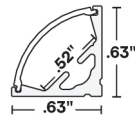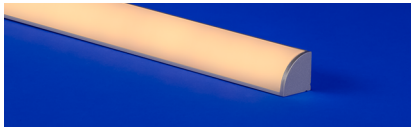# ESSENTIALS ARKA-FLAT (01) SW-IA

24VDC Linear Fixtures - Corner & Surface

- 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
- Utilize DMX and SPI protocols to control nominal 1" segments of specifiable white LEDs

52° .63" .63"

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
AK1IA	5.0		DRY											

Sample Part Number: **AK1IA-5.0-30-DRY-STD-DF-P1-BW-BW-BK-CL2-SST-BK-48"-E**

1 PRODUCT

AK1IA

See following pages for compatible power supplies.

2 WATTS/FT

5.0 5.0W/ft

3 CCT

27	2700K
30	3000K
35	3500K
40	4000K

4 RATED

DRY IP20

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: 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")
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.
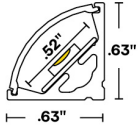
5 year warranty | Warranty only valid with QTL power supplies | Field modifications void warranty | Data subject to change, all data has +/- 5% tolerance
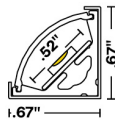
ESSENTIALS ARKA-FLAT (01) SW-IA
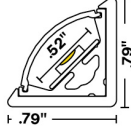## 24VDC Linear Fixtures - Corner & Surface

1 PRODUCT - DIMENSIONS

.52" .63"
.63"
Profile

.52" .67"
.67"
Profile with stainless steel mounting clip

.52" .79"
.79"
Profile with plastic mounting clip
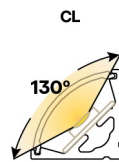
6 DIODE VISIBILITY

DF - Diffused lens

PR - Polar lens

FR - Frosted lens

CL - Clear lens

PHOTOMETRIC PERFORMANCE

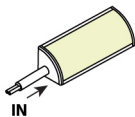Nominal beam spread shown, beam spread varies based on light engine. For more detailed information, see photometric data.

CL

130°

Clear 130˚

7 WIRE INPUT/OUTPUT

SINGLE (Input only)
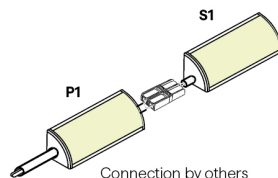
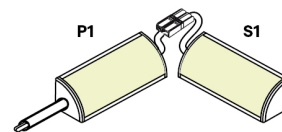**S1**

IN

End Feed

PASS THROUGH (Input/Output)
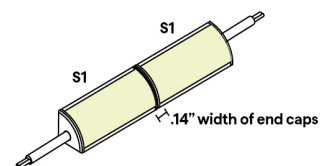
P1

OUT

IN
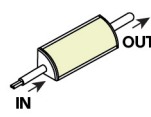
End Feed

CONFIGURATION OPTIONS

S1

.07" width of end cap

.07" width of end cap

Single End Feed

S1

P1
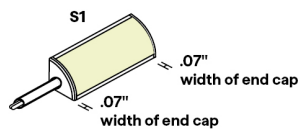
Connection by others

Non-Continuous End Feed

P1   **S1**

Connection by others

Non-Continuous Corner Feed

S1

S1
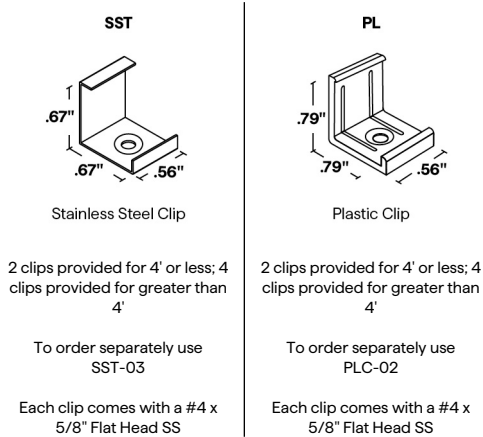
.14" width of end caps

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
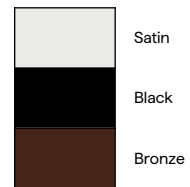
BW

.15"

Bare Wire 24"
22 AWG

CON6/CON24

1.63"

.38"

1.34"

.39"

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

10 WIRE COLOR

White

Black

12 MOUNTING

SST

.67"

.67"   .56"

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

.79"

.79"   .56"

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

15 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.

