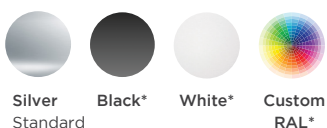


W31 CHANNEL FIXTURE

W31 Channel Fixture is recessed with a 56-degree beam angle. We offer a choice of clear, frosted and milky lenses to create a full range of light output and design options. Custom design a fixture for nearly any application with our Classic W31 Channel and RibbonLyte products.

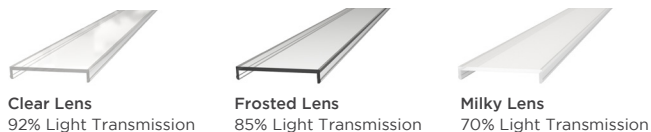
- Available for field assembly or factory assembly
- Beam Angle 56°
- Wattage Range from 3 W/ft (9.8 W/m) to 12 W/ft (39.4 W/m)
- Static White delivered lumen range from 202 lm/ft (662 lm/m) up to 1273 lm/ft (4176 lm/m)
- Assembled in USA

HOUSING FINISHES

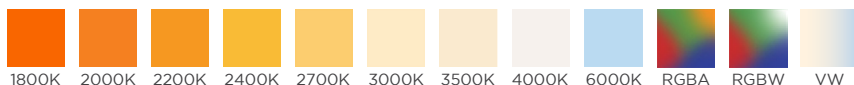


*Additional fee applies

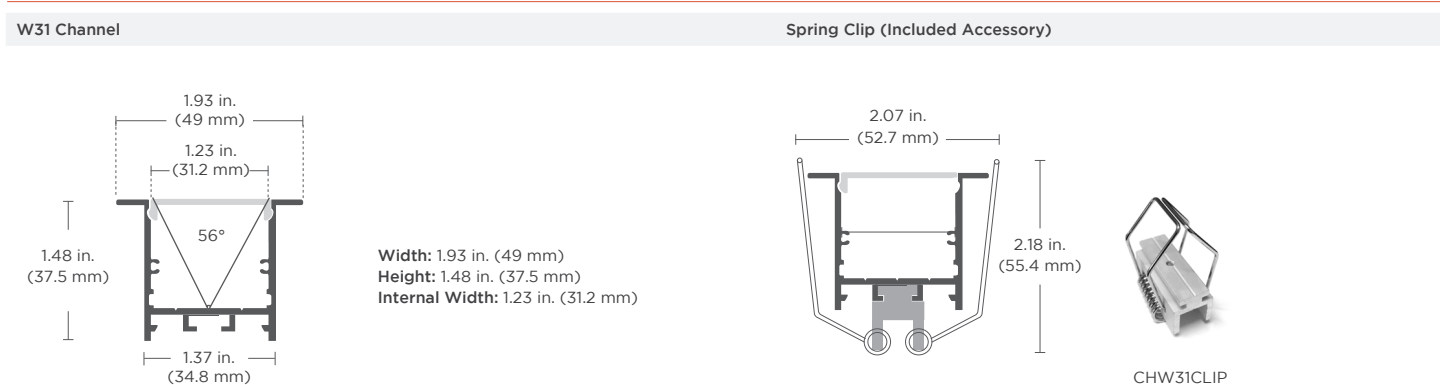
AVAILABLE LENS FINISHES



AVAILABLE COLORS & COLOR TEMPERATURES



DIMENSIONS



Note: This channel does not require mounting clips. Please see our installation guide for instructions.

SPECIFICATIONS

Beam Angle	56°
Lens Type	Clear Lens, Frosted Lens, Milky Lens
Length	Channel is sold by the foot and cut to your exact desired length. Required amount of spring clips included.
Operating Voltage	24V
Dimming	MLV / 0-10 Volt / Lutron Hi-Lume 1% dimming LED drivers / Lutron VIVE code compliance available / ELV / DALI / DMX
Operating Temperature	-40° F to 158° F (-40° C to 70° C)
Colors	1800K, 2000K, 2200K, 2400K, 2700K, 3000K, 3500K, 4000K, 6000K, RGBW, RGBA, VW
CRI	90+ CRI (Static white only)
Lamp Life	L70 at 50,000 Hours
MacAdam Ellipses (SDCM)	2-Step Binning (For Static White LEDs only)
Certifications	ETL Listed: UL 2108 Issued: 2004/02/27 Ed: 1 Rev: 2014/02/24 Low Voltage Lighting Systems CSA C22.2#9.0 Issued: 1996/06/01 Ed: 1 (R2011) General Requirements for Luminaires; with Gen. Inst. 1: 1997, Gen Inst. 2: 1998. ROHS compliant UL 2108 - Low Voltage Lighting Systems UL 8750 - Light Emitting Diode (LED) Equipment for Use in Lighting Products UL 1598 / CSA 250.0-08 - Luminaires

