

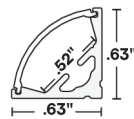
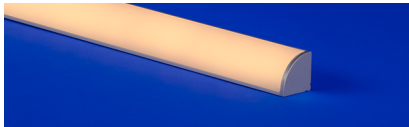


# ESSENTIALS ARKA-FLAT (01) WARM DIM APPLICATIONS

24VDC Linear Fixtures - Corner & Surface



410.2 & 410.16  
Closet Rated  
in 1.5HE



- 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 to provide warmer CCTs as the light is dimmed
- When using DALI and DMX power supplies, LED wattage must be doubled

## INFORMATION REQUIRED FOR LIGHTING SCHEDULE

1	2	3	4	5	6
PRODUCT	WATTS/ FT	CCT	RATED	EFFICIENCY	LENS

## ADDITIONAL INFORMATION REQUIRED TO ORDER

7	8	9	10	11	12	13	14	15
WIRE INPUT/ OUTPUT	CONNECTOR/ WIRE IN	CONNECTOR/ WIRE OUT	WIRE COLOR	WIRE TYPE	MOUNTING	FINISH	LENGTH (IN)	EXACT/ OPTIMAL

Sample Part Number: **AK1WD-6.0-19/30-DRY-STD-DF-P1-BW-BW-BK-CL2-SST-BK-48"-E**

<div>1</div> <div>PRODUCT</div> <div><div>AK1WD</div><div>LED engine is built with 2 wires suitable for phase dimming control. See following pages for compatible power supplies.</div></div> <div><div>AK1DW</div><div>AK1DW-USA</div><div>Select USA option for BAA and BABA projects. Only DRY or WET ratings apply.</div><div>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.</div></div>	<div>2</div> <div>WATTS/FT</div> <div><div>6.0</div><div>6.0W/ft</div></div> <div><div>1.5HE</div><div>1.5W/ft HE</div><div>2.5HE</div><div>2.5W/ft HE</div></div> <div><div>1.5HE</div><div>1.5W/ft HE</div><div>2.5HE</div><div>2.5W/ft HE</div></div>	<div>3</div> <div>CCT</div> <div><div>19/27</div><div>1900K/2700K</div><div>19/30</div><div>1900K/3000K</div></div> <div><div>20/27</div><div>2000K/2700K</div><div>20/30</div><div>2000K/3000K</div><div>27/40</div><div>2700K/4000K</div><div>27/55</div><div>2700K/5500K</div></div> <div><div>24/30</div><div>2400K/3000K</div><div>27/40</div><div>2700K/4000K</div></div>	<div>4</div> <div>RATED</div> <div><div>DRY</div><div>IP20</div><div>WET</div><div>IP67</div><div>Can be suitable for exterior use, contact factory for more information</div></div> <div><div>DRY</div><div>IP20</div><div>WET</div><div>IP67</div><div>Can be suitable for exterior use, contact factory for more information</div></div> <div><div>DMP</div><div>IP54</div></div>	<div>5</div> <div>EFFICIENCY</div> <div><div>STD</div><div>Standard</div><div>WO</div><div>White Optics</div><div>WhiteOptics - Internal coating, greater lumen output</div></div>	<div>6</div> <div>LENS</div> <div><div>DF</div><div>Diffused</div><div>PR</div><div>Polar</div><div>FR</div><div>Frosted</div><div>CL</div><div>Clear</div></div> <div>For representation of LED visibility, see Diode Visibility section on following pages. For beam angles, see Photometric Performance section on following pages</div>
<div>7</div> <div>WIRE INPUT/OUTPUT</div> <div><div>SINGLE (Input only)</div><div>S1</div><div>End Feed</div></div> <div><div>PASS THROUGH (Input/output)</div><div>P1</div><div>End Feed</div></div>	<div>8</div> <div>CONNECTOR/WIRE IN</div> <div><div>BW</div><div>Bare Wire (Standard 24")</div><div>BRL</div><div>Barrel</div><div>CON6</div><div>Connector 6"</div><div>CON24</div><div>Connector 24"</div></div> <div><div>BW</div><div>Bare Wire (Standard 24")</div><div>BRL</div><div>Barrel</div><div>CON6</div><div>Connector 6"</div><div>CON24</div><div>Connector 24"</div></div>	<div>9</div> <div>CONNECTOR/WIRE OUT</div> <div><div>CLS</div><div>Closed End (No feed)</div></div> <div><div>BW</div><div>Bare Wire (Standard 24")</div><div>BRL</div><div>Barrel</div><div>CON6</div><div>Connector 6"</div><div>CON24</div><div>Connector 24"</div></div>	<div>10</div> <div>WIRE COLOR</div> <div><div>WH</div><div>White</div><div>BK</div><div>Black</div><div>N/A</div><div>For Barrel</div></div> <div>wet barrel only available in black</div>		
<div>11</div> <div>WIRE TYPE</div> <div><div>CL2</div><div>Class 2</div><div>CL2P</div><div>Plenum Rated</div><div>N/A</div><div>For Barrel</div></div> <div>CL2P only available with bare wire leads (BW)</div>	<div>12</div> <div>MOUNTING</div> <div><div>SST</div><div>Stainless Steel</div><div>PL</div><div>Plastic Clip</div></div>	<div>13</div> <div>FINISH</div> <div><div>ST</div><div>Satin</div><div>BK</div><div>Black</div><div>BZ</div><div>Bronze</div><div>CU</div><div>Custom</div></div> <div>Custom finishes require a longer lead time, consult factory</div>	<div>14</div> <div>LENGTH (IN)</div> <div><div>Minimum length is 12", maximum length is 98" not including end caps. Contact us for lengths under 12".</div></div>	<div>15</div> <div>EXACT/OPTIMAL</div> <div><div>O</div><div>Optimal Illumination</div><div>E</div><div>Exact Specified Length</div></div> <div>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.</div>	

