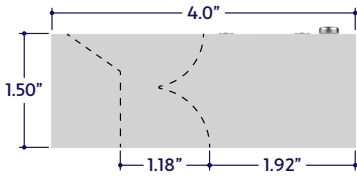
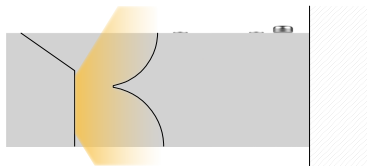


END VIEW / DIMENSIONS



MOUNTING OPTION



Surface

LENS / OPTICS APPEARANCE



100% Frosted Lens (F)
No Diode Image: Line of Light
25% Light Loss

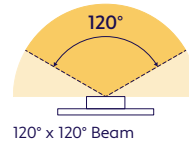
GENERAL FEATURES

Applications	Accent, Cove, Perimeter Lighting
Lens	100% Frosted: No Pixelation (Line of Light)
Viewing Angle	120°
Length	Built to Order (+/- 1.8" Tolerance) See Length Restrictions Table for details
Construction	Aluminum Extrusion
Weight	0.38 lbs per foot
Mounting	Mounting Brackets (Sold Separately)
Listing	Dry or Damp Location UL1598, CSA C22.2#250.0 UL8750, CSA250 UL2108, 67.1.9, 60.4, CSA C22.2 #9
Driver	Remote (Sold Separately)
Temperature Ratings	Operating / Startup: -20° to 48°C (-4° to 120°F) Storage: -40° to 76°C (-40° to 170°F)
Installation Link	

ELECTRICAL

Dimming	0-10V, DMX, DALI
Luminaire Voltage	120V - 277V (UNV)

BEAM ANGLE



SPECIFY PRODUCT CODE | CHOOSE FROM DROP DOWNS

Series	Lens / Optics	Finish	BIOS LED	Watts per Foot ⁵	Dimming	Listing	Luminaire Voltage ⁷	Luminaire Length
A1-ZUCO-IND-BIOS	F						UNV	
ZUCO Indirect BIOS Illuminated (A1-ZUCO-IND-BIOS)	100% Frosted Lens (F)	Natural Silver ¹ (NA)	BIOS Biological Static: 3500K Daytime ² (BS-35K)	1.5 Watts (1.5W) 232 Lumens / ft ⁶ 2 Watts (2W) 310 Lumens / ft ⁶ 3 Watts (3W) 465 Lumens / ft ⁶ 4 Watts (4W) 620 Lumens / ft ⁶	0-10V (10V) DALI (DALI)	Indoor (DRY) Outdoor (DAMP)	120 - 277V Line Voltage (UNV)	Specify Length in Feet & Inches Example: 7'8"
		Silver (SR)	BIOS Biological Dynamic: 3500K Daytime - 3000K Evening ¹ (BD-35K-30K)	5 Watts (5W) 775 Lumens / ft ⁶ 6 Watts (6W) 930 Lumens / ft ⁶ 8 Watts (8W) 1240 Lumens / ft ⁶	DMX-512 (DMX)			
		White (WH)		BIOS Biological Tunable: 3500K Daytime - 2700K Evening ¹ (BT-35K-27K)		10 Watts (10W) 1550 Lumens / ft ⁶ 12 Watts (12W) 1860 Lumens / ft ⁶		
		Satin (SA)						
		Black (BK)						

Note: See page 2 for ordering notes & restrictions.

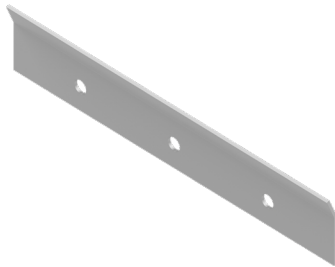
ORDERING NOTES & RESTRICTIONS

- *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 Watts per Foot available in standard 10 Watts. Consult factory for other watts per foot options.
- *6 Lumens per Foot based on 35K CCT LED.
Example: 155 Lumens x 10 Watts = 1550 Lumens per Foot.
- *7 Remote 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.

MAXIMUM RUNS & LENGTH RESTRICTIONS

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

MOUNTING ACCESSORIES (Sold Separately)

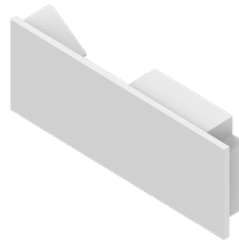


Mounting Bracket
(A1-ZUCO-IND-MB)

Part #	Qty.
A1-ZUCO-IND-MB	

Note: Use 1 Mounting Bracket per 2'.
Refer to installation instructions for details.

