



VARIABLE WHITE RIBBONLYTE

Light, at its very essence, is captivating. It warms us. It envelops and blankets us. But light is not a static entity with a single, defining characteristic, and nowhere is that more evident than in the natural light we absorb from the sun.

The beauty of sunlight is ever-changing. From the delicate glow of the early dawn hours to the intense glare of a bright, summer afternoon, the world is bathed in a luminance of endlessly transforming color and intensity.

Our Variable White RibbonLyte was created to mirror this daily rhythm. No longer tethered to a defined color temperature, this light allows you to recreate the light you'd observe any time of day you desire; all at the push of a button or turn of a dial.

Pictured: Variable White Amber



VARIABLE WHITE 3.0

RoHS
Compliant



Dry or wet location flexible LEDs

12 or 24 Volt

3.0 Watts per foot, 36 LEDs per foot

IP65 and IP68 versions are UV resistant

Warm and cool LEDs - 2400K-6500K CCT range

Cuttable every 0.98 inches (12V) or 1.97 inches (24V)

DIMENSIONS

3.0 - 12 Volt

LED on center: 0.33 Inches / 8.4 mm →

Height: 0.088 Inches / 2.2 mm →

Width: 0.31 Inches / 8 mm

Length between cuttable points: 0.98 Inches / 25 mm →

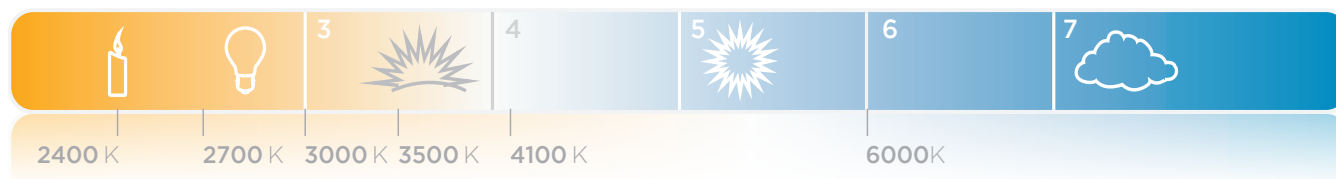
3.0 - 24 Volt

LED on center: 0.33 Inches / 8.4 mm →

Height: 0.088 Inches / 2.2 mm →

Width: 0.31 Inches / 8 mm

Length between cuttable points: 1.97 Inches / 50 mm →



PART NUMBER BUILDER

Category

RB

+

Waterproof

+

Voltage

+

Variation

VW

=

Your Part Number
Example: RB12VW

65 - IP65

68 - IP68

Blank - None (IP40)

12 - 12V

24 - 24V

Rev. 2014.04.10

VARIABLE WHITE 3.0

SPECIFICATIONS VARIABLE WHITE 3.0

Operating Voltage	12 Volt / 24 Volt	
Power Consumption	3.0 Watts / Linear Foot	
Milliamperes	12v: 250 mA / Foot 24v: 125 mA / Foot	
Protection Rating	IP40/IP65/IP68	
Dimming	DMX	
Operating Temperature	-40° C to 70° C	
Color Temperature	Warm and Cool LEDs - 2400K-6500K CCT range	
Lumen Output	89.6 lm/ft - 181.44 lm/ft	
Binning Tolerance	+/- 100K	
LED Beam Angle	160°	
Lamp Life	50,000 Hours	
Cuttable	12v: Every 0.98" (25 mm)	24v: Every 1.97" (50 mm)
Lumens per Watt	29.9 - 60.5 lm/W	
Constant Voltage	Yes	
Max Length Before Additional Power is Needed	12V: 19' 8.2" (6 Meters)	24V: 32' 9.7" (10 Meters)

DIMENSIONS VARIABLE WHITE 3.0

IP40 + IP65

Width	0.31" / 8 mm	
Length	Up to 19' 8.2" (12V) in ~1 inch sections or 32' 9.7" (24V) in ~2 inch sections	
Height	IP40: 0.088" / 2.2 mm	IP65: 0.125" / 3.2 mm