BRL only available with AK1WD  
BW: Standard length is 24", Max length is 120".  
Request custom length by writing in part number next to BW (example: BW48)

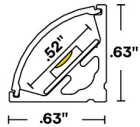
BRL only available with AK1WD  
BW: Standard length is 24", Max length is 120".  
Request custom length by writing in part number next to BW (example: BW48)



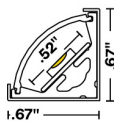
# ESSENTIALS ARKA-FLAT (01) WARM DIM APPLICATIONS

## 24VDC Linear Fixtures - Corner & Surface

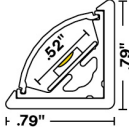
### 1 PRODUCT - DIMENSIONS



Profile



Profile with stainless steel mounting clip



Profile with plastic mounting clip

### 2 DELIVERED LUMENS

[Calculated L70 = 70000 hrs]  
Tested with AK1WD-6.0-30-DRY-STD

	3000K	
	LM/FT	CRI
CL	446	97
FR	434	97
PR	424	97
DF	381	97

[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 AK1WD-6.0-30-DRY-WO

	3000K	
	LM/FT	CRI
CL	474	97
FR	469	97
PR	453	97
DF	422	97

[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

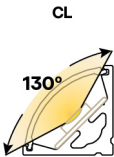
### 6 DIODE VISIBILITY



- 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.



Clear 130°



# ESSENTIALS ARKA-FLAT (01) WARM DIM APPLICATIONS

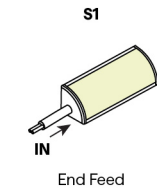
## 24VDC Linear Fixtures - Corner & Surface