ORDERING GUIDE

STEP 1 Complete Channel Part Number

CHANNEL	LENS	HOUSING COLOR
CHW31		
CHW31 - W31 Channel	C - Clear Lens* M - Milky Lens F - Frosted Lens * Clear lens is the default option if not specified.	SV - Silver (default) WH - White BK - Black Consult factory for custom colors

STEP 2 Complete RibbonLyte Part Number

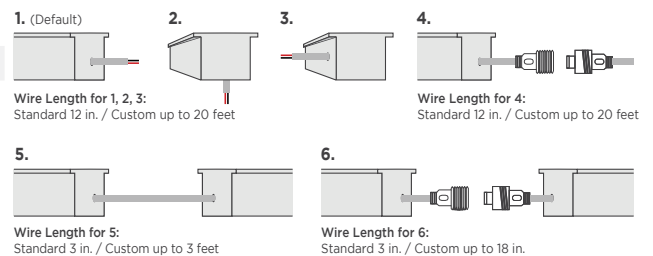
CATEGORY	CRI	RIBBON TYPE & IP RATING
RB		
RB - RibbonLyte	0 - Static Color, Color Changing 90 - 90+ CRI Static White	SWDR20 - Static White Double Row IP20 RGBWADR20 - RGBW/A Double Row IP20 VWADR20 - Variable White Double Row IP20

WATTAGE	COLOR
3.0 - 3.0 W/ft (9.8 W/m - Static White, Variable White, RGBW, RGBA)	18 - 1800K VW - Variable White 20 - 2000K RGB27 - Red, Green, Blue + 2700K 22 - 2200K RGB30 - Red, Green, Blue + 3000K 24 - 2400K RGB40 - Red, Green, Blue + 4000K 27 - 2700K RGB60 - Red, Green, Blue + 6000K 30 - 3000K RGBA - Red, Green, Blue + Amber 35 - 3500K Z - Undecided** 40 - 4000K ** For quotes only. Must be chosen before final order. 60 - 6000K

CONNECTION OPTIONS (See diagrams on the right)

- 1 - End Feed Bare Wire Connection
- 2 - Back Feed Bare Wire Connection
- 3 - Side Feed Bare Wire Connection
- 4 - End Feed with IP67 Male Coupler
- 5 - Soldered Daisy Chain
- 6 - Daisy Chain With IP67 Couplers

Custom Length (ft.)



STEP 3 Complete Assembly Option & Length

ASSEMBLY OPTION	LENGTH (Standard factory assembled length up to 78 in. / 2 m)
FI - Field Assembly	
FA - Factory Assembly	

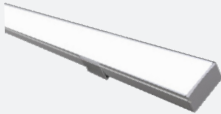
RIBBONLYTE SPECIFICATIONS & COMPATIBILITY

