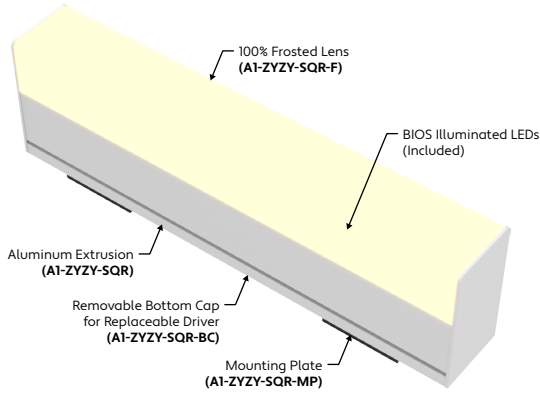


# ALUZ

## A1 Series | Surface ZYZY Square BIOS Illuminated (A1-ZYZY-SQR-BIOS)

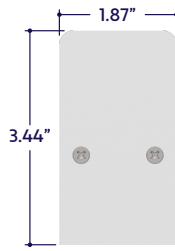
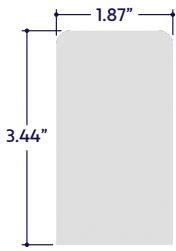
TYPE



### GENERAL FEATURES

<b>Applications</b>	Surface Mount Direct View
<b>Lens</b>	100% Frosted (No Pixelation: Line of Light)
<b>Length</b>	<p><b>Built to Order:</b> Custom lengths up to 8' (No Seams) Specify Overall Length (Minimum: 2', Maximum: 8') <b>Example:</b> 7'8" = One 7'8" luminaire (Custom Length) <b>Example:</b> 3'2" = One 3'2" luminaire (Custom Length) <b>Example:</b> 13'6" = 8' + 5'6" <b>Example:</b> 23'8" = 8' + 8' + 7'8" See <b>Length Restrictions</b> Table for details</p>
<b>Construction</b>	Aluminum Extrusion
<b>Weight</b>	1.09 lbs per Foot
<b>Mounting</b>	Mounting Plates (Sold Separately)
<b>Listing</b>	<p>Dry or Damp Location UL1598, CSA C22.2#250.0 UL8750, CSA250 UL2108, 67.1.9, 60.4, CSA C22.2 #9</p>
<b>Driver</b>	Integral (Driver on Board)
<b>Temperature Ratings</b>	<p>Operating / Startup: -20° to 48°C (-4° to 120°F) Storage: -40° to 76°C (-40° to 170°F)</p>
<b>Installation Link</b>	

### END VIEWS / DIMENSIONS



Dry or Damp Location  
(No Visible Screws)

Wet Location  
(Visible Screws)

### 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	Finish	BIOS LED	Watts per Foot	Dimming	Feed Point	Listing	Luminaire Voltage <sup>5</sup>	Luminaire Length
<b>A1-ZYZY-SQR-BIOS</b>					<b>BFF</b>		<b>UNV</b>	
ZYZY Square BIOS Illuminated (A1-ZYZY-SQR-BIOS)	White (WH)	BIOS Biological Static: 3500K Daytime <sup>1</sup> (BS-35K)	1.5 Watts (1.5W) 234 Lumens / ft* <sup>4</sup>	0-10V (10V)	Bottom Face Feed (BFF)	Indoor (DRY)	120 - 277V Line Voltage (UNV)	Specify Length in Feet & Inches <b>Example:</b> 7'8"
	Satin (SA)		2 Watts (2W) 312 Lumens / ft* <sup>4</sup>					
	Black (BK)	BIOS Biological Dynamic: 3500K Daytime - 3000K Evening <sup>2</sup> (BD-35K-30K)	3 Watts (3W) 468 Lumens / ft* <sup>4</sup>	DALI (DALI)		Outdoor (DAMP)		
			4 Watts (4W) 624 Lumens / ft* <sup>4</sup>					
		BIOS Biological Tunable: 3500K Daytime - 2700K Evening <sup>3</sup> (BT-35K-27K)	5 Watts (5W) 780 Lumens / ft* <sup>4</sup>	DMX-512 (DMX)				
			6 Watts (6W) 936 Lumens / ft* <sup>4</sup>					
			8 Watts (8W) 1248 Lumens / ft* <sup>4</sup>					
			10 Watts (10W) 1560 Lumens / ft* <sup>4</sup>					
			12 Watts (12W) 1872 Lumens / ft* <sup>4</sup>					

