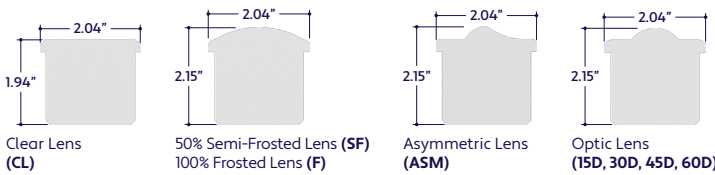


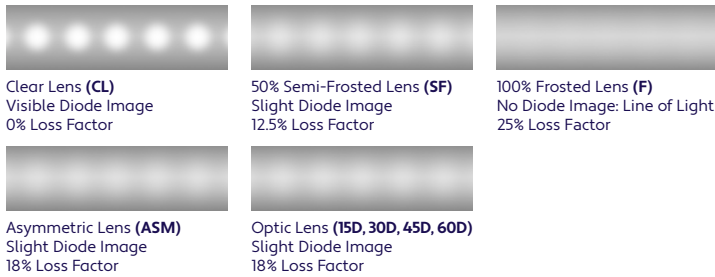
### GENERAL FEATURES

<b>Applications</b>	Indirect and Direct Lighting
<b>Lens</b>	Clear, 50% Semi-Frosted, or 100% Frosted
<b>Optics &amp; Asymmetric</b>	15°, 30°, 45°, 60° or Asymmetric Optics
<b>Length</b>	Built to Order (+/- 1/8" Tolerance) See <b>Length Restrictions</b> Table for details
<b>Construction</b>	Aluminum Extrusion
<b>Weight</b>	0.80 lbs per foot
<b>Mounting</b>	Mounting Clips (Sold Separately)
<b>Listing</b>	Dry or Damp Location UL1598, CSA C22.2#250.0 UL8750, CSA250 UL2108, 67.1.9, 60.4, CSA C22.2 #9
<b>Temperature Ratings</b>	Operating / Startup: -20° to 48°C (-4° to 120°F) Storage: -40° to 76°C (-40° to 170°F)
<b>Installation Link</b>	

### END VIEWS / DIMENSIONS



### LENS / OPTICS APPEARANCE



### ELECTRICAL

<b>Dimming</b>	0-10V, DMX, DALI
<b>Luminaire Voltage</b>	120V - 277V (UNV)

### MINIMUM & MAXIMUM RUNS

Wattage	1.5W	2W	3W	4W	5W	6W	8W	10W	12W
<b>0-10V &amp; DALI Minimum Run</b>	4'	3'	2'	2'	2'	1'	1'	1'	1'
<b>0-10V &amp; DALI Maximum Run</b>	39'	27'	19'	14'	11'	9'	7'	6'	5'
<b>DMX Minimum Run</b>	4'	3'	2'	2'	2'	1'	1'	1'	1'
<b>DMX Maximum Run</b>	26'	18'	13'	9'	8'	6'	4'	4'	3'

### SPECIFY PRODUCT CODE | CHOOSE FROM DROP DOWNS

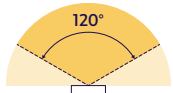
Series	Lens / Optics	Finish	BIOS LED	Watts per Foot	Dimming	Feed Point	Listing	Luminaire Voltage <sup>6</sup>	Luminaire Length
								<b>UNV</b>	
A1-ZAFU-STN-BIOS	Clear Lens (CL)	Natural Silver (NA) <sup>1</sup>	BIOS Biological Static: 3500K Daytime* <sup>2</sup> (BS-35K)	1.5 Watts (1.5W) 232 Lumens / ft <sup>2</sup>	0-10V (10V)	End Feed (EF)	Indoor (DRY)	120 - 277V Line Voltage (UNV)	Specify Length in Feet & Inches <b>Example:</b> 7'8"
	50% Semi-Frosted Lens (SF)	White (WH)		2 Watts (2W) 310 Lumens / ft <sup>2</sup>					
	100% Frosted Lens (F)	Satin (SA)	BIOS Biological Dynamic: 3500K Daytime - 3000K Evening* <sup>3</sup>	3 Watts (3W) 465 Lumens / ft <sup>2</sup>	DMX-512 (DMX)	Side Feed (SF)			
	Asymmetric Lens (ASM)	Black (BK)		4 Watts (4W) 620 Lumens / ft <sup>2</sup>					
	15° Optics (15D)	Silver (SR)	(BD-35K-30K)	5 Watts (5W) 775 Lumens / ft <sup>2</sup>					
	30° Optics (30D)			6 Watts (6W) 930 Lumens / ft <sup>2</sup>					
	45° Optics (45D)			8 Watts (8W) 1240 Lumens / ft <sup>2</sup>					
	60° Optics (60D)			10 Watts (10W) 1550 Lumens / ft <sup>2</sup>					
				12 Watts (12W) 1860 Lumens / ft <sup>2</sup>					