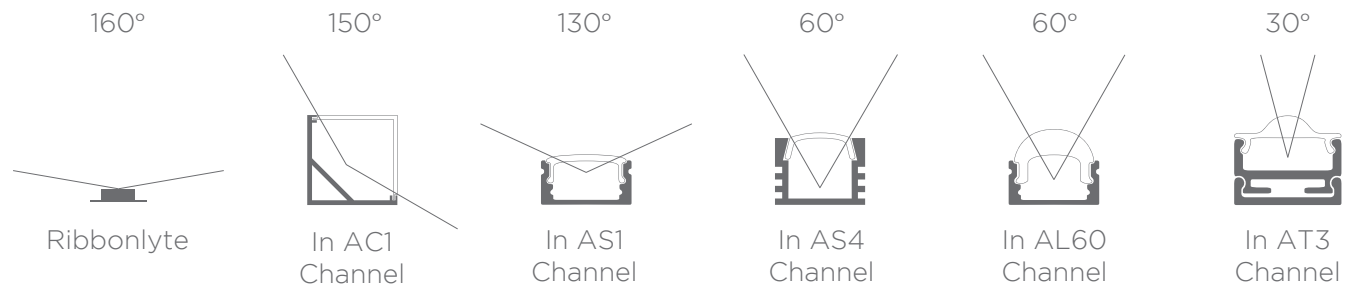
OUTDOOR - IP68

Width	0.41" / 10.4 mm	
Length	Up to 19' 8.2" (12V) in ~1 inch sections or 32' 9.7" (24V) in ~2 inch sections	
Height	0.18" / 4.5 mm	

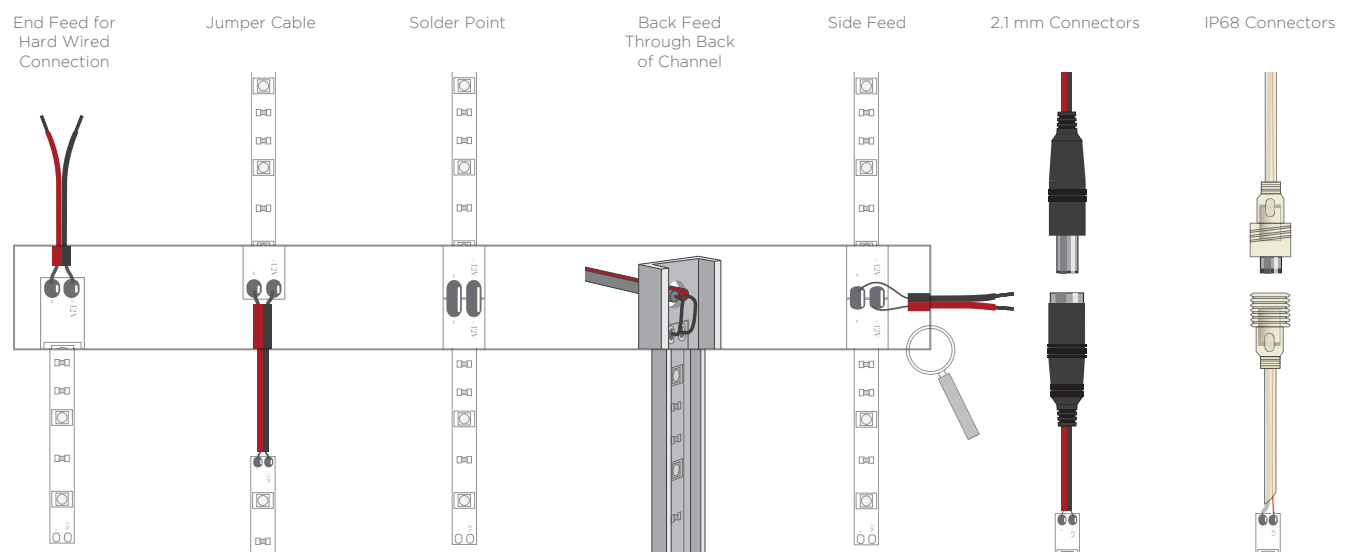
Rev. 2014.04.10

VARIABLE WHITE 3.0

SAMPLE BEAM ANGLES



CONNECTION OPTIONS



CHANNEL COMPATIBILITY

Protection	Compatible Channels
Non-Waterproof (IP40)	All Channel
IP65	All Channel
IP68	All Channel