### TEMPERATURE RATINGS

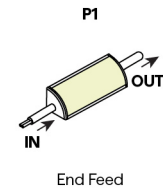
		WD 6.0 W/FT		DW 1.5 HE W/FT		DW 3.0 HE W/FT		DW 2.5 HE W/FT		DW 5.0 HE W/FT	
				QTL power supply other than DALI, DMX		DALI, DMX, or non-QTL power supply		QTL power supply other than DALI, DMX		DALI, DMX, or non-QTL power supply	
		Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
DRY	Ambient Operating Temp - Surface	-4°F	120°F	-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	115°F	-4°F	140°F	-4°F	125°F	-4°F	135°F	-4°F	115°F

### 7 WIRE INPUT/OUTPUT

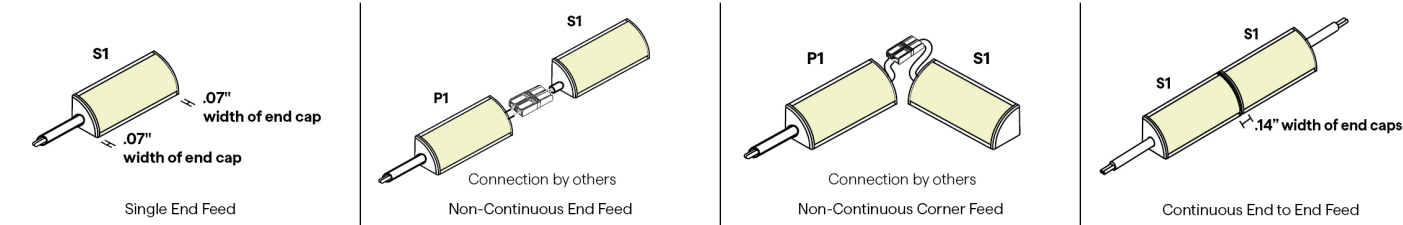
SINGLE (Input only)



PASS THROUGH (Input/Output)

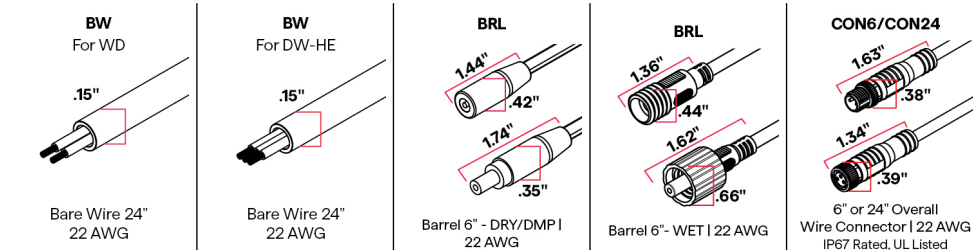


### CONFIGURATION OPTIONS



### 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



### 10 WIRE COLOR





# ESSENTIALS ARKA-FLAT (01) WARM DIM 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

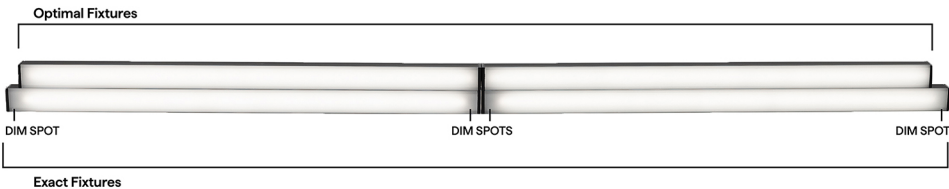
Bronze

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.



### WD DRY LENGTHS BY INCH

#### EXACT LENGTH

Requested Length	Potential dim spot on either end of a S1 fixture S1 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 OUT → End Feed
12"	11.59"	11.34"
13"	12.59"	12.34"
14"	13.59"	13.34"
15"	14.59"	14.34"
16"	15.59"	15.34"
17"	16.59"	16.34"
18"	17.59"	17.34"
19"	18.59"	18.34"
20"	19.59"	19.34"
21"	20.59"	20.34"
22"	21.59"	21.34"
23"	22.59"	22.34"
24"	23.59"	23.34"
36"	35.59"	35.34"
48"	47.59"	47.34"
60"	59.59"	59.34"
72"	71.59"	71.34"
84"	83.59"	83.34"
96"	95.59"	95.34"



