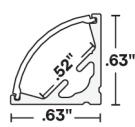




ESSENTIALS ARKA-FLAT (01) SW-HE

24VDC Linear Fixtures - Corner & Surface



white optics

UL LISTED

NEC
410.3 and 410.18
Closet Rated up to 4.0W/ft

RoHS
COMPLIANT

1-BIN
1-STEP

5 YEAR
WARRANTY

BAA
BABA

SW-HE
ONLY



Declare.

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: AK1SW-3.0HE-30-DRY-STD-DF-P1-BW-BW-BK-CL2-SST-BK-48-E

| | | | | | |
|--|---|--|---|---|--|
| 1 PRODUCT AK1SW AK1SW-USA Select USA option for BAA and BABA projects. SW-HE only. Only DRY ratings apply. See following pages for compatible power supplies. | 2 WATTS/FT 1.5HE 1.5W/ft HE 3.0HE 3.0W/ft HE 6.0HE 6.0W/ft HE 3.0HE+ 3.0W/ft HE+ 6.0HE+ 6.0W/ft HE+ 1.5HE 1.5W/ft HE 3.0HE 3.0W/ft HE 6.0HE 6.0W/ft HE 3.0HE+ 3.0W/ft HE+ 6.0HE+ 6.0W/ft HE+ | 3 CCT 20 2000K 22 2200K 24 2400K 27 2700K 30 3000K 35 3500K 40 4000K 27 2700K 30 3000K 35 3500K 40 4000K 24 2400K 27 2700K 30 3000K 35 3500K 40 4000K 27 2700K 30 3000K 35 3500K 40 4000K | 4 RATED DRY IP20 DMP IP54 WET IP67 Can be suitable for exterior use, contact factory for more information | 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 SINGLE (Input only) S1 End Feed | 8 CONNECTOR/WIRE IN BW Bare Wire (Standard 24") BRL Barrel 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) | 10 WIRE COLOR WH White BK Black N/A For Barrel wet barrel only available in black | | |
| PASS THROUGH (Input/output) P1 End Feed | BW Bare Wire (Standard 24") BRL Barrel 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") BRL Barrel 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) | | | |
| 11 WIRE TYPE CL2 Class 2 CL2P Plenum Rated N/A For Barrel 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. | |

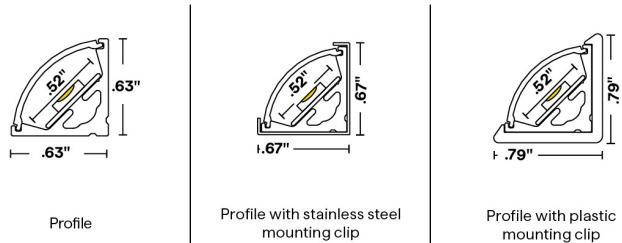
5 year warranty | Warranty only valid with QTL power supplies | Field modifications void warranty | Data subject to change, all data has +/- 5% tolerance



ESSENTIALS ARKA-FLAT (01) SW-HE

24VDC Linear Fixtures - Corner & Surface

1 PRODUCT - DIMENSIONS



2 DELIVERED LUMENS

[Calculated L70 = 66000 hrs, L70 = 55000 for HE+]

Tested with AK1SW-**-30-DRY-STD

| | 1.5HE W/FT | 3.0HE W/FT | 3.0HE+ W/FT | 6.0HE W/FT | 6.0HE+ W/FT | | | | | |
|----|------------|------------|-------------|------------|-------------|-----|-------|-----|-------|-----|
| | LM/FT | CRI | LM/FT | CRI | LM/FT | CRI | LM/FT | CRI | LM/FT | CRI |
| CL | 193 | 98 | 353 | 98 | 509 | 92 | 669 | 98 | 941 | 92 |
| FR | 187 | 98 | 342 | 98 | 493 | 92 | 648 | 98 | 912 | 92 |
| PR | 183 | 98 | 336 | 98 | 485 | 92 | 637 | 98 | 896 | 92 |
| DF | 167 | 98 | 306 | 98 | 442 | 92 | 580 | 98 | 816 | 92 |

[Calculated L70 = 66000 hrs, L70 = 55000 for HE+]

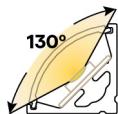
Tested with AK1SW-**-30-DRY-WO

| | 1.5HE W/FT | 3.0HE W/FT | 3.0HE+ W/FT | 6.0HE W/FT | 6.0HE+ W/FT | | | | | |
|----|------------|------------|-------------|------------|-------------|-----|-------|-----|-------|-----|
| | LM/FT | CRI | LM/FT | CRI | LM/FT | CRI | LM/FT | CRI | LM/FT | CRI |
| CL | 200 | 98 | 366 | 98 | 528 | 92 | 694 | 98 | 977 | 92 |
| FR | 198 | 98 | 362 | 98 | 522 | 92 | 686 | 98 | 966 | 92 |
| PR | 191 | 98 | 350 | 98 | 505 | 92 | 663 | 98 | 933 | 92 |
| DF | 178 | 98 | 326 | 98 | 470 | 92 | 617 | 98 | 868 | 92 |