Rev. 2014.04.10

VARIABLE WHITE 3.0

USAGE GUIDELINES

Compatible with a wide variety of control products including the entire line of Lutron dimming systems.

For use with Acolyte drivers, triac dimming modules, 0-10 modules and interface controllers (DMXINF models).

Use with non-Acolyte triac, MLV or ELV drivers is not supported or warrantied.

Due to the nature of the product, RibbonLyte cuttable lengths are generally longer or shorter than the customer requested length. Unless specified, RibbonLyte is factory cut at the shorter cuttable point.

IP65 and IP68 versions can be used in wet, outdoor locations around swimming pools and spa tubs, but not submerged in swimming pools and spa tubs.

We reserve the right to make changes to product lineup, specifications, design and finishes at any time without notice.

ACCESSORIES VARIABLE WHITE 3.0



CHANNEL
See Acolyte Channel Guide



DRIVERS
See Acolyte Drivers Guide



CONTROLLERS
See Acolyte Controllers Guide



PARTS AND ACCESSORIES
See Acolyte Parts and Accessories Guide

VARIABLE WHITE COMPARISON GUIDE

SPECIFICATIONS	VW	VWA	VWR
Operating Voltage	12 V and 24 V versions		
Power Consumption	3.0 W / Ft	6.0 W / Ft	6.0 W / Ft
Current (mA) - 12 V	250	500	500
Current (mA) - 24 V	125	250	250
Protection Rating	IP45, IP65 and IP68		
Beam Angle	160°	V: 114.3°, H: 112.7°	V: 114.3°, H: 112.7°
Color Temperatures	Warm White + Cool White	WW + CW + Amber	WW + CW + Red
LED's / Foot	36	72	72
Width - IP45 / IP65	0.31"	0.50"	0.50"
Width - IP68	0.41"	0.66"	0.66"
Cuttable Length - 12 V	0.98"	1.97"	1.97"
Cuttable Length - 24 V	1.97"	3.94"	3.94"
Max Length - 12 V	19' 8.2"	19' 8.2"	19' 8.2"
Max Length - 24 V	32' 9.7"	26' 3.0"	26' 3.0"
Lumen / Ft - All On	181.44	227.7	225.6
Lumen / Ft - CW	89.60	88.10	90.10
Lumen / Ft - WW	93.80	95.10	92.50
Lumen / Ft - Red	--	--	37.70
Lumen / Ft - Amber	--	42.1	--
Lumens / Watt - All On	60.48	37.95	37.60
Lumens / Watt - CW	29.87	14.33	16.82
Lumens / Watt - WW	31.27	14.91	16.76
Lumens / Watt - Red	--	--	7.63
Lumens / Watt - Amber	--	7.18	--
CRI - All On	63.2	55.48	91.33
CRI - CW	73	73.43	73.01
CRI - WW	53	53.37	52.99
CRI - Red	--	--	18.15
CRI - Amber	--	--	--



VARIABLE WHITE RIBBONLYTE

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Pictured: Variable White Amber



Warm white + Cool white + Amber

VARIABLE WHITE AMBER

RoHS
Compliant



Dry or wet location flexible LEDs

12 or 24 Volt

6.0 Watts per foot, 72 LEDs per foot

IP65 and IP68 versions are UV resistant

Warm, cool and amber LEDs - 1800K-6500K CCT range

Cuttable every 1.97 inches (12V) or 3.94 inches (24V)

