, beam spread varies based on light engine. For more detailed information, see photometric data.

**CL**




Clear 130°

© 2026 QTL. All rights reserved | 155 Hill St. Milford, CT 06460 | 203-367-8777 | sales@QTL.lighting | www.QTL.lighting

# ESSENTIALS ARKA-FLAT (01) FOR TUNABLE APPLICATIONS

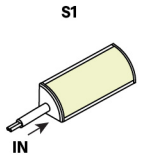
24VDC Linear Fixtures - Corner & Surface

## TEMPERATURE RATINGS

| | | DW 1.5 HE W/FT | | DW 3.0 HE W/FT | | DW 2.5 HE W/FT | | DW 5.0 HE W/FT | |
|---|---|---|---|---|---|---|---|---|---|
| | | QTL power supply other than DALI, DMX | | DALI, DMX, or non-QTL power supply | | QTL power supply other than DALI, DMX | | DALI, DMX, or non-QTL power supply | |
| | | Min | Max | Min | Max | Min | Max | Min | Max |
| DRY | Ambient Operating Temp - Surface | -4°F | 145°F | -4°F | 130°F | -4°F | 140°F | -4°F | 120°F |
| DMP | Ambient Operating Temp - Surface | -4°F | 140°F | -4°F | 125°F | -4°F | 135°F | -4°F | 115°F |
| WET | Ambient Operating Temp - Surface | -4°F | 140°F | -4°F | 125°F | -4°F | 135°F | -4°F | 115°F |

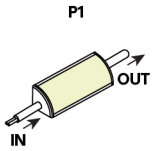
## 7 WIRE INPUT/OUTPUT

SINGLE (Input only)



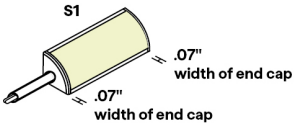

End Feed

PASS THROUGH (Input/Output)

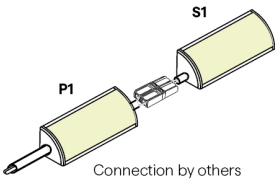



End Feed

## CONFIGURATION OPTIONS

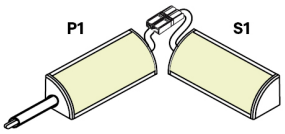



Single End Feed



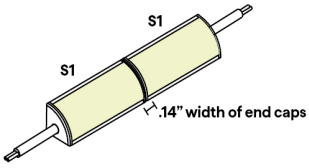

Connection by others

Non-Continuous End Feed




Connection by others

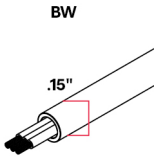
Non-Continuous Corner Feed



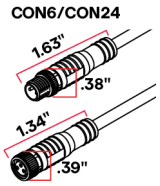

Continuous End to End Feed

## 8 / 9 CONNECTOR/WIRE – IN/OUT

Connector/Wire In or Out not needed to specify product. Standard configuration is BW for Wire In and CLS for Wire out

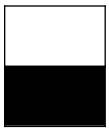



Bare Wire 24"
22 AWG




6" or 24" Overall
Wire Connector | 22 AWG
IP67 Rated, UL Listed

## 10 WIRE COLOR



White

Black

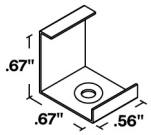
© 2026 QTL. All rights reserved | 155 Hill St. Milford, CT 06460 | 203-367-8777 | sales@QTL.lighting | www.QTL.lighting

# ESSENTIALS ARKA-FLAT (01) FOR TUNABLE APPLICATIONS

24VDC Linear Fixtures - Corner & Surface

## 12 MOUNTING

**SST**



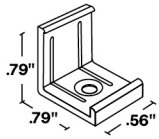

Stainless Steel Clip

2 clips provided for 4' or less; 4 clips provided for greater than 4'

To order separately use SST-03

Each clip comes with a #4 x 5/8" Flat Head SS

**PL**




Plastic Clip

2 clips provided for 4' or less; 4 clips provided for greater than 4'

To order separately use PLC-02

Each clip comes with a #4 x 5/8" Flat Head SS

## 13 FINISH

Satin

Black

Bronze

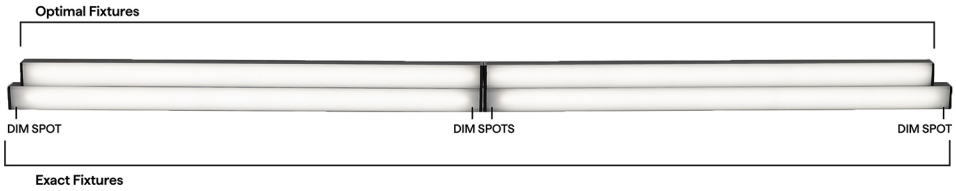
Custom finishes require a longer lead time, consult factory

## 14 EXACT/OPTIMAL FIXTURE LENGTH

E/O Length Calculator →

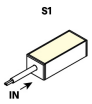
E/O Explained →

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.