Note: See page 2 for ordering notes & restrictions.

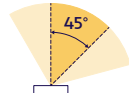
### ORDERING NOTES & RESTRICTIONS

- \*1 Default finish is Natural Silver (**NA**) if left blank.
- \*2 BIOS Biological Static available in standard 3500K Daytime CCT. Consult factory for other color temperature options.
- \*3 BIOS Biological Dynamic available in standard 3500K Daytime - 3000K Evening CCT gamut. Consult factory for other color temperature options.
- \*4 BIOS Biological Tunable available in standard 3500K Daytime - 2700K Evening CCT gamut. Consult factory for other color temperature options.
- \*5 Lumens per Foot based on 35K CCT LED.  
**Example:** 155 Lumens x 10 Watts = 1550 Initial Lumens per Foot.
- \*6 Integral Drivers are sized based on wattage per length.  
**Example:** 10' x 3 Watts per Foot = 30 Watts. Driver will be sized based on 30 Watts.

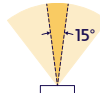
### BEAM ANGLES



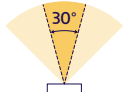
120° x 120° Beam  
Clear Lens (**CL**)  
50% Semi-Frosted Lens (**SF**)  
100% Frosted Lens (**F**)



45° x 60° Beam  
Asymmetric Lens  
(**ASM**)



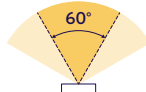
15° x 60° Beam  
Optic Lens  
(**15D**)



30° x 60° Beam  
Optic Lens  
(**30D**)



45° x 60° Beam  
Optic Lens  
(**45D**)



60° x 60° Beam  
Optic Lens  
(**60D**)

### FEED POINTS



End Feed  
(**EF**)



Bottom Feed  
(**BF**)

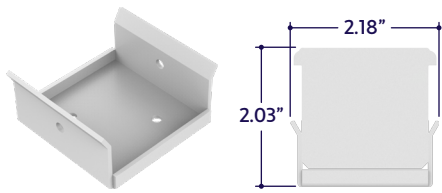


Side Feed  
(**SF**)

Add the following measurement to the overall length of luminaire:  
**EF:** 0.15", **BF:** 0.55", **SF:** 0.55"

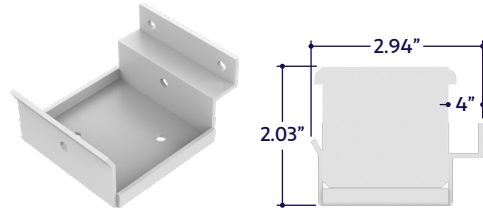
### MOUNTING OPTIONS (Sold Separately)

Note: Mounting clips are only available in Natural Silver Finish, unless otherwise specified.



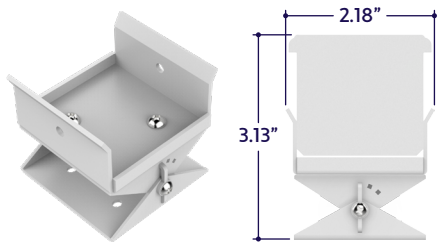
Part #	Qty.
A1-ZAFU-STN-MC-1	

Note: Use 1 mounting clip per 2', rounded up.  
Click on image to see cut sheet for additional details.



