

### GENERAL FEATURES

<b>Applications</b>	Under-Cabinet and Indirect Lighting
<b>Lens</b>	50% Semi-Frosted or 100% Frosted
<b>Length</b>	Built to Order (1'-6" Minimum Length 2'-0" Minimum Length if DMX or DALI Dimming) See <b>Length Restrictions</b> Table for details
<b>Construction</b>	Aluminum Extrusion
<b>Weight</b>	1.22 lbs per foot
<b>Mounting</b>	Mounting Channel
<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>Driver</b>	Integral (Consult factory for remote driver options)
<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



### 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'

### ELECTRICAL

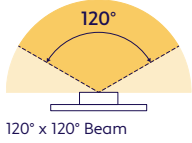
<b>Dimming</b>	0-10V, DMX, DALI
<b>Luminaire Voltage</b>	120V - 277V (UNV)

### SPECIFY PRODUCT CODE | CHOOSE FROM DROP DOWNS

Series	Lens / Optics	Finish	BIOS LED	Watts per Foot	Dimming	Feed Point	Listing	Luminaire Voltage <sup>7</sup>	Rocker Switch <sup>8</sup>	Occ. Sensor <sup>8</sup>	Luminaire Length
<b>A1-ZADY-STN-BIOS</b>											
ZADY Standard BIOS Illuminated (A1-ZADY-STN-BIOS)	50% Semi-Frosted Lens (SF)	Natural Silver* (NA)	BIOS Biological Static: 3500K Daytime* <sup>2</sup> (BS-35K)	1.5 Watts (1.5W) 232 Lumens / ft* <sup>5</sup>	0-10V (10V)	End Feed (EF)	Indoor (DRY)	120 - 277V Line Voltage (UNV)	Rocker Switch Left (RWL)	Sensor Left (OCSL)	Specify Length in Feet & Inches
		Satin (SA)		3 Watts (3W) 465 Lumens / ft* <sup>5</sup>	DALI (DALI)	Bottom Feed (BF)			Rocker Switch Center (RWC)	Sensor Center (OCS)	
		Silver (SR)	BIOS Biological Dynamic: 3500K Daytime - 3000K Evening* <sup>3</sup> (BD-35K-30K)	4 Watts (4W) 620 Lumens / ft* <sup>5</sup>	DMX-512 (DMX)	Side Feed (SF)	Rocker Switch Right (RWR)		Sensor Right (OCSR)		
		White (WH)		5 Watts (5W) 775 Lumens / ft* <sup>5</sup>			6 Watts (6W) 930 Lumens / ft* <sup>5</sup>				
	100% Frosted Lens (F)	Anti-Microbial White (AWH)	BIOS Biological Tunable: 3500K Daytime - 2700K Evening* <sup>4</sup> (BT-35K-27K)	8 Watts (8W) 1240 Lumens / ft* <sup>5</sup>	No Feed* <sup>6</sup> (NF)		Leave Blank for None	Leave Blank for None			
		Black (BK)		10 Watts (10W) 1550 Lumens / ft* <sup>5</sup>							
		Anti-Microbial Black (ABK)	12 Watts (12W) 1860 Lumens / ft* <sup>5</sup>								

- \*<sup>1</sup> Default finish is Natural Silver (NA) if left blank.
- \*<sup>2</sup> BIOS Biological Static available in standard 3500K Daytime CCT. Consult factory for other color temperature options.
- \*<sup>3</sup> BIOS Biological Dynamic available in standard 3500K Daytime - 3000K Evening CCT gamut. Consult factory for other color temperature options.
- \*<sup>4</sup> BIOS Biological Tunable available in standard 3500K Daytime - 3000K Evening CCT gamut. Consult factory for other color temperature options.
- \*<sup>5</sup> Lumens per Foot based on 35K CCT LED. **Example:** 155 Lumens x 10 Watts = 1550 Initial Lumens per Foot.
- \*<sup>6</sup> No Feed: Power is fed through the back or bottom of luminaire by drilling proper sized hole for conduit.
- \*<sup>7</sup> Integral Drivers are sized based on wattage per length. **Example:** 3' x 10 Watts per Foot = 30 Watts. Driver will be sized based on 30 Watts.
- \*<sup>8</sup> Rocker Switch and Occupancy Sensor must be in different locations. **Example:** Switch and Sensor cannot both be center.

