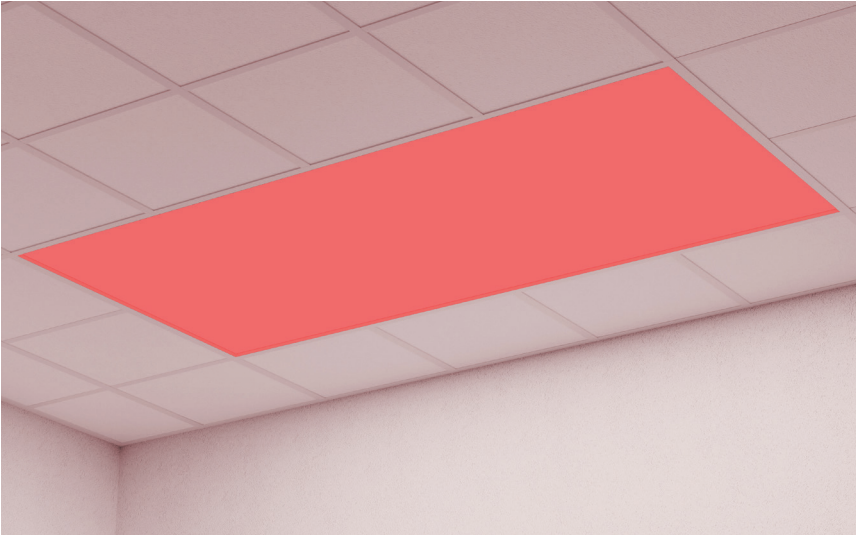




COOLEEDGE LUMINOUS CEILINGS

FABRICOLOR - GRID (T-BAR)

INSTALLATION GUIDE



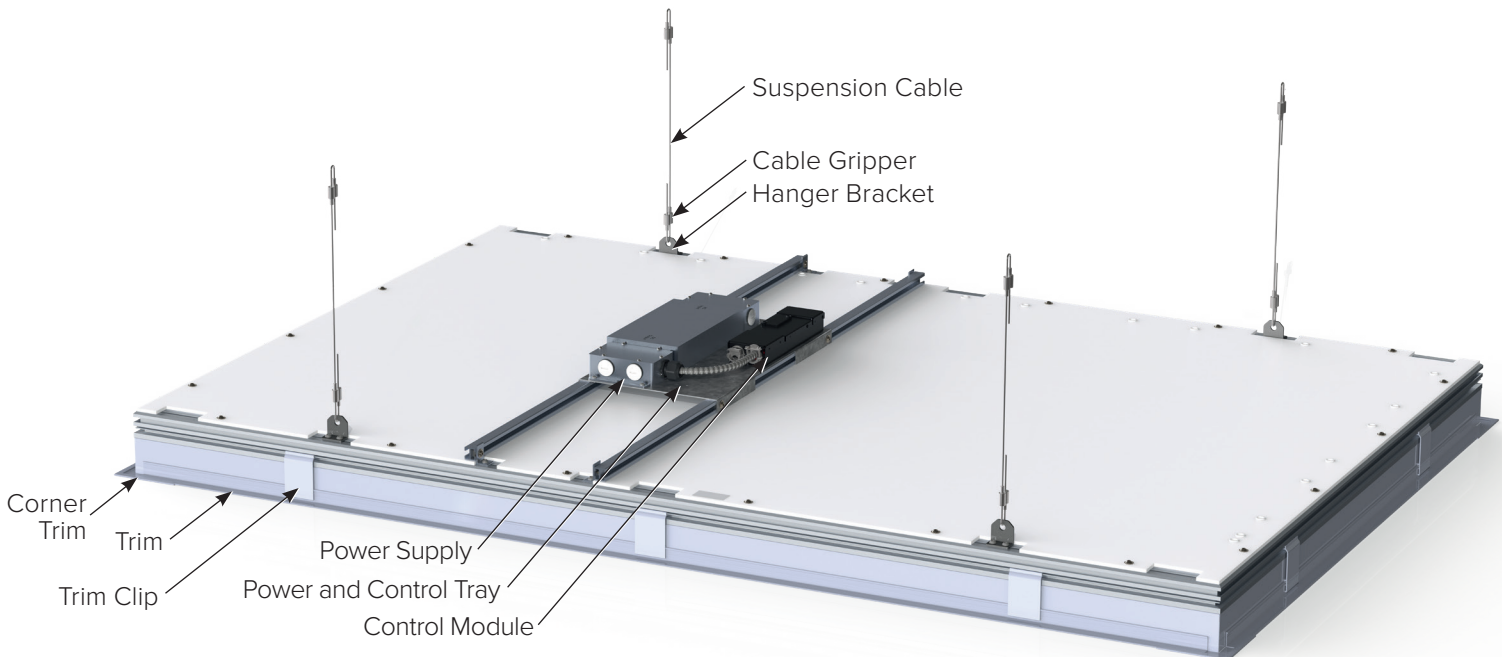
Cooledge **FABRIColor** is a simple, out-of-the-box way to incorporate the unique look and feel of a stretch fabric ceiling into your space. Create a canopy of light in T-bar grid ceilings by adding skylights to provide immersive illumination that delivers the visual, biological, and emotional benefits of large luminous surfaces.