Amber LED is 590 nm; safe for wildlife preservation areas where proper wavelength of light is critical

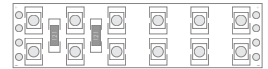
DIMENSIONS

6.0 - 12 Volt

LED on center: 0.33 Inches / 8.4 mm → |←|

Height: 0.088 Inches / 2.2 mm → |←|

Width: 0.5 Inches / 12.7 mm



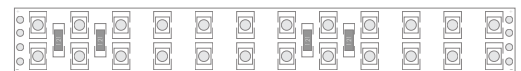
Length between cuttable points: |← 1.97 Inches / 50 mm →|

6.0 - 24 Volt

LED on center: 0.33 Inches / 8.4 mm → |←|

Height: 0.088 Inches / 2.2 mm → |←|

Width: 0.5 Inches / 12.7 mm



Length between cuttable points: |← 3.94 Inches / 100 mm →|



PART NUMBER BUILDER

Category

RB

+

Waterproof

65 - IP65
68 - IP68
Blank - None (IP40)

+

Voltage

12 - 12V
24 - 24V

Variation

VWA

=

Your Part Number
Example: RB12VWA

Rev. 2014.04.10

VARIABLE WHITE AMBER

SPECIFICATIONS VARIABLE WHITE AMBER

Operating Voltage	12 Volt / 24 Volt	
Power Consumption	6.0 Watts / Linear Foot	
Amperage	12v: 500 mA / Foot	24v: 250 mA / Foot
Protection Rating	IP40/IP65/IP68	
Dimming	DMX	
Operating Temperature	-40° C to 70° C	
Color Temperature	Warm, cool and amber LEDs - 1800K-6500K CCT range	
Lumen Output (per foot)	227.7 lm/ft (when all 3 channels at 100%)	
Binning Tolerance	+/- 100K	
LED Beam Angle	Vertical spread: 114.6°, Horizontal spread: 112.6°	
Lamp Life	50,000 Hours	
Cuttable	12v: Every 1.97" (50 mm)	24v: Every 3.94" (100 mm)
CRI *CRI >90 available upon request	Ra: >55.48	
CIE 31' Chromacity Coordinate	x: .434, y: .381	
CIE 76' Chromacity Coordinate	u: .259, v: .511	
Lumens per Watt (per foot)	37.95 lm/W	
Constant Voltage	Yes	
Max Length Before Additional Power is Needed	12V: 19' 8.2" (6 Meters)	24V: 26' 3.0" (8 Meters)

DIMENSIONS VARIABLE WHITE AMBER

IP40 + IP65

Width	0.50" / 12.7 mm	
Length	Up to 19.7' (12V) in ~2 inch sections or 26.25' (24V) in ~4 inch sections	
Height	IP40: 0.088" / 2.2 mm	IP65: 0.125" / 3.2 mm

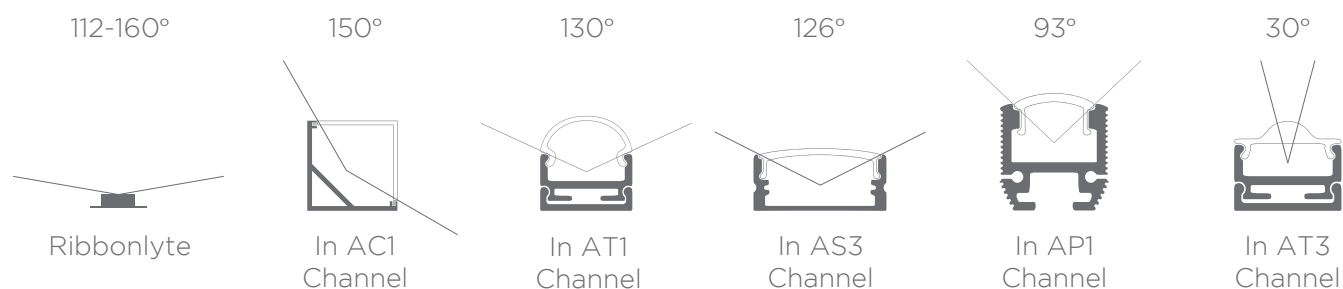
OUTDOOR - IP68

Width	0.66" / 16.8 mm	
Length	Up to 19.7' (12V) in ~2 inch sections or 26.25' (24V) in ~4 inch sections	
Height	0.18" / 4.5 mm	