### BEAM ANGLE



### LENS / OPTICS APPEARANCE

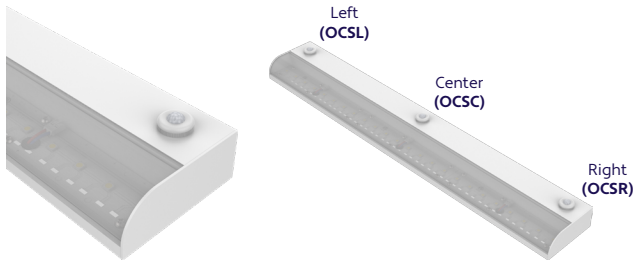


50% Semi-Frosted Lens (SF)  
Slight Diode Image  
0% Loss Factor

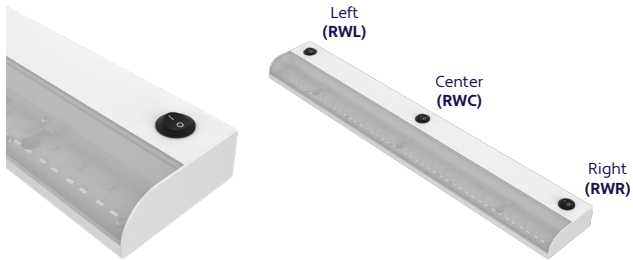


100% Frosted Lens (F)  
No Diode Image: Line of Light  
15.6% Loss Factor

### ADD-ONS (Specified in Product Code)



Occupancy Sensor  
(OC SX) X = Specify Location: Left, Center, or Right



Rocker Switch  
(RW X) X = Specify Location: Left, Center, or Right

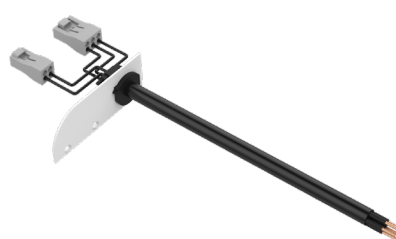
### CONNECTORS (Sold Separately)



Dry Power Connector with Left End Cap  
(A1-ZADY-STN-BIOS-PC-ECL-DRY-X)  
X = Specify Cable Length, 6' Default

Part #	Length	Qty.
A1-ZADY-STN-BIOS-PC-ECL-DRY-6'		
A1-ZADY-STN-BIOS-PC-ECL-DRY-		

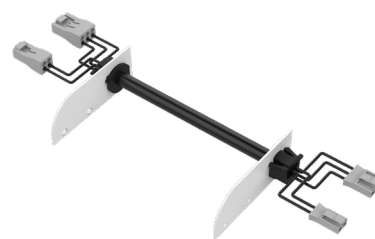
Note: Use 1 Dry Power Connector with Left End Cap for each dry location power lead on the left side.



Dry Power Connector with Right End Cap  
(A1-ZADY-STN-BIOS-PC-ECR-DRY-X)  
X = Specify Cable Length, 6' Default

Part #	Length	Qty.
A1-ZADY-STN-BIOS-PC-ECR-DRY-6'		
A1-ZADY-STN-BIOS-PC-ECR-DRY-		

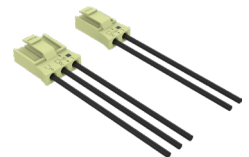
Note: Use 1 Dry Power Connector with Left End Cap for each dry location power lead on the left side. Standard Power Connector.



Dry Jumper Cable with End Caps  
(A1-ZADY-STN-BIOS-JC-EC-DRY-X)  
X = Specify Cable Length, 3" Default

Part #	Length	Qty.
A1-ZADY-STN-BIOS-JC-EC-DRY-3"		
A1-ZADY-STN-BIOS-JC-EC-DRY-		

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



Hardwire Disconnects  
(A1-PC-5P-HWD)

Part #	Qty.
A1-PC-5P-HWD	

Note: Use Hardwire Disconnects for conduit power feed applications. Typically used with No Feed (NF) product code selection.