Grid (T-Bar) luminaires deliver immersive illumination for:

- Offices
- Healthcare facilities
- Meeting rooms
- Educational buildings

Features Cooledge's unique "Infinity Edge" design for uniform illumination from edge to edge.

1. COMPONENTS



RoHS

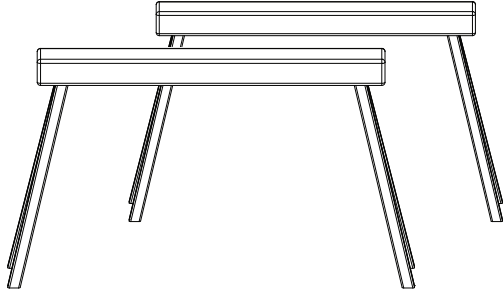


5 Year Limited Warranty:
Parts and workmanship

2. TOOLS

⚠ WARNING: Wear clean cotton or latex gloves when handling Cooledge FABRIColor.
Do not remove the plastic protective film until the point noted in this install guide.

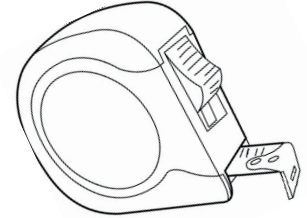
Saw Horses



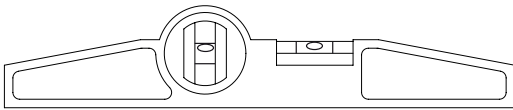
Gloves



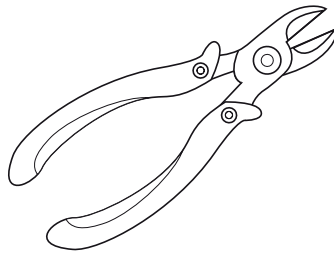
Measuring Tape



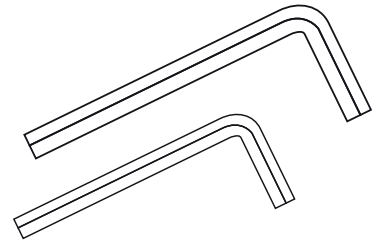
Level



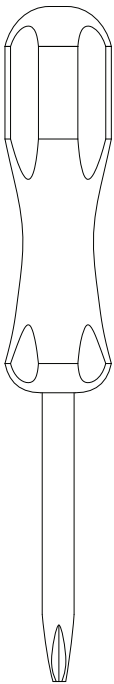
Cable Cutters



4mm and 5mm Hex Key



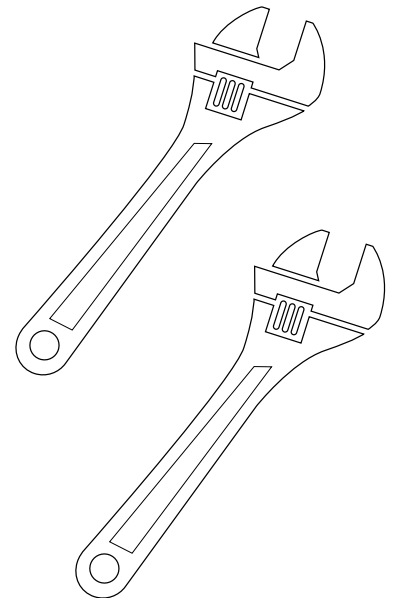
#2 Phillips Screwdriver



3mm Flat Head Screwdriver



2x wrenches (only required for threaded rod mounting)



⚠ CAUTION: Observe precautions for handling electrostatic sensitive devices.