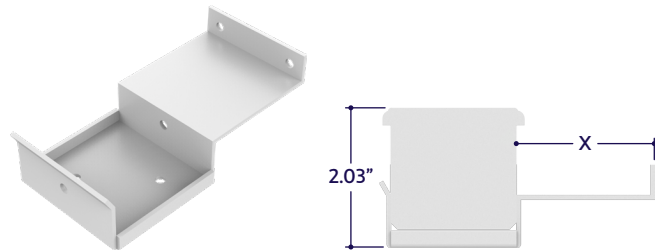
Part #	Qty.
A1-ZAFU-STN-MC-2	

Note: Use 1 mounting clip per 2', rounded up.  
Click on image to see cut sheet for additional details.



Part #	Qty.
A1-ZAFU-STN-MC-3	

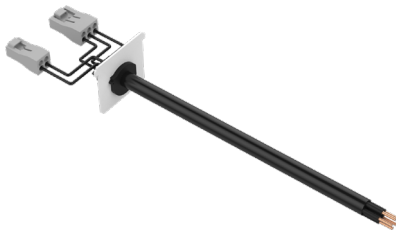
Note: Use 1 mounting clip per 2', rounded up.  
Click on image to see cut sheet for additional details.



Part #	Length	Qty.
A1-ZAFU-STN-MC-4-		

Note: Use 1 mounting clip per 2', rounded up.  
Click on image to see cut sheet for additional details.

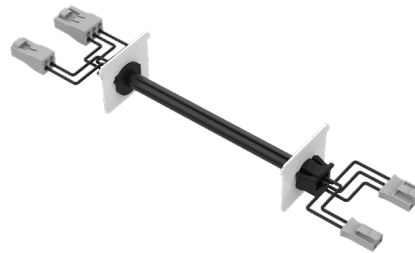
### CONNECTORS (Sold Separately)



Dry Power Connector with End Cap  
(A1-ZAFU-STN-BIOS-PC-EC-Y-DRY-X)  
Y = Lens / Optics  
X = Specify Cable Length, 6" Default

Part #	Length	Qty.
A1-ZAFU-STN-BIOS-PC-EC-CL-DRY-		
A1-ZAFU-STN-BIOS-PC-EC-SF-DRY-		
A1-ZAFU-STN-BIOS-PC-EC-F-DRY-		
A1-ZAFU-STN-BIOS-PC-ECL-ASM-DRY-		
A1-ZAFU-STN-BIOS-PC-ECR-ASM-DRY-		
A1-ZAFU-STN-BIOS-PC-EC-15D-DRY-		
A1-ZAFU-STN-BIOS-PC-EC-30D-DRY-		
A1-ZAFU-STN-BIOS-PC-EC-45D-DRY-		
A1-ZAFU-STN-BIOS-PC-EC-60D-DRY-		

Note: Use 1 Dry Power Connector with End Cap for each dry location power lead.



Dry Jumper Cable with End Caps  
(A1-ZAFU-STN-BIOS-JC-EC-Y-DRY-X)  
Y = Lens / Optics  
X = Specify Cable Length, 6" Default

Part #	Length	Qty.
A1-ZAFU-STN-BIOS-JC-EC-CL-DRY-		
A1-ZAFU-STN-BIOS-JC-EC-SF-DRY-		
A1-ZAFU-STN-BIOS-JC-EC-F-DRY-		
A1-ZAFU-STN-BIOS-JC-EC-ASM-DRY-		
A1-ZAFU-STN-BIOS-JC-EC-15D-DRY-		
A1-ZAFU-STN-BIOS-JC-EC-30D-DRY-		
A1-ZAFU-STN-BIOS-JC-EC-45D-DRY-		
A1-ZAFU-STN-BIOS-JC-EC-60D-DRY-		

Note: Use 1 Dry Jumper Cable with End Caps for each instance where the run will transverse a corner or an obstacle.