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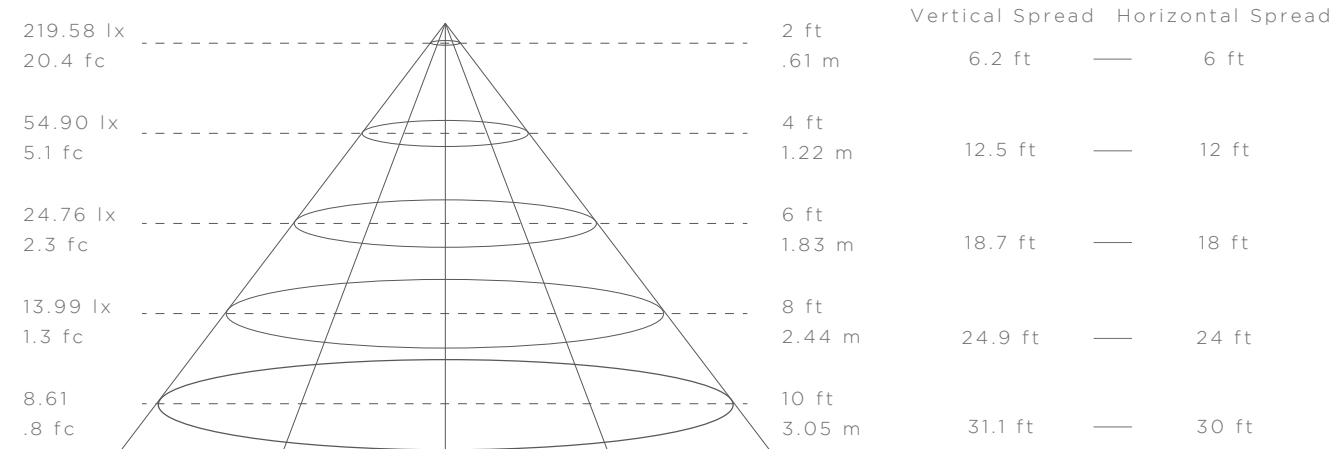
VARIABLE WHITE AMBER

SAMPLE BEAM ANGLES



ILLUMINANCE DATA

Illuminance per foot (in lux and footcandles)



CONNECTION OPTIONS

(See Acolyte Parts & Accessories Guide)

CHANNEL COMPATIBILITY

Protection	Compatible Channels
Non-Waterproof (IP40)	AC1, AC2, AC3, AC4, AC5, AR3, AS3, AT1, AT2, AT3, AP1, W31, W35, WH35
IP65	AC1, AC2, AC3, AC4, AC5, AR3, AS3, AT1, AT2, AT3, AP1, W31, W35, WH35
IP68	AC4, AC5, AR3, AS3, AT1, AT2, AT3, W31, W35, WH35

Rev. 2014.04.10

VARIABLE WHITE AMBER

USAGE GUIDELINES

Compatible with a wide variety of control products including the entire line of Lutron dimming systems.

For use with Acolyte drivers, triac dimming modules, 0-10 modules and interface controllers (DMXINF models).

Use with non-Acolyte triac, MLV or ELV drivers is not supported or warrantied.

Due to the nature of the product, RibbonLyte cuttable lengths are generally longer or shorter than the customer requested length. Unless specified, RibbonLyte is factory cut at the shorter cuttable point.

IP65 and IP68 versions can be used in wet, outdoor locations around swimming pools and spa tubs, but not submerged in swimming pools and spa tubs.