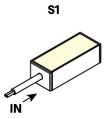
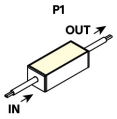



## DW-HE DRY DMP LENGTHS BY INCH

### EXACT LENGTH

| Requested Length | Potential dim spot on either end of a S1 fixture   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 | S1   End Feed | P1   End Feed |
|---|---|---|
| 12" | 11.49" | 11.14" |
| 13" | 12.49" | 12.14" |
| 14" | 13.49" | 13.14" |
| 15" | 14.49" | 14.14" |
| 16" | 15.49" | 15.14" |
| 17" | 16.49" | 16.14" |
| 18" | 17.49" | 17.14" |
| 19" | 18.49" | 18.14" |
| 20" | 19.49" | 19.14" |
| 21" | 20.49" | 20.14" |
| 22" | 21.49" | 21.14" |
| 23" | 22.49" | 22.14" |
| 24" | 23.49" | 23.14" |
| 36" | 35.49" | 35.14" |
| 48" | 47.49" | 47.14" |
| 60" | 59.49" | 59.14" |
| 72" | 71.49" | 71.14" |
| 84" | 83.49" | 83.14" |
| 96" | 95.49" | 95.14" |

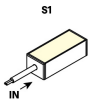
© 2026 QTL. All rights reserved | 155 Hill St. Milford, CT 06460 | 203-367-8777 | sales@QTL.lighting | www.QTL.lighting

# ESSENTIALS ARKA-FLAT (01) FOR TUNABLE APPLICATIONS

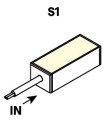
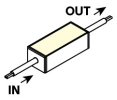
24VDC Linear Fixtures - Corner & Surface

## DW-HE WET LENGTHS BY INCH

### EXACT LENGTH

| Requested Length | Potential dim spot on either end of a S1 fixture   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 | S1   End Feed | P1   End Feed |
|---|---|---|
| 12" | 11.34" | 10.94" |
| 13" | 12.34" | 11.94" |
| 14" | 13.34" | 12.94" |
| 15" | 14.34" | 13.94" |
| 16" | 15.34" | 14.94" |
| 17" | 16.34" | 15.94" |
| 18" | 17.34" | 16.94" |
| 19" | 18.34" | 17.94" |
| 20" | 19.34" | 18.94" |
| 21" | 20.34" | 19.94" |
| 22" | 21.34" | 20.94" |
| 23" | 22.34" | 21.94" |
| 24" | 23.34" | 22.94" |
| 36" | 35.34" | 34.94" |
| 48" | 47.34" | 46.94" |
| 60" | 59.34" | 58.94" |
| 72" | 71.34" | 70.94" |
| 84" | 83.34" | 82.94" |
| 96" | 95.34" | 94.94" |

## 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 |
|---|---|---|
| | DW-HE Tunable Applications | DW-HE 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<br>QZ-DMX | 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<br>QZ-DMX |
| 1% | QZ-DALI-DT8 | Q-SET+QZ-DALI-DT8<br>QZ-DALI-DT8 |
| 10% | Non-Dim Power Supply with TW App Dongle | |

© 2026 QTL. All rights reserved | 155 Hill St. Milford, CT 06460 | 203-367-8777 | sales@QTL.lighting | www.QTL.lighting

# ESSENTIALS ARKA-FLAT (01) FOR TUNABLE APPLICATIONS

24VDC Linear Fixtures - Corner & Surface

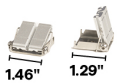
| DIMMING PROTOCOL | INDOOR | OUTDOOR |
|---|---|---|
| | **DW-HE Tunable Applications** | **DW-HE Tunable Applications** |
| **0-10V** | QT-CAB-eLED+TW<br>QT-CAB-eLED+TW-AWN<br>QTM-eLED+TW<br>QTM-eLED+TW-AWN | QOM-eLED+TW |
| **Lutron Athena** | QT-CAB-eLED+DALI-DT8-AWN<br>QT-CAB-eLED+TW-AWN<br>QTM-eLED+DALI-DT8-AWN<br>QTM-eLED+TW-AWN | |
| **DMX**<br>LED wattage must be doubled for DW-HE products | QZ-DMX | Q-SET-QZ-DMX<br>QZ-DMX |
| **DALI-2: DT6**<br>LED wattage must be doubled for DW-HE products except for AWN | QT-CAB-eLED+DALI-DT6<br>QTM-eLED+DALI-DT6 | QOM-eLED+DALI-DT6 |
| **DALI-2: DT8**<br>LED wattage must be doubled for DW-HE products 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 MOUNTING ACCESSORIES

**HINGE - HMB-M**

Adjustable mounting bracket - Medium

**HINGE - HMB-L**




Adjustable mounting bracket - Large

**HINGE - HMB-XL**

Adjustable mounting bracket - XLarge

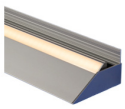
**Q-PIVOT**

Small mounting accessory

**Q-ANGLE**

Adjustable mounting accessory

**QUOVA-STANDARD**

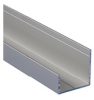


QUOVA Knife Edge

**VHB**

Double sided mounting tape

**SD-J-LARGE**



J Mounting Bracket

**NL-LARGE**

L Mounting Bracket

**SD-L-MEDIUM**

L Mounting Bracket

© 2026 QTL. All rights reserved | 155 Hill St. Milford, CT 06460 | 203-367-8777 | sales@QTL.lighting | www.QTL.lighting