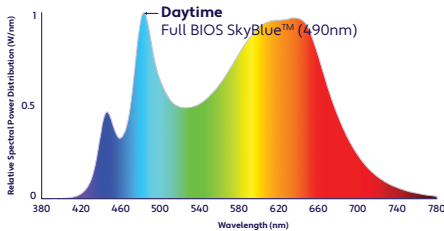
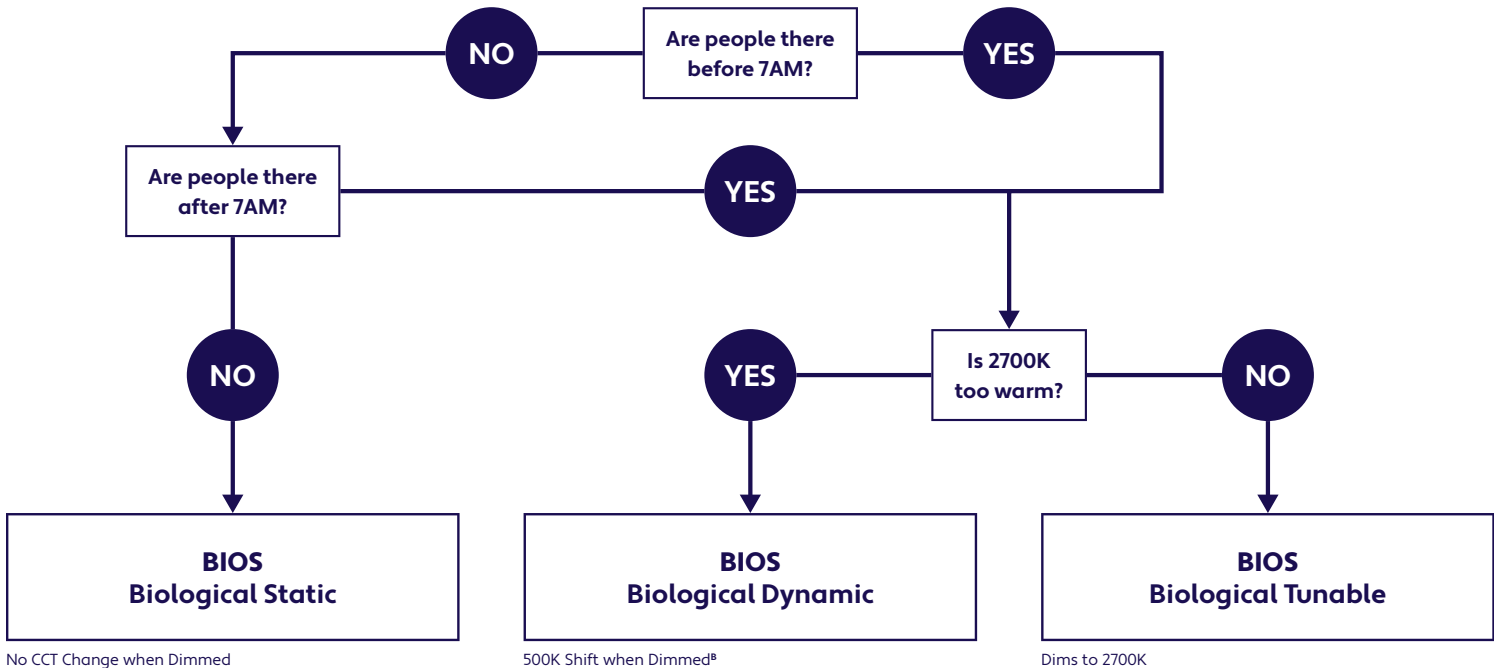
### DELIVERED MELANOPIC RATIOS

BIOS Solution / Nominal CCT / Product Code	Spectral Mode	CRI	R9	Daytime Spectrum Melanopic Ratio* (M/P)	
				m-EER	m-DER
BIOS Biological Static: 3500K Daytime (BIOS-BS-35K)	Daytime Solution	80+	> 90	≥ 0.80	≥ 0.72
BIOS Biological Dynamic: 3500K Daytime - 3000K Evening (BIOS-BD-35K-30K)	Daytime + Evening Solution	80+	> 90	≥ 0.70	≥ 0.63
BIOS Biological Tunable: 3500K Daytime - 2700K Evening (BIOS-BT-35K-27K)	Daytime + Evening Solution	80+	> 90	≥ 0.80	≥ 0.72

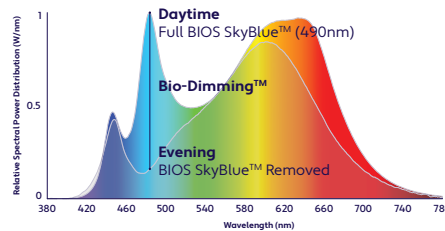
\*Melanopic ratios are provided in two forms: (m-EER) which is calculated using the WELL v2 methodology and the corresponding CIE melanopic Daylight Equivalent Ratio, (m-DER).