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ACCESSORIES VARIABLE WHITE AMBER



CHANNEL
See Acolyte Channel Guide



DRIVERS
See Acolyte Drivers Guide



CONTROLLERS
See Acolyte Controllers Guide



PARTS AND ACCESSORIES
See Acolyte Parts and Accessories Guide

VARIABLE WHITE COMPARISON GUIDE

SPECIFICATIONS	VW	VWA	VWR
Operating Voltage	12 V and 24 V versions		
Power Consumption	3.0 W / Ft	6.0 W / Ft	6.0 W / Ft
Current (mA) - 12 V	250	500	500
Current (mA) - 24 V	125	250	250
Protection Rating	IP45, IP65 and IP68		
Beam Angle	160°	V: 114.3°, H: 112.7°	V: 114.3°, H: 112.7°
Color Temperatures	Warm White + Cool White	WW + CW + Amber	WW + CW + Red
LED's / Foot	36	72	72
Width - IP45 / IP65	0.31"	0.50"	0.50"
Width - IP68	0.41"	0.66"	0.66"
Cuttable Length - 12 V	0.98"	1.97"	1.97"
Cuttable Length - 24 V	1.97"	3.94"	3.94"
Max Length - 12 V	19' 8.2"	19' 8.2"	19' 8.2"
Max Length - 24 V	32' 9.7"	26' 3.0"	26' 3.0"
Lumen / Ft - All On	181.44	227.7	225.6
Lumen / Ft - CW	89.60	88.10	90.10
Lumen / Ft - WW	93.80	95.10	92.50
Lumen / Ft - Red	--	--	37.70
Lumen / Ft - Amber	--	42.1	--
Lumens / Watt - All On	60.48	37.95	37.60
Lumens / Watt - CW	29.87	14.33	16.82
Lumens / Watt - WW	31.27	14.91	16.76
Lumens / Watt - Red	--	--	7.63
Lumens / Watt - Amber	--	7.18	--
CRI - All On	63.2	55.48	91.33
CRI - CW	73	73.43	73.01
CRI - WW	53	53.37	52.99
CRI - Red	--	--	18.15
CRI - Amber	--	--	--



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Pictured: Variable White Amber



Warm white + Cool white + Red

VARIABLE WHITE RED

RoHS
Compliant



Dry or wet location flexible LEDs

12 or 24 Volt

6.0 Watts per foot, 72 LEDs per foot

IP65 and IP68 versions are UV resistant

Warm, cool and amber LEDs - 1800K-6500K CCT range

Cuttable every 1.97 inches (12V) or 3.94 inches (24V)

DIMENSIONS

6.0 - 12 Volt

LED on center: 0.33 Inches / 8.4 mm → | |

Height: 0.088 Inches / 2.2 mm → | |

Width: 0.5 Inches / 12.7 mm | |

Length between cuttable points: | 1.97 Inches / 50 mm |

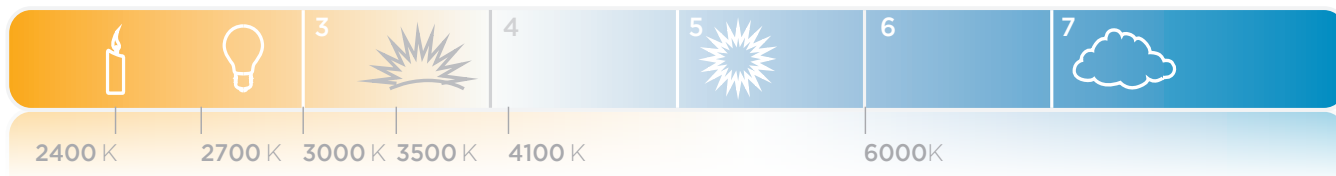
6.0 - 24 Volt

LED on center: 0.33 Inches / 8.4 mm → | |

Height: 0.088 Inches / 2.2 mm → | |

Width: 0.5 Inches / 12.7 mm | |

Length between cuttable points: | 3.94 Inches / 100 mm |



PART NUMBER BUILDER

Category

RB

+

Waterproof

+

Voltage

+

Variation

VWR

=

Your Part Number
Example: RB12VWR

65 - IP65

68 - IP68

Blank - None (IP40)