Optimal Fixtures
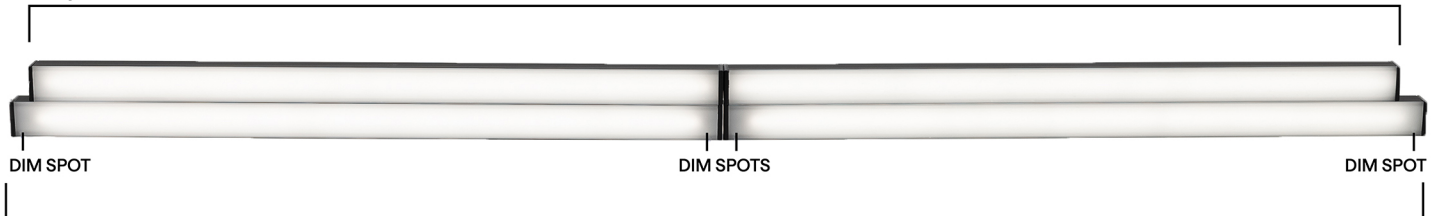
DIM SPOT   DIM SPOTS   DIM SPOT

Exact Fixtures

Specification subject to change. Rev-09-22-25

SW-IA DRY LENGTHS BY INCH

Available in any length in between 12" and 98.43", chart below shows example lengths. Exact fixtures are the length specified. Optimal fixtures' length is rounded down with illumination end to end. All fixtures' tolerance is +0 – 1/8". Consult factory for lengths under 12".

EXACT LENGTH

Requested Length	Potential dim spot on either end of fixture
12"	.975"
13"	1.475"
14"	.3"-1.975"
15"	.8"
16"	1.3"
17"	1.8"
18"	.625"
19"	1.125"
20"	1.625"
21"	.45"
22"	.95"
23"	1.45"
24"	1.95"
36"	1.25"
48"	0.55"
60"	1.525"
72"	0.825"
84"	1.8"
96"	1.1"

OPTIMAL LENGTH: highlighted rows are closest to requested nominal length

Requested Nominal Length	S1 (End Feed)	P1 (End Feed)
12"	10.46"	10.71"
13"	10.46"	10.71"
14"	13.81"	10.71"
15"	13.81"	14.06"
16"	13.81"	14.06"
17"	13.81"	14.06"
18"	17.16"	17.41"
19"	17.16"	17.41"
20"	17.16"	17.41"
21"	20.51"	20.76"
22"	20.51"	20.76"
23"	20.51"	20.76"
24"	23.86"	20.76"
36"	33.91"	34.16"
48"	47.31"	47.56"
60"	57.36"	57.61"
72"	70.76"	71.01"
84"	80.81"	81.06"
96"	94.21"	94.46"

COMPATIBLE POWER SUPPLIES

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

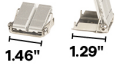| DIM TO LEVEL	INDOOR
	SW-IA
1%	QT-CAB-eLED+IA QTM-eLED+IA
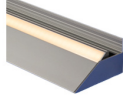
DIMMING PROTOCOL	INDOOR
	SW-IA
DMX	QT-CAB-eLED+IA QTM-eLED+IA
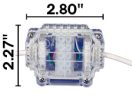
COMPATIBLE MOUNTING ACCESSORIES

HINGE - HMB-M

1.41"   .71"

Adjustable mounting bracket - Medium

HINGE - HMB-L

1.46"   1.29"

Adjustable mounting bracket - Large

HINGE - HMB-XL

4"
1.46"

Adjustable mounting bracket - XLarge

Q-PIVOT

.75"
1.03"

Small mounting accessory

Q-ANGLE

2.23"
1.38"

Adjustable mounting accessory

QUOVA-STANDARD

QUOVA Knife Edge

VHB

Double sided mounting tape

SD-J-LARGE

J Mounting Bracket

NL-LARGE

L Mounting Bracket

NJ-MEDIUM

J Mounting Bracket

SD-L-MEDIUM

L Mounting Bracket

COMPATIBLE WIRING ACCESSORIES

Q-mini-J5

2.80"
2.27"

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

CON120-EXT

10ft Con cable extender DRY/DMP/WET

COMPATIBLE CONTROL ACCESSORIES

SCENE APP DONGLE

1.36"
2.58"

Wi-Fi or Bluetooth Connectivity