### FEED POINTS



End Feed  
(EF)



Bottom Feed  
(BF)



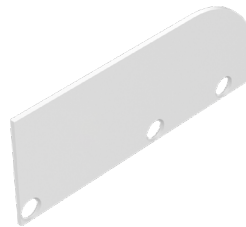
Side Feed  
(SF)



No Feed  
(NF)

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

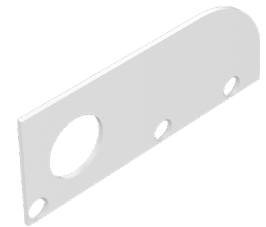
### END CAPS (Sold Separately)



End Cap  
(A1-ZADY-STN-EC)

Part #	Qty.
A1-ZADY-STN-EC	

Note: Use 1 End Cap for each terminus. Suitable for both left and right side.



End Cap with Hole  
(A1-ZADY-STN-EC-H)

Part #	Qty.
A1-ZADY-STN-EC-H	

Note: Use 1 End Cap with Hole for each terminus where conduit (by others) will be brought into the luminaire. Hole measures Ø 3/4". Suitable for both left and right side.

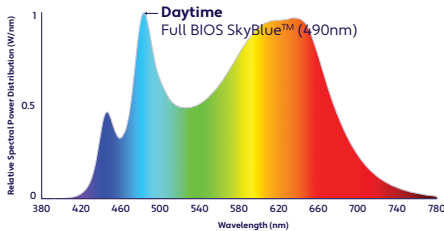
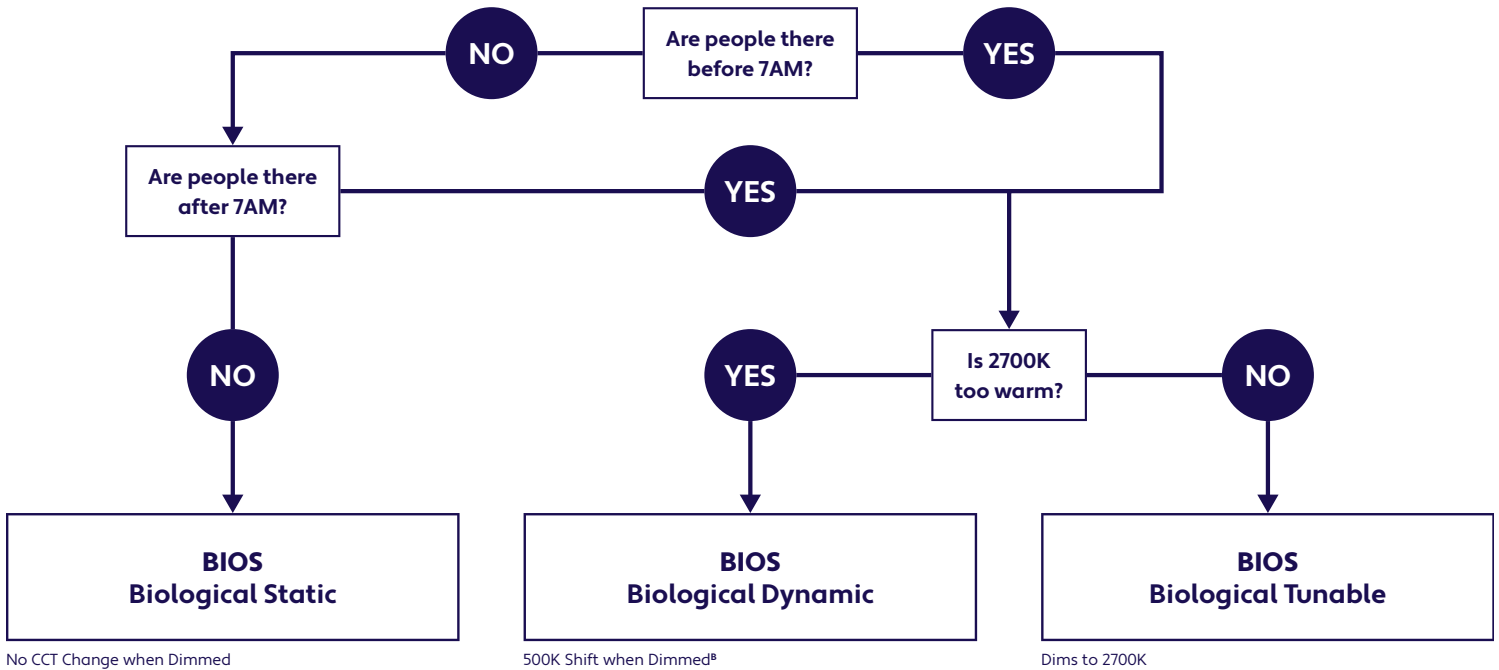
### DELIVERED MELANOPIC RATIOS

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

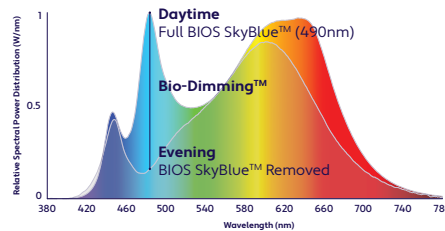
\*Melanopic ratios are provided in two forms: (m-EER) which is calculated using the WELL v2 methodology and the corresponding CIE melanopic Daylight Equivalent Ratio, (m-DER).