Available Wattages	Cuttable Length	LED Pitch	Color Temp.	lm/W without Lens	Delivered Lumens with Clear Lens (lm/ft / lm/m)	Delivered Lumens with Frosted Lens (lm/ft / lm/m)	Delivered Lumens with Milky Lens (lm/ft / lm/m)	Max Length	Compatible with Channel		
									IP20	IP65	IP68
3.0 Static White Double Row	0.7 in. (17.9 mm)	136 LEDs/ft (448 LEDs/m)	1800K	73	206 / 676	204 / 669	202 / 662	65 ft (20 m)	✓	N/A	N/A
			2000K	86	243 / 798	240 / 787	238 / 781				
			2200K	94	266 / 872	263 / 863	260 / 853				
			2400K	97	273 / 896	270 / 886	267 / 877				
			2700K	109	308 / 1010	304 / 997	301 / 989				
			3000K	118	333 / 1092	330 / 1082	326 / 1069				
			3500K	119	335 / 1100	333 / 1092	328 / 1077				
			4000K	118	333 / 1092	330 / 1082	326 / 1069				
			6000K	114	323 / 1059	320 / 1050	316 / 1037				
6.0 Static White Double Row	0.7 in. (17.9 mm)	136 LEDs/ft (448 LEDs/m)	1800K	73	412 / 1353	407 / 1335	403 / 1324	39 ft (12 m)	✓	N/A	N/A
			2000K	86	487 / 1597	481 / 1578	476 / 1563				
			2200K	94	531 / 1744	526 / 1725	520 / 1707				
			2400K	97	546 / 1792	541 / 1775	535 / 1754				
			2700K	109	616 / 2021	609 / 1998	603 / 1978				
			3000K	118	666 / 2184	659 / 2162	651 / 2137				
			3500K	119	670 / 2200	663 / 2175	656 / 2153				
			4000K	118	666 / 2184	658 / 2158	651 / 2137				
			6000K	114	646 / 2118	639 / 2096	632 / 2073				
12.0 Static White Double Row	0.7 in. (17.9 mm)	136 LEDs/ft (448 LEDs/m)	1800K	69	783 / 2567	775 / 2542	766 / 2513	30 ft (9 m)	✓	N/A	N/A
			2000K	82	924 / 3031	914 / 2998	904 / 2967				
			2200K	89	1009 / 3310	998 / 3273	987 / 3239				
			2400K	92	1037 / 3403	1026 / 3365	1015 / 3330				
			2700K	104	1169 / 3836	1157 / 3795	1144 / 3754				
			3000K	112	1263 / 4145	1250 / 4100	1236 / 4057				
			3500K	113	1273 / 4176	1259 / 4130	1246 / 4087				
			4000K	112	1263 / 4145	1250 / 4100	1236 / 4057				
			6000K	109	1226 / 4021	1213 / 3979	1200 / 3936				
3.0 Variable White Double Row	1.97 in. (50 mm)	84 LEDs/ft (280 LEDs/m)	2000K + 6500K	87	245 / 805	243 / 797	240 / 788	41 ft (12.5 m)	✓	N/A	N/A
6.0 Variable White Double Row	1.97 in. (50 mm)	84 LEDs/ft (280 LEDs/m)	2000K + 6500K	82	462 / 1517	457 / 1499	453 / 1485	31 ft (9.5 m)	✓	N/A	N/A
12.0 Variable White Double Row	1.97 in. (50 mm)	84 LEDs/ft (280 LEDs/m)	2000K + 6500K	71	801 / 2628	796 / 2611	784 / 2572	21 ft 4 in. (6.5 m)	✓	N/A	N/A

RIBBONLYTE SPECIFICATIONS & COMPATIBILITY

Available Wattages	Cutttable Length	LED Pitch	Color Temp.	lm/W without Lens	Delivered Lumens with Clear Lens (lm/ft / lm/m)	Delivered Lumens with Frosted Lens (lm/ft / lm/m)	Delivered Lumens with Milky Lens (lm/ft / lm/m)	Max Length	Compatible with Channel		
									IP20	IP65	IP68
3.0 RGBW Double Row	1.3 in. (33 mm)	72 LEDs/ft (240 LEDs/m)	RGBW	91	257 / 842	254 / 833	251 / 824	21 ft 4 in. (6.5 m)	✓	N/A	N/A
3.0 RGBA Double Row	1.3 in. (33 mm)	72 LEDs/ft (240 LEDs/m)	RGBA	78	257 / 842	254 / 833	251 / 824	21 ft 4 in. (6.5 m)	✓	N/A	N/A
6.0 RGBW Double Row	1.3 in. (33 mm)	72 LEDs/ft (240 LEDs/m)	RGBW	91	513 / 1684	518 / 1699	502 / 1648	16 ft 6 in. (5 m)	✓	N/A	N/A
6.0 RGBA Double Row	1.3 in. (33 mm)	72 LEDs/ft (240 LEDs/m)	RGBA	80	513 / 1684	518 / 1699	502 / 1648	16 ft 6 in. (5 m)	✓	N/A	N/A
12.0 RGBW Double Row	1.3 in. (33 mm)	72 LEDs/ft (240 LEDs/m)	RGBW	79	891 / 2924	882 / 2893	872 / 2862	14 ft 6 in. (4.5 m)	✓	N/A	N/A
12.0 RGBA Double Row	1.3 in. (33 mm)	72 LEDs/ft (240 LEDs/m)	RGBA	75	891 / 2924	882 / 2893	872 / 2862	14 ft 6 in. (4.5 m)	✓	N/A	N/A