PHOTOMETRIC PERFORMANCE

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

CL



Clear 130°



ESSENTIALS ARKA-FLAT (01) SW-HE

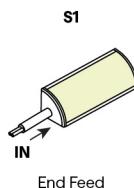
24VDC Linear Fixtures - Corner & Surface

TEMPERATURE RATINGS

| | | 1.5 HE W/FT | | 3.0 HE W/FT | | 3.0 HE+ W/FT | | 6.0 HE W/FT | | 6.0 HE+ W/FT | |
|-----|----------------------------------|-------------|-------|-------------|-------|--------------|-------|-------------|-------|--------------|-------|
| | | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max |
| DRY | Ambient Operating Temp - Surface | -4°F | 145°F | -4°F | 140°F | -13°F | 140°F | -4°F | 120°F | -13°F | 120°F |
| DMP | Ambient Operating Temp - Surface | -4°F | 140°F | -4°F | 135°F | ** | ** | -4°F | 115°F | ** | ** |
| WET | Ambient Operating Temp - Surface | ** | ** | ** | ** | -13°F | 135°F | ** | ** | -13°F | 115°F |

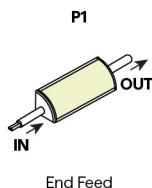
7 WIRE INPUT/OUTPUT

SINGLE (Input only)



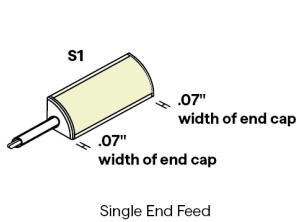
End Feed

PASS THROUGH (Input/Output)

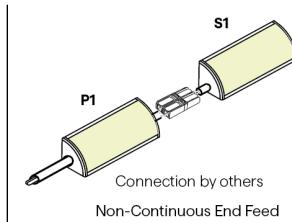


End Feed

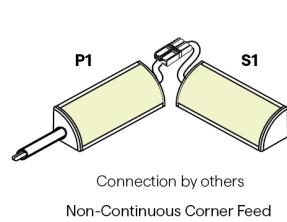
CONFIGURATION OPTIONS



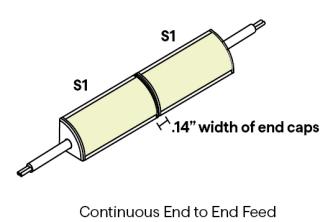
Single End Feed



Non-Continuous End Feed



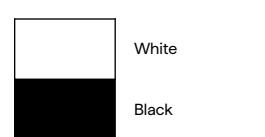
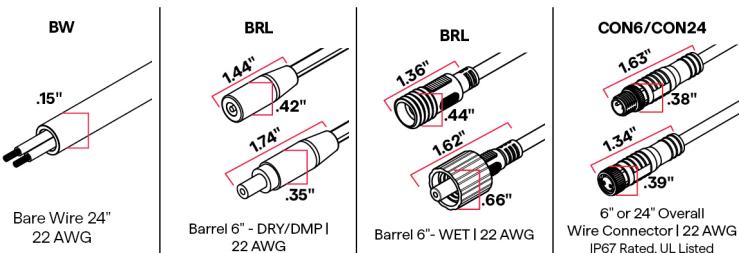
Non-Continuous Corner Feed



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



White

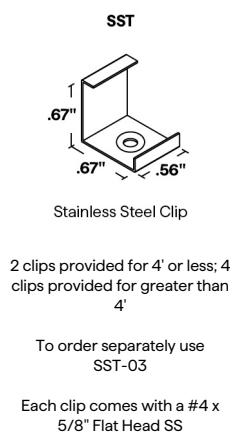
Black



ESSENTIALS ARKA-FLAT (01) SW-HE

24VDC Linear Fixtures - Corner & Surface

12 MOUNTING



13 FINISH



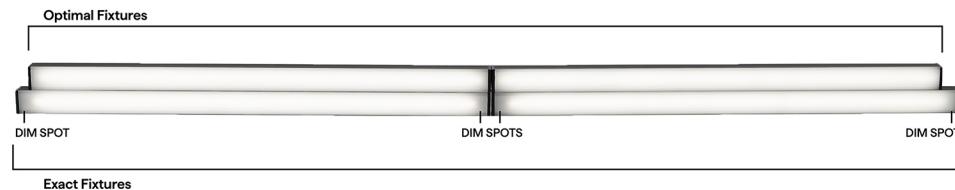
Custom finishes require a longer lead time, consult factory

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.