# ESSENTIALS ARKA-FLAT (01) WARM DIM APPLICATIONS

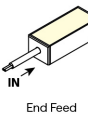
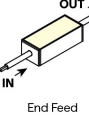
24VDC Linear Fixtures - Corner & Surface

## WD WET LENGTHS BY INCH

### EXACT LENGTH

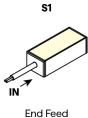
Requested Length	Potential dim spot on either end of a S1 fixture
	
12"	1"
13"	0.5"
14"	1"
15"	0.5"
16"	1"
17"	0.5"
18"	1"
19"	0.5"
20"	1"
21"	0.5"
22"	1"
23"	0.5"
24"	1"
36"	1"
48"	1"
60"	1"
72"	1"
84"	1"
96"	1"

### OPTIMAL LENGTH

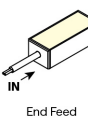
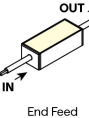
Requested Nominal Length	S1	P1
		
12"	11.39"	11.24"
13"	12.39"	12.24"
14"	13.39"	13.24"
15"	14.39"	14.24"
16"	15.39"	15.24"
17"	16.39"	16.24"
18"	17.39"	17.24"
19"	18.39"	18.24"
20"	19.39"	19.24"
21"	20.39"	20.24"
22"	21.39"	21.24"
23"	22.39"	22.24"
24"	23.39"	23.24"
36"	35.39"	35.24"
48"	47.39"	47.24"
60"	59.39"	59.24"
72"	71.39"	71.24"
84"	83.39"	83.24"
96"	95.39"	95.24"

## DW-HE DRY DMP LENGTHS BY INCH

### EXACT LENGTH

Requested Length	Potential dim spot on either end of a S1 fixture
	
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	P1
		
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"




# ESSENTIALS ARKA-FLAT (01) WARM DIM APPLICATIONS

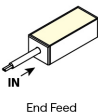
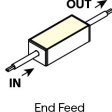
24VDC Linear Fixtures - Corner & Surface

## DW-HE WET LENGTHS BY INCH

### EXACT LENGTH

Requested Length	Potential dim spot on either end of a S1 fixture
	S1
	
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	P1
	S1	P1
		
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 Warm Dim Applications	WD	DW-HE Warm Dim Applications	WD
0.1%	QT-CAB-eLED+DALI-DT6 QT-CAB-eLED+DALI-DT8 QT-CAB-eLED+DALI-DT8-AWN QT-CAB-eLED+WD QT-CAB-eLED+WD-AWN QTM-eLED+DALI-DT6 QTM-eLED+DALI-DT8 QTM-eLED+DALI-DT8-AWN QTM-eLED+WD QTM-eLED+WD-AWN QZ-DW	QT-CAB-QZ-PH/0-10V QT-CAB-eLED+0-10V QT-CAB-eLED+DALI-DT6 QT-CAB-eLED+DALI-DT6-AWN QTM-eLED+0-10V QTM-eLED+DALI-DT6 QTM-eLED+DALI-DT6-AWN QZ-BOWTIE+DIMMER QZ-DMX QZ-PH/0-10V QZ-STICK-PH/0-10V QZLP	Q-SET-QZ-DW QOM-eLED+DALI-DT6 QOM-eLED+DALI-DT8 QOM-eLED+PS-DALI-DT6 QOM-eLED+PS-DALI-DT8 QOM-eLED+WD QZ-DW	Q-SET-QZ-PH/0-10V Q-SET-eLED+0-10V QOM-eLED+0-10V QOM-eLED+DALI-DT6 QOM-eLED+PS-DALI-DT6 QZ-DMX QZ-PH/0-10V
1%	QZ-DALI-DT8	QTM-eLED(E) QZ-DALI-DT6	Q-SET+QZ-DALI-DT8 QZ-DALI-DT8	Q-SET+QZ-DALI-DT6 QZ-DALI-DT6
10%	Non-Dim Power Supply with WD App Dongle	Non-Dim Power Supply with SW App Dongle		