### CHOOSING YOUR BIOS SOLUTION

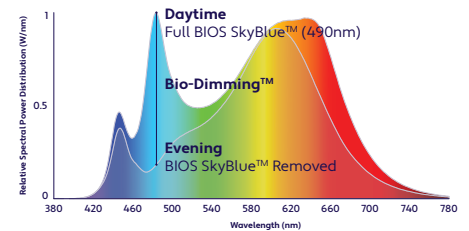
ALUZ offers four different BIOS Circadian LED Solutions – Biological Static, Biological Dynamic, and Biological Tunable White. Use the decision tree below to identify when and where to use BIOS Wellness LED Lighting Solutions .



**Daytime Solution**  
(Offices, Medical / Dental Offices)  
Spaces in operation during daytime hours, between 7AM and 7PM.



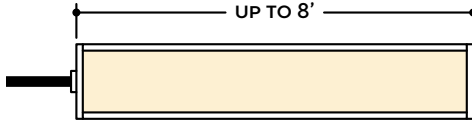
**Daytime + Evening Solution**  
(Hospitals)  
Spaces in operation overnight, after 7PM and before 7AM. CCT color shift in the evening not preferred.  
(<sup>B</sup>3000K dims to 2700K)



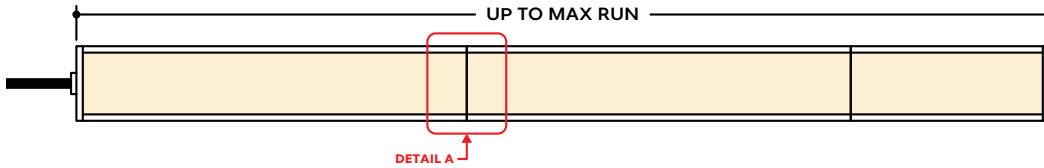
**Daytime + Evening Solution**  
(Offices, Shiftwork)  
Spaces in operation overnight, after 7PM and before 7AM and people do not sleep there. CCT color shift in the evening not preferred.

## DESIGN GUIDELINES

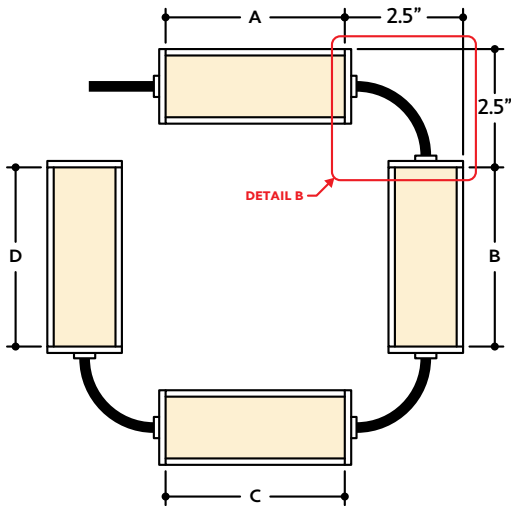
### Individual Fixture



### Continuous Run (Dry Location)



### Run with Square Layout (Dry Location)



## KEY

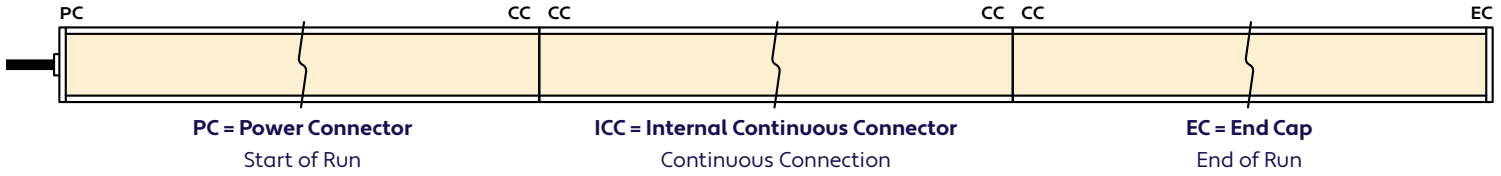
**Detail A** **Continuous Connection (Dry Location):** Luminaire segments connect using internal continuous connectors, leaving no gaps between segments, with a mounting clip holding the two segments together. Refer to installation instructions for additional information.