DIODE VISIBILITY CHART (Data below applies to installations with Milky lens only)

 No Visible Diode = N	 With Visible Diode = Y	
Static White	Color Changing	
3.0/6.0/12.0 Double Row	3.0/6.0/12.0 RGBW/A Double Row	
IP20	IP20	
N	N	
	3.0/6.0/12.0 Variable White Double Row	
	IP20	
	N	

AVAILABLE DRIVERS

NON-DIMMING ELECTRONIC DRIVERS



30W, 60W, 96W Non-Dimming Electronic Class 2 Drivers

Part No.:

- DRVW2430 (30 Watt)
- DRVW2460 (60 Watt)
- DRVW2496 (96 Watt)

Output Voltage: 24 V
Voltage Range: 120-277 VAC
IP Rating: Dry or Damp
UL Listed



240W, 320W Non-Dimming Electronic Drivers

Part No.:

- DRVW24240 (240 Watt)
- DRVW24320 (320 Watt)

Output Voltage: 24 V
Voltage Range: 90-305 VAC
IP Rating: Dry or Damp
UL Recognized



40W Lutron Hi-Lume 1% Dimming Class 2 Drivers

Part No.:

- DRVLUT24403W (40 Watt, 3-wire)
- DRVLUT24402W (40 Watt, 2-wire)

Output Voltage: 24 V
Voltage Range: 120-277 VAC (3-wire model)
or 120V (2-wire model)
IP Rating: Dry or Damp
Dimmable using 2-wire forward phase,
3-wire+G or digital EcoSystem
UL Listed

ELV & MLV DRIVERS WITH COMPATIBLE DIMMERS



60W, 96W, 150W, 300W ELV/MLV Dimmable Drivers

Part No.:

- DRVW2460ELVMLV (60 Watt)
- DRVW2496ELVMLV (96 Watt)
- DRVW24150ELVMLV (150 Watt)
- DRVW24300ELVMLV (300 Watt)

Line Voltage Dimmable Drivers
Output Voltage: 24 V
Voltage Range: 100-277 VAC
IP Rating: IP67
Dimmable
UL, CE, and CSA Listed



LUTRON Skylark Contour Dimmer

Part No.: TRIDIMSKY

Width: 2.94 in (75 mm)
Length: 4.69 in (120 mm)
Depth: 0.30 in (7.6 mm)

- Single pole and 3-way versions
- Compatible with Acolyte MLV drivers
- Slide adjusts brightness and On/Off control
- 30 mA max control current
- Available in white finish



LUTRON NOVA-T Dimmer

Part No.: TRIDIMNOVA

Width: 2.75 in (70 mm)
Length: 4.56 in (116 mm)
Depth: 0.30 in (7.6 mm)

- Slide adjusts brightness and On/Off control
- 30 mA max control current
- Available in white finish



LUTRON DIVA Dimmer

Part No.: TRIDIMDIVA

(With Locator Light) TRIDIMDIVAL

Width: 2.94 in (75 mm)
Length: 4.69 in (120 mm)
Depth: 0.30 in (7.6 mm)

- Large paddle switch with a captive linear-slide dimmer
- 30 mA max control current
- Available in white finish
- Available with locator light which glows green when the switch is off

Note: For more options, please reference the Optional Dimmer List on Acolyte product website page.

AVAILABLE DRIVERS / CONTROLLERS AND DIMMING OPTIONS / WIRE GAUGE CHART

0-10V DRIVERS AND DIMMERS



0-10V Dimmable Waterproof Drivers

96W Part No.: DRVW249610P
288W Part No.: DRVW2428810P
 Output Voltage: 24 V (+/- 0.5V)
 Voltage Range: 100-277 VAC
 Environmental Rating: UL Wet Location
 UL Listed



LUTRON DIVA Dimmer

Part No.: LVDIMDIVA
 Width: 2.94 in (75 mm)
 Length: 4.69 in (120 mm)
 Depth: 0.30 in (7.6 mm)
 • Compatible with 0-10 V Dimming Module
 • Large paddle switch with a captive linear-slide dimmer
 • 30 mA max control current
 • Available in white finish