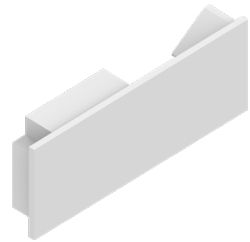
END CAPS (Sold Separately)



Left End Cap
(A1-ZUCO-IND-ECL)

Part #	Qty.
A1-ZUCO-IND-ECL	

Note: Use 1 Left End Cap for each terminus on the left side.



Right End Cap
(A1-ZUCO-IND-ECR)

Part #	Qty.
A1-ZUCO-IND-ECR	

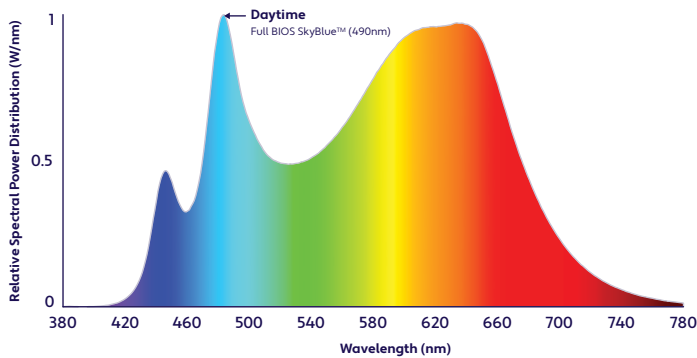
Note: Use 1 Right End Cap for each terminus on the right side.

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).

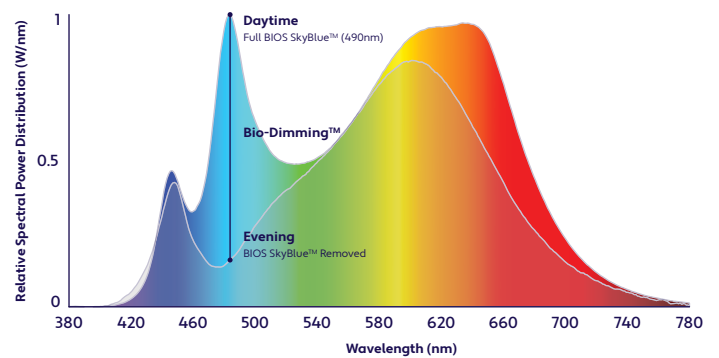
BIOS Biological Static 3500K Daytime (No CCT Change when Dimmed)



Daytime Solution (Offices, Medical / Dental Offices)

Spaces in operation during daytime hours, between 7AM and 7PM

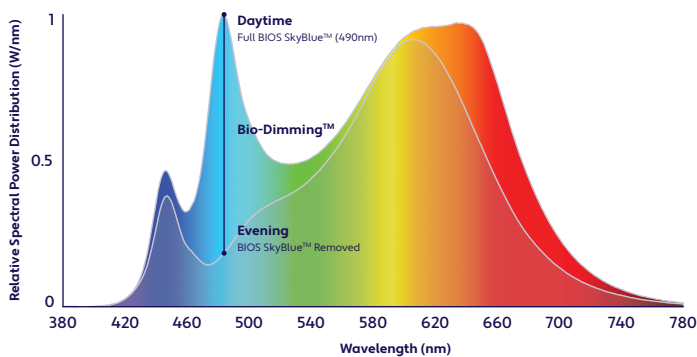
BIOS Biological Dynamic 3500K Daytime Dims to 3000K Evening



Daytime + Evening Solution (Hospitals)

Spaces in operation overnight, after 7PM and before 7AM
CCT color shift in the evening not preferred

BIOS Biological Tunable 3500K Daytime Dims to 2700K Evening

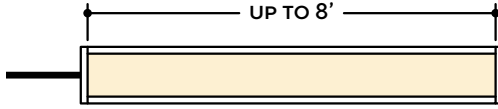


Daytime + Evening Solution (Offices, Shiftwork)

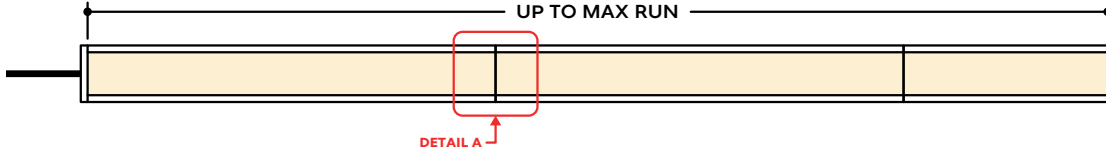
Spaces in operation overnight, after 7PM and before 7AM
CCT color shift in the evening is preferred