### CHOOSING YOUR BIOS SOLUTION

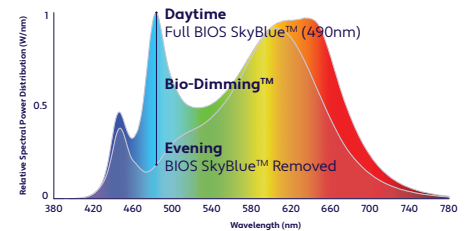
ALUZ offers four different BIOS Circadian LED Solutions – Biological Static, Biological Dynamic, and Biological Tunable White. Use the decision tree below to identify when and where to use BIOS Wellness LED Lighting Solutions .



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



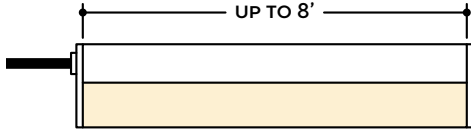
**Daytime + Evening Solution**  
(Hospitals)  
Spaces in operation overnight, after 7PM and before 7AM.  
CCT color shift in the evening not preferred.  
(<sup>B</sup>3000K dims to 2700K)



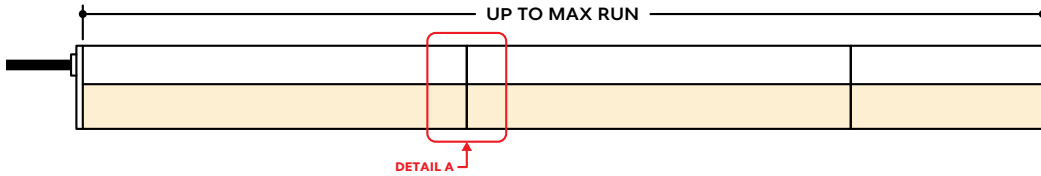
**Daytime + Evening Solution**  
(Offices, Shiftwork)  
Spaces in operation overnight, after 7PM and before 7AM and people do not sleep there.  
CCT color shift in the evening not preferred.