LUTRON NOVA-T Dimmer

Part No.: LVDIMNOVA
 Width: 2.75 in (70 mm)
 Length: 4.56 in (116 mm)
 Depth: 0.30 in (7.6 mm)
 • Compatible with 0-10 V Dimming Module
 • Slide adjusts brightness and On/Off control
 • 30 mA max control current
 • Available in white finish

DIMMING MODULE



Dual Dimming Module

Part No.: VWDIMMODBCC
 • Programmed for Variable White or Warm Dim
 • Flicker-free 0-100% dimming
 • Independent control over each output channel
 • Works with customizable DMX addresses
 • Incredible efficiency
 • Compact plastic case

Note: The Dual Dimming Module firmware is set at the factory for either Variable White or Warm Dim mode. Please specify which version is needed when ordering.

DMX CONTROLLER AND PART NUMBER - FOR COLOR CHANGING VERSIONS



GLASS TOUCH WALL CONTROLLERS
 Part Number: AWCRGBWW
 AWCVVW



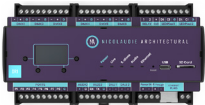
1 ZONE WALL CONTROLLER
 Part Number: DMXCTRLG



5 ZONE WALL CONTROLLER
 Part Number: DMXCTRL



10 ZONE WALL CONTROLLER
 Part Number: DMXCTRLD



2 UNIVERSE DMX CONTROLLER
 Part Number: DMXCTRLDR2U
6 UNIVERSE DMX CONTROLLER
 Part Number: DMXCTRLDR6U



4 CHANNEL WATERPROOF DMX INTERFACE
 Part Number: DMXINFWLCD4



5 CHANNEL DMX INTERFACE
 Part Number: DMXINFLCD5



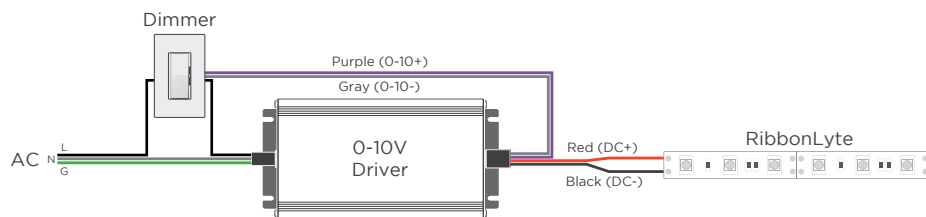
DMX OPTO SPLITTER
 Part Number: DMXOS8

DRIVER AND RIBBONLYTE AT FULL LOAD

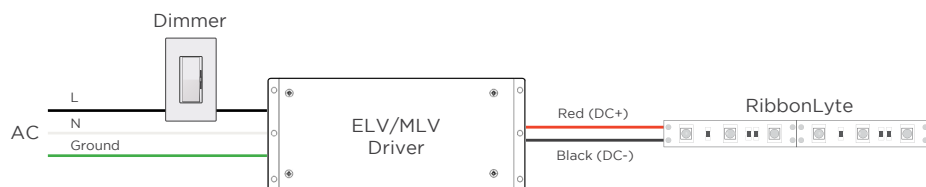
Wattages	30		60		96		150		200		240		300		320	
Wire Gauge	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters
24 AWG	14	4.27	9	2.74	5.5	1.68	3.75	1.14	2.75	0.84	2.25	0.69	1.75	0.53	1.75	0.53
22 AWG	22	6.71	14	4.27	9	2.74	5.75	1.75	4.5	1.37	3.5	1.07	2.75	0.84	2.75	0.84
20 AWG	35	10.67	23	7.01	14	4.27	9	2.74	7	2.13	5.75	1.75	4.5	1.37	4.25	1.30
18 AWG	56	17.07	37	11.28	23	7.01	15	4.57	11	3.35	9	2.74	7.5	2.29	7	2.13
16 AWG	90	27.44	60	18.29	37	11.28	24	7.32	18	5.49	15	4.57	12	3.66	11	3.35
14 AWG	142	43.29	95	28.96	59	17.99	38	11.59	28	8.54	23	7.01	19	5.79	17	5.18
12 AWG	226	68.90	151	46.04	94	28.66	60	18.29	45	13.72	37	11.28	30	9.15	28	8.54
10 AWG	360	109.76	240	73.17	150	45.73	96	29.27	72	21.95	60	18.29	48	14.63	45	13.72
8 AWG	574	175.00	381	116.16	239	72.87	153	46.65	115	35.06	95	28.96	76	23.17	71	21.65