12 - 12V

24 - 24V

Rev. 2014.04.10

VARIABLE WHITE RED

SPECIFICATIONS VARIABLE WHITE RED

Operating Voltage	12 Volt / 24 Volt	
Power Consumption	6.0 Watts / Linear Foot	
Amperage	12v: 500 mA / Foot 24v: 250 mA / Foot	
Protection Rating	IP40/IP65/IP68	
Dimming	DMX	
Operating Temperature	-40° C to 70° C	
Color Temperature	Warm, cool and amber LEDs - 1800K-6500K CCT range	
Lumen Output (per foot)	225.6 lm/ft (when all 3 channels at 100%)	
Binning Tolerance	+/- 100K	
LED Beam Angle	Vertical spread: 114.3°, Horizontal spread: 112.7°	
Lamp Life	50,000 Hours	
Cuttable	12v: Every 1.97" (50 mm)	24v: Every 3.94" (100 mm)
CRI	Ra: >91.33	
CIE 31' Chromacity Coordinate	x: .473, y: .362	
CIE 76' Chromacity Coordinate	u: .296, v: .509	
Lumens per Watt (per foot)	37.6 lm/W	
Constant Voltage	Yes	
Max Length Before Additional Power is Needed	12V: 19' 8.2" (6 Meters)	24V: 26' 3.0" (8 Meters)

DIMENSIONS VARIABLE WHITE RED

IP40 + IP65

Width	0.50" / 12.7 mm	
Length	Up to 19.7' (12V) in ~2 inch sections or 26.25' (24V) in ~4 inch sections	
Height	IP40: 0.088" / 2.2 mm	IP65: 0.125" / 3.2 mm

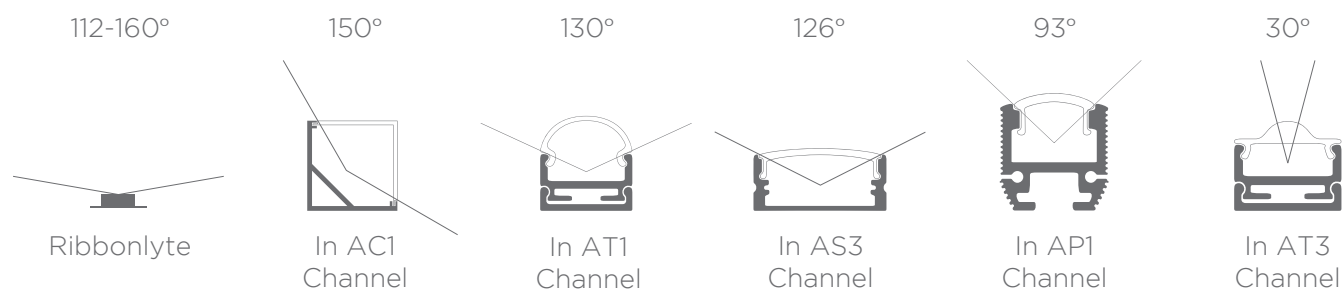
OUTDOOR - IP68

Width	0.66" / 16.8 mm	
Length	Up to 19.7' (12V) in ~2 inch sections or 26.25' (24V) in ~4 inch sections	
Height	0.18" / 4.5 mm	