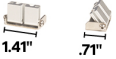




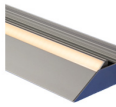







# ESSENTIALS ARKA-FLAT (01) WARM DIM APPLICATIONS

24VDC Linear Fixtures - Corner & Surface

DIMMING PROTOCOL	INDOOR		OUTDOOR	
	DW-HE Warm Dim Applications	WD	DW-HE Warm Dim Applications	WD
Phase	QZ-DW	QT-CAB-QZ-PH/0-10V QTM-eLED(E) QZ-BOWTIE+DIMMER QZ-PH/0-10V QZ-STICK-PH/0-10V QZLP	Q-SET-QZ-DW QZ-DW	Q-SET-QZ-PH/0-10V QZ-PH/0-10V
0-10V	QT-CAB-eLED+WD QT-CAB-eLED+WD-AWN QTM-eLED+WD QTM-eLED+WD-AWN QZ-DW	QT-CAB-QZ-PH/0-10V QT-CAB-eLED+0-10V QTM-eLED+0-10V QZ-PH/0-10V QZ-STICK-PH/0-10V QZLP	Q-SET-QZ-DW QOM-eLED+WD QZ-DW	Q-SET-QZ-PH/0-10V Q-SET-eLED+0-10V QOM-eLED+0-10V QZ-PH/0-10V
Lutron Athena	QT-CAB-eLED+DALI-DT8-AWN QT-CAB-eLED+WD-AWN QTM-eLED+DALI-DT8-AWN QTM-eLED+WD-AWN	QT-CAB-eLED+DALI-DT6-AWN QTM-eLED+DALI-DT6-AWN		
ECO System		QTM-eLED(E)		
DMX If using DW LED, wattage must be doubled		QZ-DMX		QZ-DMX
DALI-2: DT6 If using DW LED, wattage must be doubled except for AWN	QT-CAB-eLED+DALI-DT6 QTM-eLED+DALI-DT6	QT-CAB-eLED+DALI-DT6 QT-CAB-eLED+DALI-DT6-AWN QTM-eLED+DALI-DT6 QTM-eLED+DALI-DT6-AWN QZ-DALI-DT6	QOM-eLED+DALI-DT6	Q-SET+QZ-DALI-DT6 QOM-eLED+DALI-DT6 QZ-DALI-DT6
DALI-2: DT8 If using DW LED, wattage must be doubled except for AWN	QT-CAB-eLED+DALI-DT8 QT-CAB-eLED+DALI-DT8-AWN QTM-eLED+DALI-DT8 QTM-eLED+DALI-DT8-AWN QZ-DALI-DT8		Q-SET+QZ-DALI-DT8 QOM-eLED+DALI-DT8 QZ-DALI-DT8	
SCENE App Dimmed	Non-Dim Power Supply with WD App Dongle	Non-Dim Power Supply with SW App Dongle		

## COMPATIBLE MOUNTING ACCESSORIES

<b>HINGE - HMB-M</b>  1.41" .71" Adjustable mounting bracket - Medium	<b>HINGE - HMB-L</b>  1.46" 1.29" Adjustable mounting bracket - Large	<b>HINGE - HMB-XL</b>  4" 1.46" Adjustable mounting bracket - XLarge	<b>Q-PIVOT</b>  .75" 1.03" Small mounting accessory	<b>Q-ANGLE</b>  2.23" 1.38" Adjustable mounting accessory	<b>QUOVA-STANDARD</b>  QUOVA Knife Edge	<b>VHB</b>  Double sided mounting tape	<b>SD-J-LARGE</b>  J Mounting Bracket	<b>NL-LARGE</b>  L Mounting Bracket	<b>NJ-MEDIUM</b>  J Mounting Bracket
<b>SD-L-MEDIUM</b>  L Mounting Bracket									