WIRING DIAGRAMS

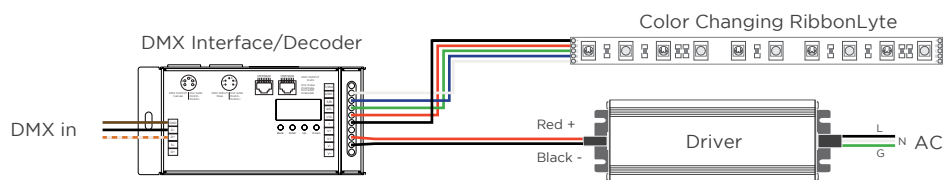
0-10V



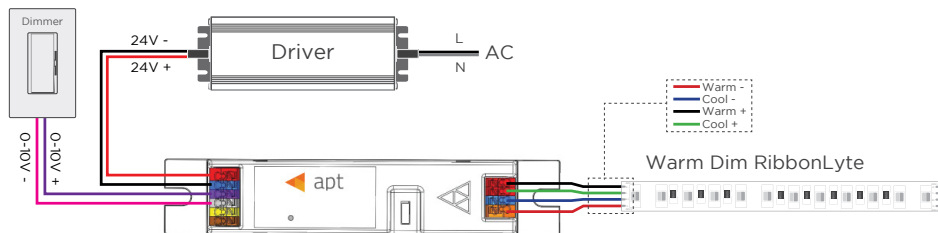
MLV / ELV



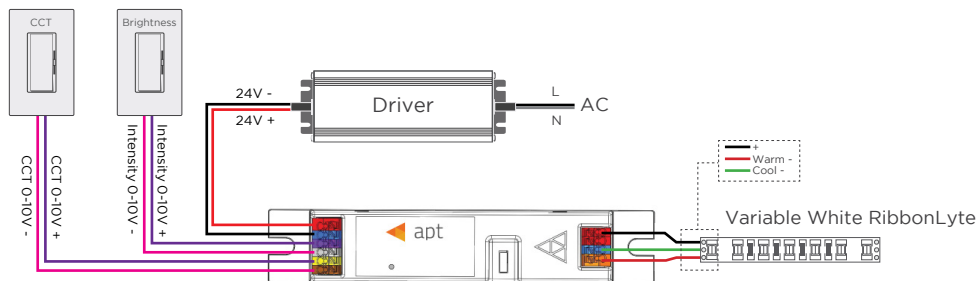
DMX



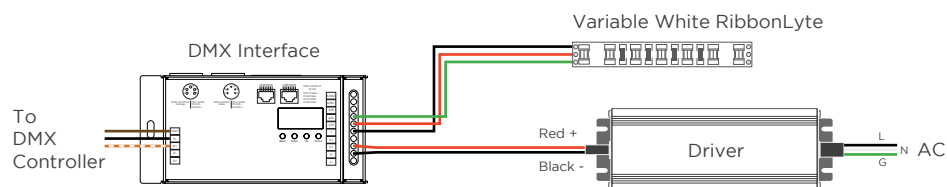
WARM DIM



2-CHANNEL VARIABLE WHITE DIMMING



DMX WIRING DIAGRAM - COMPATIBLE WITH ALL MODELS OF VARIABLE WHITE RIBBONLYTE



WIRE COLORS PER RIBBONLYTE COLOR

STATIC WHITE + STATIC COLOR

Red Wire (+) Positive
Black Wire (-) Negative

RGBW + RGBA

Black Wire (+) Positive
Red Wire (-) goes to Red Channel
Green Wire (-) goes to Green Channel
Blue Wire (-) goes to Blue Channel
White Wire (-) goes to White Channel

WARM DIM

Red Wire (-) goes to Warm White Channel
Blue Wire (-) goes to Cool White Channel
Black Wire (+) goes to Warm White Channel
Green Wire (+) goes to Cool White Channel

VARIABLE WHITE

Black Wire (+) Positive
Red Wire (-) goes to Warm White Channel
Green Wire (-) goes to Cool White Channel