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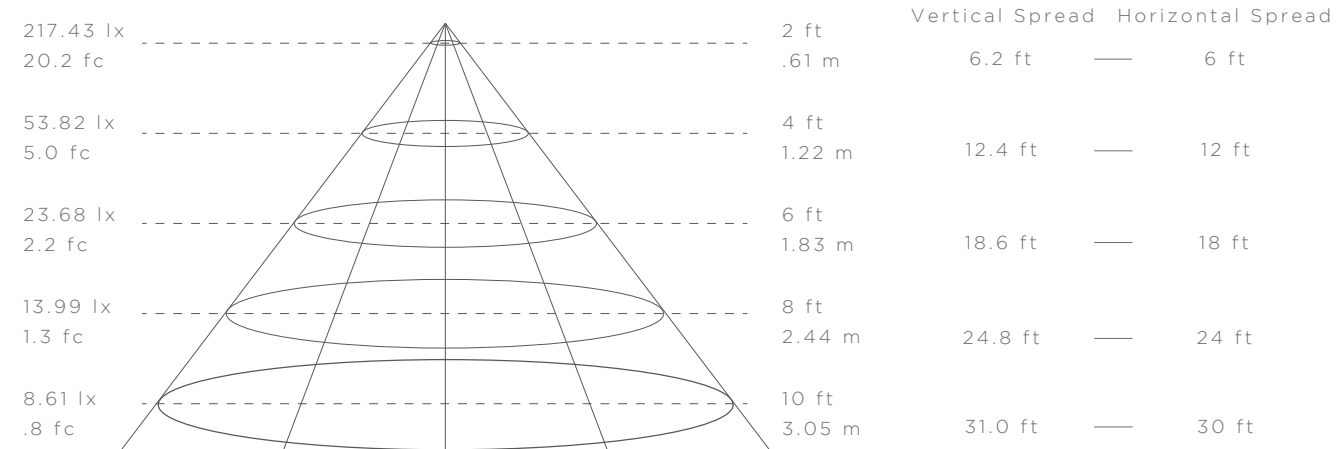
VARIABLE WHITE RED

SAMPLE BEAM ANGLES



ILLUMINANCE DATA

Illuminance per foot (in lux and footcandles)



CONNECTION OPTIONS

(See Acolyte Parts & Accessories Guide)

CHANNEL COMPATIBILITY

Protection

Non-Waterproof (IP40)

IP65

IP68

Compatible Channels

AC1, AC2, AC3, AC4, AC5, AR3, AS3, AT1, AT2, AT3, AP1, W31, W35, WH35

AC1, AC2, AC3, AC4, AC5, AR3, AS3, AT1, AT2, AT3, AP1, W31, W35, WH35

AC4, AC5, AR3, AS3, AT1, AT2, AT3, W31, W35, WH35

Rev. 2014.04.10

VARIABLE WHITE RED

USAGE GUIDELINES

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ACCESSORIES VARIABLE WHITE RED



CHANNEL
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CONTROLLERS
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PARTS AND ACCESSORIES
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Power Consumption	3.0 W / Ft	6.0 W / Ft	6.0 W / Ft
Current (mA) - 12 V	250	500	500
Current (mA) - 24 V	125	250	250
Protection Rating	IP45, IP65 and IP68		
Beam Angle	160°	V: 114.3°, H: 112.7°	V: 114.3°, H: 112.7°
Color Temperatures	Warm White + Cool White	WW + CW + Amber	WW + CW + Red
LED's / Foot	36	72	72
Width - IP45 / IP65	0.31"	0.50"	0.50"
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Cuttable Length - 12 V	0.98"	1.97"	1.97"
Cuttable Length - 24 V	1.97"	3.94"	3.94"
Max Length - 12 V	19' 8.2"	19' 8.2"	19' 8.2"
Max Length - 24 V	32' 9.7"	26' 3.0"	26' 3.0"
Lumen / Ft - All On	181.44	227.7	225.6
Lumen / Ft - CW	89.60	88.10	90.10
Lumen / Ft - WW	93.80	95.10	92.50
Lumen / Ft - Red	--	--	37.70
Lumen / Ft - Amber	--	42.1	--
Lumens / Watt - All On	60.48	37.95	37.60
Lumens / Watt - CW	29.87	14.33	16.82
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CRI - Amber	--	--	--