**Detail B** **Dry Jumper Cable:** Used to span a corner or traverse a gap or obstacle in the installation area.

**Note:** Drawings not to scale. Product may differ from examples shown.

## CONNECTION SEQUENCE

### Dry Location

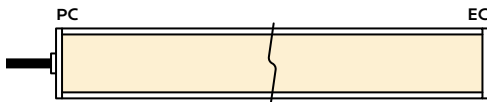


- Specifying a layout is not required to place an order.
- Configuration code applies to full length ordered and will be built per the Continuous Run models on Design Guidelines.
- Connector type subject to change based on availability and listing. Refer to Design Guidelines for details.

## HOW TO SPECIFY CONFIGURATIONS

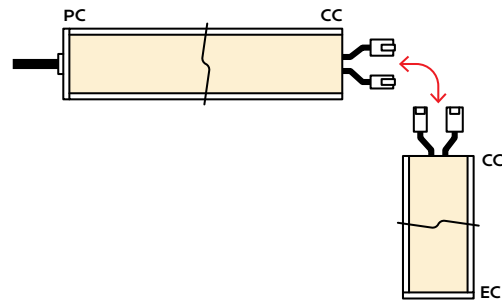
### Example: 20' Straight Run

- 1x A1-ZAFU-STN-BIOS-CL-NA-BS-35K-10W-10V-EF-DRY-UNV-9'-PC-EC



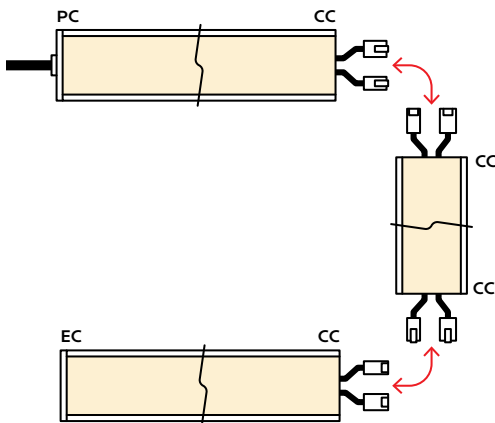
### Example: 25' L-Shaped Run

- 1x A1-ZAFU-STN-BIOS-CL-NA-BS-35K-10W-10V-EF-DRY-UNV-6'-PC-ICC
- 1x A1-ZAFU-STN-BIOS-CL-NA-BS-35K-10W-10V-EF-DRY-UNV-7'-ICC-EC



### Example: 30' U-Shaped Run

- 1x A1-ZAFU-STN-BIOS-CL-NA-BS-35K-10W-10V-EF-DRY-UNV-6'-PC-ICC
- 1x A1-ZAFU-STN-BIOS-CL-NA-BS-35K-10W-10V-EF-DRY-UNV-7'-ICC-ICC
- 1x A1-ZAFU-STN-BIOS-CL-NA-BS-35K-10W-10V-EF-DRY-UNV-6'-ICC-EC



### Example: 28' Rectangle Shaped Run

- 1x A1-ZAFU-STN-BIOS-CL-NA-BS-35K-10W-10V-EF-DRY-UNV-5'-PC-ICC
- 1x A1-ZAFU-STN-BIOS-CL-NA-BS-35K-10W-10V-EF-DRY-UNV-3'-ICC-ICC
- 1x A1-ZAFU-STN-BIOS-CL-NA-BS-35K-10W-10V-EF-DRY-UNV-5'-ICC-ICC
- 1x A1-ZAFU-STN-BIOS-CL-NA-BS-35K-10W-10V-EF-DRY-UNV-3'-ICC-EC