SW-HE, SW-HE+ DRY, DMP 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" | 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: highlighted rows are closest to requested nominal length

| Requested Nominal Length | S1 | P1 |
|--------------------------|--------|--------|
| 12" | 10.41" | 10.66" |
| 13" | 12.41" | 12.66" |
| 14" | 12.41" | 12.66" |
| 15" | 14.41" | 14.66" |
| 16" | 14.41" | 14.66" |
| 17" | 16.41" | 16.66" |
| 18" | 16.41" | 16.66" |
| 19" | 18.41" | 18.66" |
| 20" | 18.41" | 18.66" |
| 21" | 20.41" | 20.66" |
| 22" | 20.41" | 20.66" |
| 23" | 22.41" | 22.66" |
| 24" | 22.41" | 22.66" |
| 36" | 34.41" | 34.66" |
| 48" | 46.41" | 46.66" |
| 60" | 58.41" | 58.66" |
| 72" | 70.41" | 70.66" |
| 84" | 82.41" | 82.66" |
| 96" | 94.41" | 94.66" |



ESSENTIALS ARKA-FLAT (01) SW-HE

24VDC Linear Fixtures - Corner & Surface

SW-HE+ WET LENGTHS BY INCH

Available in any length in between 12" and 98.43", chart below shows example lengths. Exact 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" | 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: highlighted rows are closest to requested nominal length

| Requested Nominal Length | S1 | P1 |
|--------------------------|--------|--------|
| 12" | | |
| 13" | 12.61" | 12.76" |
| 14" | 12.61" | 12.76" |
| 15" | 14.61" | 14.76" |
| 16" | 14.61" | 14.76" |
| 17" | 16.61" | 16.76" |
| 18" | 16.61" | 16.76" |
| 19" | 18.61" | 18.76" |
| 20" | 18.61" | 18.76" |
| 21" | 20.61" | 20.76" |
| 22" | 20.61" | 20.76" |
| 23" | 22.61" | 22.76" |
| 24" | 22.61" | 22.76" |
| 36" | 34.61" | 34.76" |
| 48" | 46.61" | 46.76" |
| 60" | 58.61" | 58.76" |
| 72" | 70.61" | 70.76" |
| 84" | 82.61" | 82.76" |
| 96" | 94.61" | 94.76" |

COMPATIBLE POWER SUPPLIES

See power supplies cut sheets for more information. Data subject to change, all data has $\pm 5\%$ tolerance.

| DIM TO LEVEL | INDOOR | OUTDOOR |
|--------------|--|---|
| | SW24/5.0, SW-HE, SW-HE+ | SW24/5.0, SW-HE, SW-HE+ |
| Dim to Black | Q6M-DC+CAP QTM-DC+CAP iQ-PH iQ-PH+QD1 | QOM-DC+CAP QOM-PH |
| 0.1% | QT-CAB-QZ-PH/0-10V QT-CAB-eLED+0-10V QT-CAB-eLED+0-10V-AWN QT-CAB-eLED+DALI-DT6 QT-CAB-eLED+DALI-DT6-AWN QTM-eLED+0-10V QTM-eLED+0-10V-AWN 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-DMX 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% | QTM-eLED(E) QZ-DALI-DT6 | Q-SET+QZ-DALI-DT6 QZ-DALI-DT6 |
| 10% | Non-Dim Power Supply with SW App Dongle | |



ESSENTIALS ARKA-FLAT (01) SW-HE

24VDC Linear Fixtures - Corner & Surface

| DIMMING PROTOCOL | INDOOR | OUTDOOR |
|------------------|--|--|
| | SW24/5.0, SW-HE, SW-HE+ | SW24/5.0, SW-HE, SW-HE+ |
| Non-Dim | QT-CAB-eLED-ND QTM-eLED-ND QZ-ND | Q-SET-QZ-ND Q-SET-eLED-ND QOM-eLED-ND QZ-ND iQ-ND-50-65 |
| Phase | Q6M-DC+CAP QT-CAB-QZ-PH/0-10V QTM-DC+CAP QTM-eLED(E) QZ-BOWTIE+DIMMER QZ-PH/0-10V QZ-STICK-PH/0-10V QZLP iQ-PH iQ-PH+QD1 | Q-SET-QZ-PH/0-10V QOM-DC+CAP QOM-PH QZ-PH/0-10V |
| 0-10V | QT-CAB-QZ-PH/0-10V QT-CAB-eLED+0-10V QT-CAB-eLED+0-10V-AWN QTM-eLED+0-10V QTM-eLED+0-10V-AWN QZ-PH/0-10V QZ-STICK-PH/0-10V QZLP | Q-SET-QZ-PH/0-10V Q-SET-eLED+0-10V QOM-eLED+0-10V QZ-PH/0-10V |
| Lutron Athena | QT-CAB-eLED+0-10V-AWN QT-CAB-eLED+DALI-DT6-AWN QTM-eLED+0-10V-AWN QTM-eLED+DALI-DT6-AWN | |
| ECO System | QTM-eLED(E) | |
| DMX | QZ-DMX | Q-SET-QZ-DMX QZ-DMX |
| DALI-2: DT6 | QT-CAB-eLED+DALI-DT6 QT-CAB-eLED+DALI-DT6-AWN QTM-eLED+DALI-DT6 QTM-eLED+DALI-DT6-AWN QZ-DALI-DT6 | Q-SET+QZ-DALI-DT6 QOM-eLED+DALI-DT6 QZ-DALI-DT6 |
| SCENE App Dimmed | Non-Dim Power Supply with SW App Dongle | |

COMPATIBLE MOUNTING ACCESSORIES

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