- <sup>1</sup> BIOS Biological Static available in standard 3500K Daytime CCT. Consult factory for other color temperature options.
- <sup>2</sup> BIOS Biological Dynamic available in standard 3500K Daytime - 3000K Evening CCT gamut. Consult factory for other color temperature options.
- <sup>3</sup> BIOS Biological Tunable available in standard 3500K Daytime - 2700K Evening CCT gamut. Consult factory for other color temperature options.
- <sup>4</sup> Lumens per Foot based on 35K CCT LED. **Example:** 156 Lumens x 4 Watts = 624 Initial Lumens per Foot.
- <sup>5</sup> Integral drivers wattage sized based on length of run. **Example:** 6' run x 10 watts per foot = 60 watts. Driver will be sized to 60 watts maximum.

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Specification Submittal

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### LAMP FEATURES

**Lamp Type** BIOS SkyBlue™ LEDs

**CRI** > 80

**Efficacy\*** 156 Lumens per Watt

**Note:** Efficacy is based on Biological Static (BIOS-BS-35K) with Clear Lens (CL).

### LAMP SPECIFICATIONS

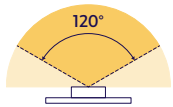
Lamp Number	Description	Efficacy (Lumens per Watt)	L70 LED Life
BIOS-BS-35K	Biological Static: 3500K Daytime	156	
BIOS-BD-35K-30K	Biological Dynamic: 3500K Daytime - 3000K Evening	156	60,000 hrs.
BIOS-BT-35K-27K	Biological Tunable: 3500K Daytime - 2700K Evening	156	

**Note:** Efficacy is based on 35K CCT LED with Clear Lens (CL).

**Note:** To calculate Lumens per Foot, multiply Efficacy by Watts per Foot.

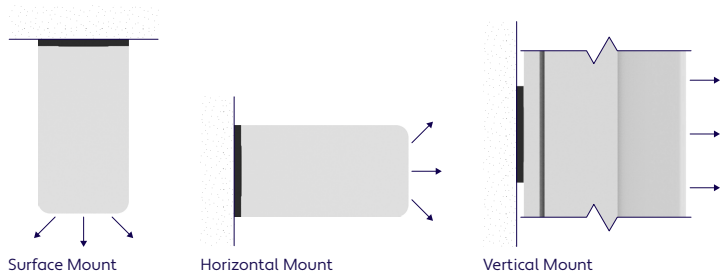
**Example:** 156 Lumens per Watt x 4 Watts per Foot = 624 Lumens per Foot.

### BEAM ANGLES



120° x 120° Beam

### MOUNTING OPTIONS



**Note:** Arrows indicate direction of light. Do not install Wet Location luminaires with the lens facing upwards.

### FEED POINT



Bottom Face Feed (BFF)