DESIGN GUIDELINES

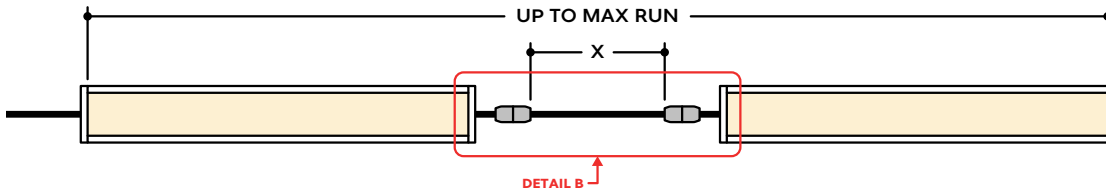
Individual Fixture



Continuous Run (Dry Location)



Runs with Continuous Connector (Dry Location)



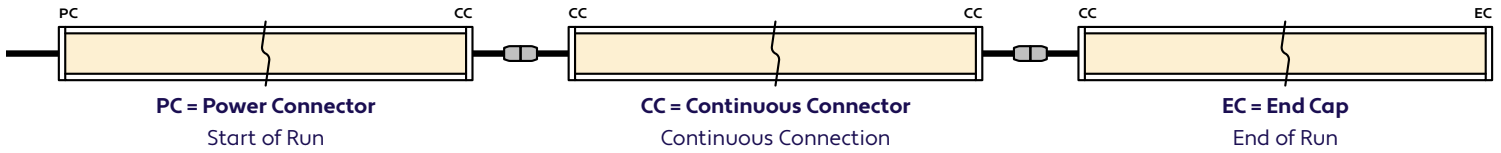
KEY

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

Detail B **Dry Continuous Connector:** Used to span a corner or traverse a gap, corner, or obstacle in a dry location installation area.

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

CONNECTION SEQUENCE

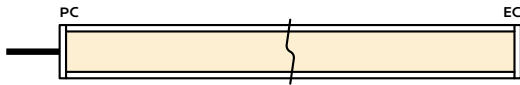


- Specifying a layout is not required to place an order.
- Configuration code applies to full length ordered and will be built per the Continuous Run models on Design Guidelines.
- Connector type subject to change based on availability and listing. Refer to Design Guidelines for details.

HOW TO SPECIFY CONFIGURATIONS

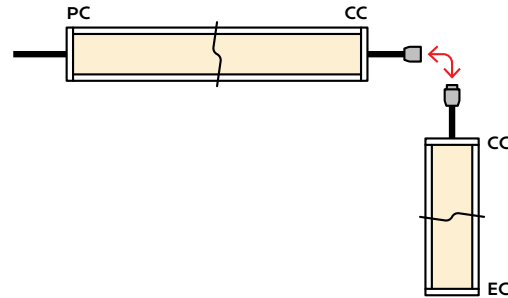
Example: 20' Straight Run

- 1x A1-ZUCO-IND-BIOS-CL-NA-BS-35K-10W-10V-DRY-UNV-9'-PC-EC



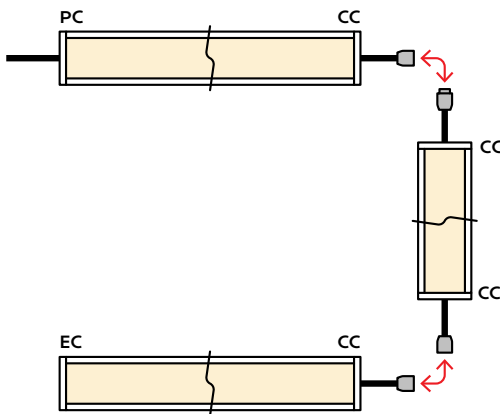
Example: 25' L-Shaped Run

- 1x A1-ZUCO-IND-BIOS-CL-NA-BS-35K-10W-10V-DRY-UNV-6'-PC-CC
- 1x A1-ZUCO-IND-BIOS-CL-NA-BS-35K-10W-10V-DRY-UNV-7'-CC-EC



Example: 30' U-Shaped Run

- 1x A1-ZUCO-IND-BIOS-CL-NA-BS-35K-10W-10V-DRY-UNV-6'-PC-CC
- 1x A1-ZUCO-IND-BIOS-CL-NA-BS-35K-10W-10V-DRY-UNV-9'-CC-CC
- 1x A1-ZUCO-IND-BIOS-CL-NA-BS-35K-10W-10V-DRY-UNV-6'-CC-EC



Example: 28' Rectangle Shaped Run

- 1x A1-ZUCO-IND-BIOS-CL-NA-BS-35K-10W-10V-DRY-UNV-5'-PC-CC
- 1x A1-ZUCO-IND-BIOS-CL-NA-BS-35K-10W-10V-DRY-UNV-3'-CC-CC
- 1x A1-ZUCO-IND-BIOS-CL-NA-BS-35K-10W-10V-DRY-UNV-5'-CC-CC
- 1x A1-ZUCO-IND-BIOS-CL-NA-BS-35K-10W-10V-DRY-UNV-3'-CC-EC