## DESIGN GUIDELINES

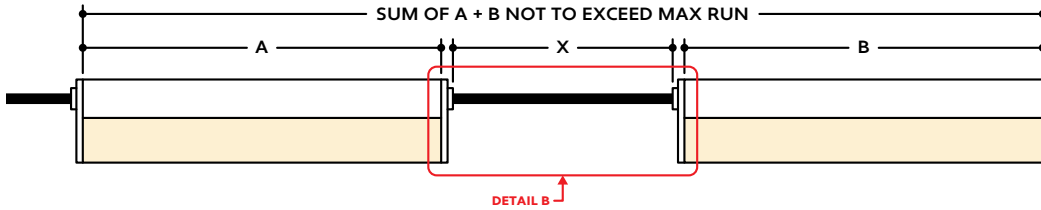
### Individual Fixture



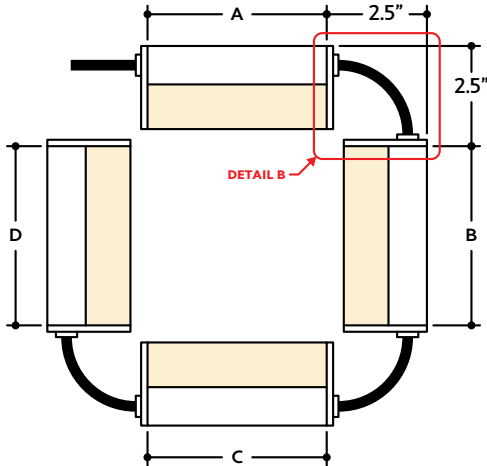
### Continuous Run



### Run with Jumper Cable



### Run with Square Layout



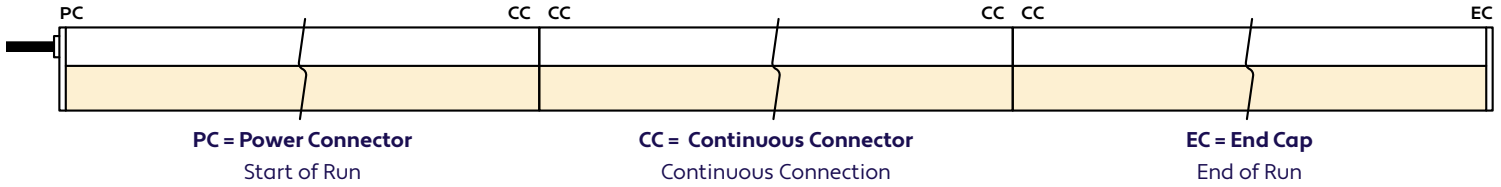
## KEY

- Detail A** **Continuous Connection (Dry Location):** Luminaire segments connect using internal continuous connectors, leaving no gaps between segments. Refer to installation instructions for additional information.
- Detail B** **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

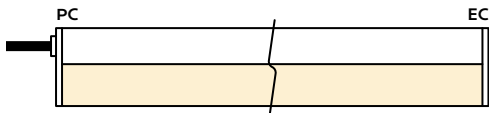


- Specifying a layout is not required to place an order.
- Configuration code applies to full length ordered and will be built per the Continuous Run models on Design Guidelines.
- Connector type subject to change based on availability and listing. Refer to Design Guidelines for details.

## HOW TO SPECIFY CONFIGURATIONS

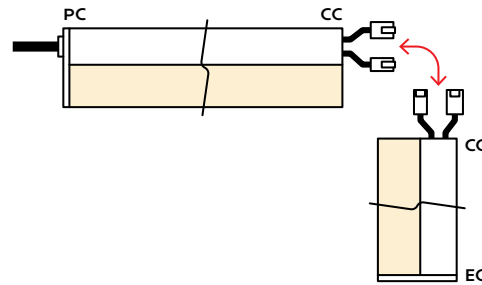
### Example: 20' Straight Run

- 1x A1-ZADY-STN-BIOS-SF-WH-BS-35K-10W-10V-EF-DRY-UNV-20'-PC-EC



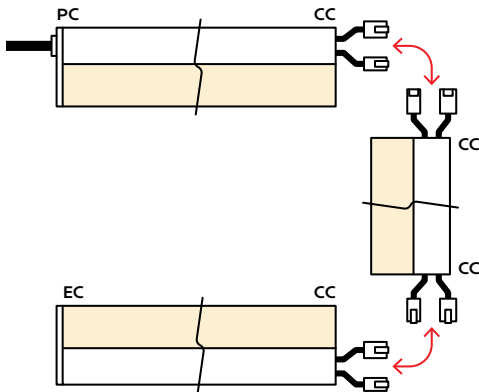
### Example: 25' L-Shaped Run

- 1x A1-ZADY-STN-BIOS-SF-WH-BS-35K-10W-10V-EF-DRY-UNV-12'-PC-CC
- 1x A1-ZADY-STN-BIOS-SF-WH-BS-35K-10W-10V-EF-DRY-UNV-13'-CC-EC



### Example: 30' U-Shaped Run

- 1x A1-ZADY-STN-BIOS-SF-WH-BS-35K-10W-10V-EF-DRY-UNV-6'-PC-CC
- 1x A1-ZADY-STN-BIOS-SF-WH-BS-35K-10W-10V-EF-DRY-UNV-18'-CC-CC
- 1x A1-ZADY-STN-BIOS-SF-WH-BS-35K-10W-10V-EF-DRY-UNV-6'-CC-EC



### Example: 28' Rectangle Shaped Run

- 1x A1-ZADY-STN-BIOS-SF-WH-BS-35K-10W-10V-EF-DRY-UNV-11'-PC-CC
- 1x A1-ZADY-STN-BIOS-SF-WH-BS-35K-10W-10V-EF-DRY-UNV-3'-CC-CC
- 1x A1-ZADY-STN-BIOS-SF-WH-BS-35K-10W-10V-EF-DRY-UNV-11'-CC-CC
- 1x A1-ZADY-STN-BIOS-SF-WH-BS-35K-10W-10V-EF-DRY-UNV-3'-CC-EC