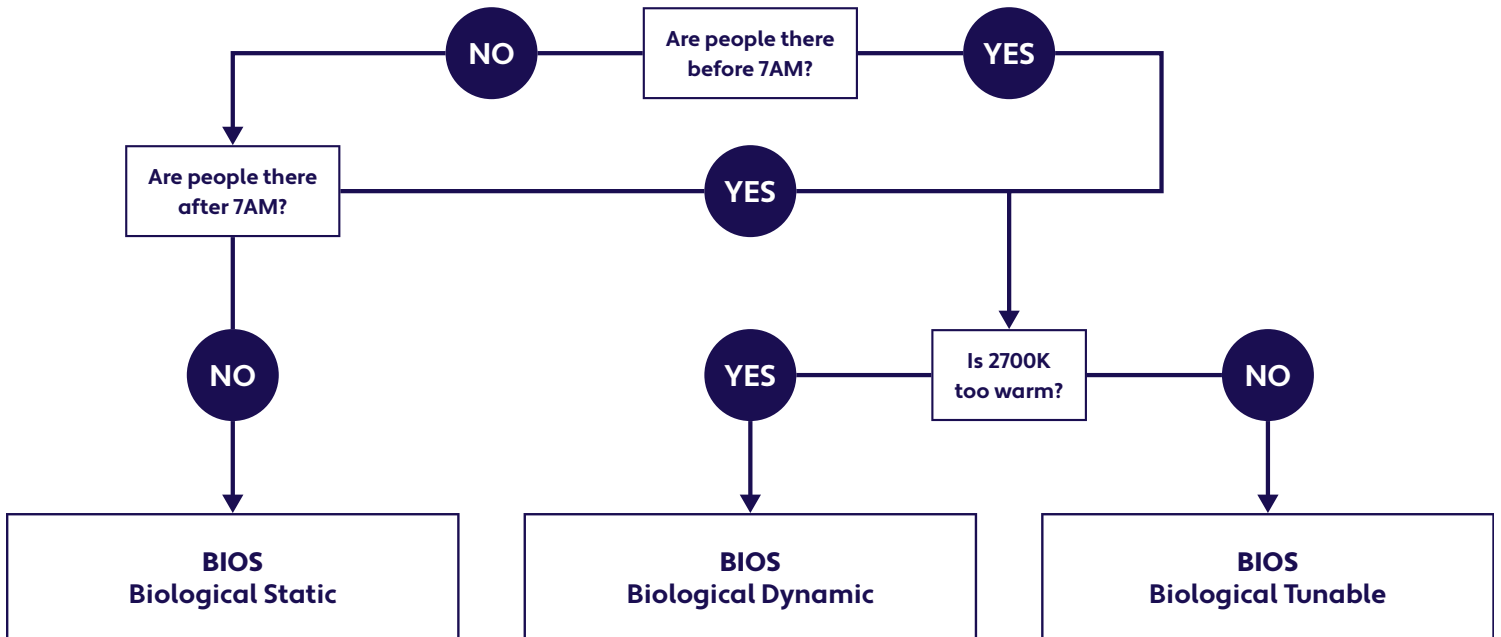
### DELIVERED MELANOPIC RATIOS

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

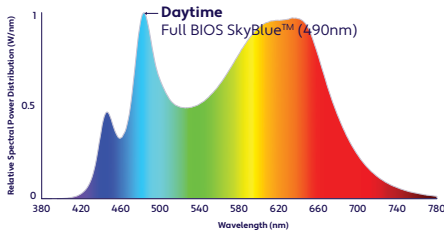
ALUZ offers four different BIOS Circadian LED Solutions – Biological Static, Biological Dynamic, and Biological Tunable White. Use the decision tree below to identify when and where to use BIOS Wellness LED Lighting Solutions .



No CCT Change when Dimmed

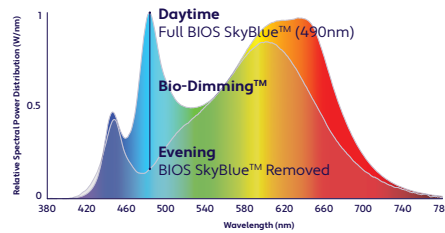
500K Shift when Dimmed<sup>B</sup>

Dims to 2700K



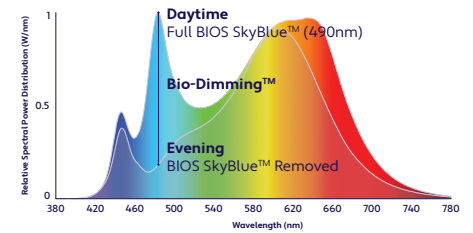
**Daytime Solution**  
(Offices, Medical / Dental Offices)

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)

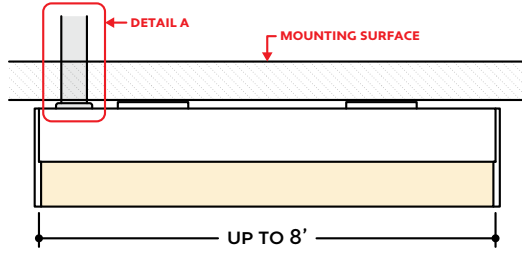


**Daytime + Evening Solution**  
(Offices, Shiftwork)

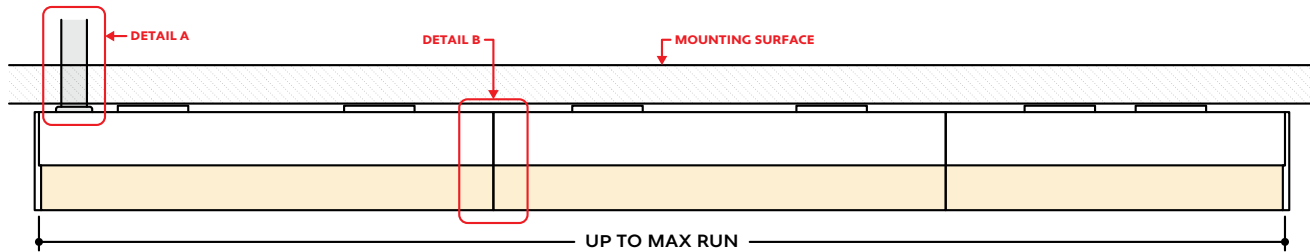
Spaces in operation overnight, after 7PM and before 7AM and people do not sleep there. CCT color shift in the evening not preferred.

## DESIGN GUIDELINES

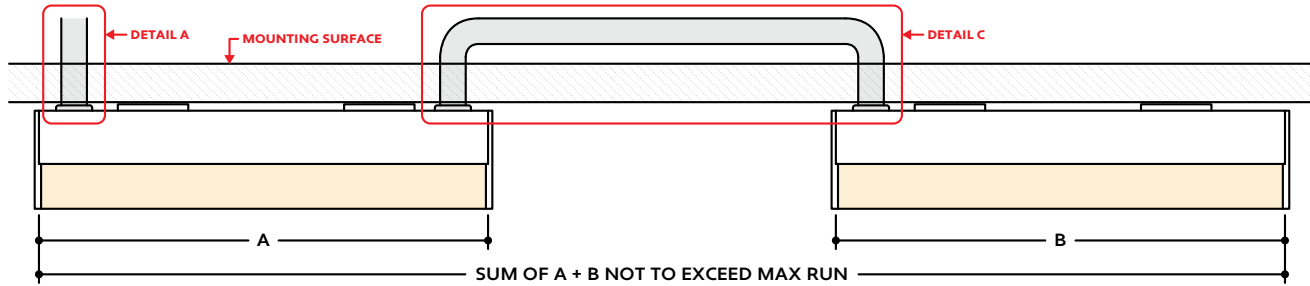
### Individual Fixture



### Continuous Run



### Run with Conduit Jumper



## KEY

- Detail A** **Conduit Power Feed:** Power is fed to the run via conduit. Conduit & conduit fittings by others.
- Detail B** **Continuous Connection:** Luminaire segments connect using internal continuous connectors, leaving no gaps between segments. Refer to installation instructions for additional information.
- Detail D** **Conduit Jumper:** A conduit jumper is used to span a corner or traverse a gap or obstacle in the installation area. Conduit & conduit fittings by others.

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