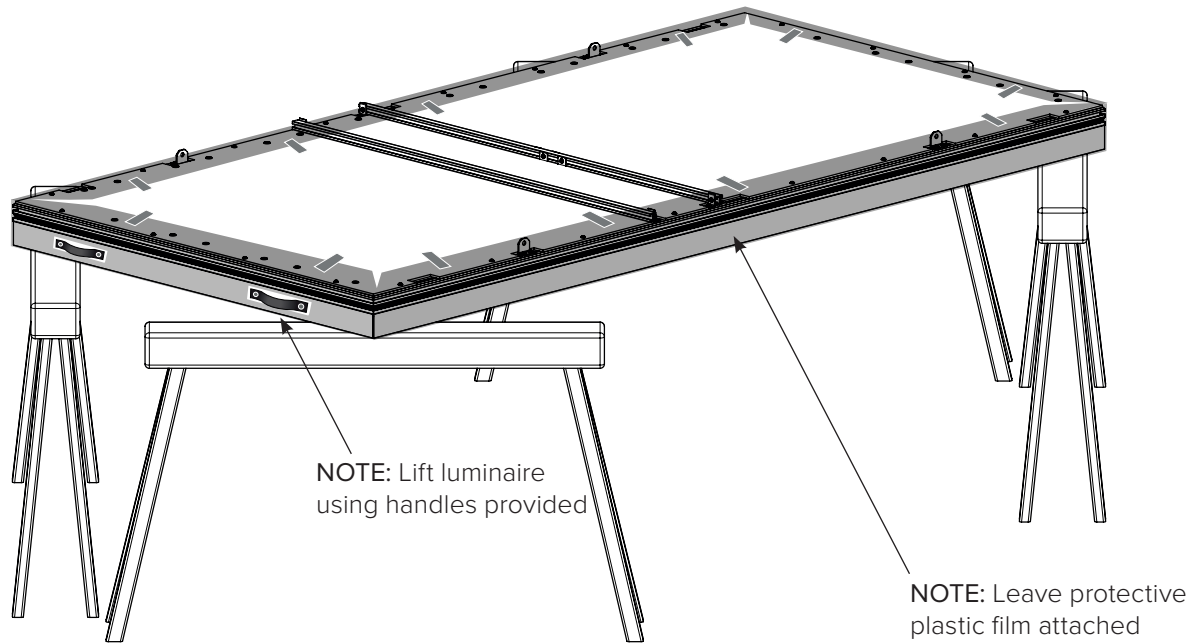
⚠ CAUTION: Use appropriate Personal Protective Equipment (PPE) to ensure safety at work.

3. INSTALLATION PROCEDURE

3.1. REMOVE THE CEILING TILES AND ANY CROSS TEES TO GIVE CORRECT CEILING OPENING

WARNING: Do not cut or remove any main beam tees. If this is required to make the correct opening size for the luminaire, consult a ceiling contractor.

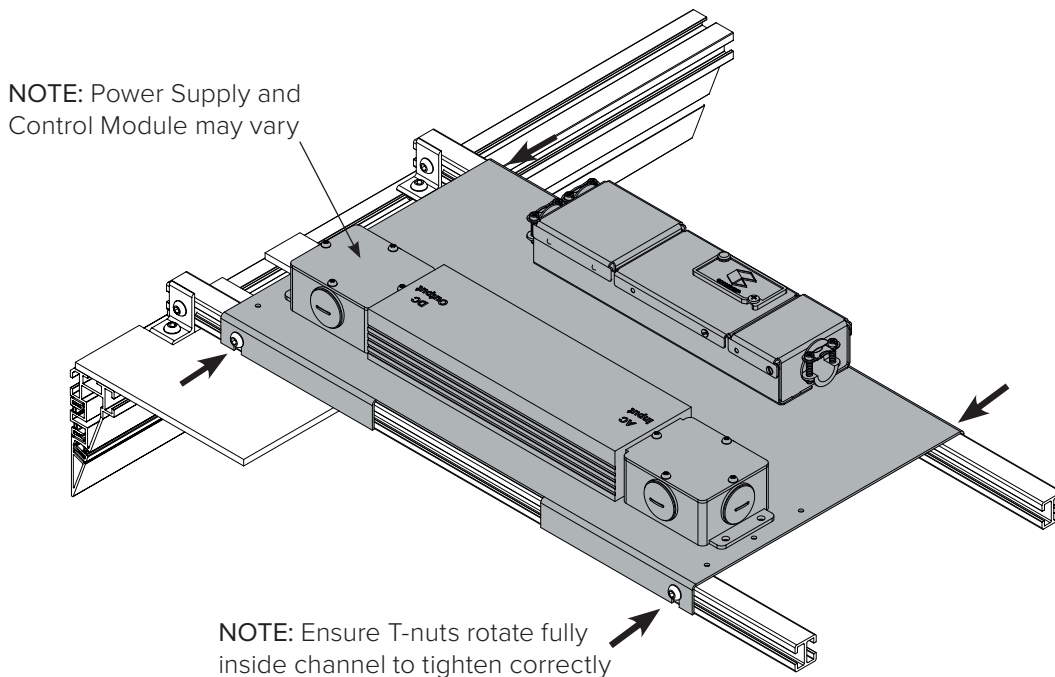
3.2. UNPACK LUMINAIRE AND PLACE FACE DOWN ON SAW HORSES AT CORNERS



3.3. ATTACH POWER AND CONTROL TRAY(S) TO STIFFENERS

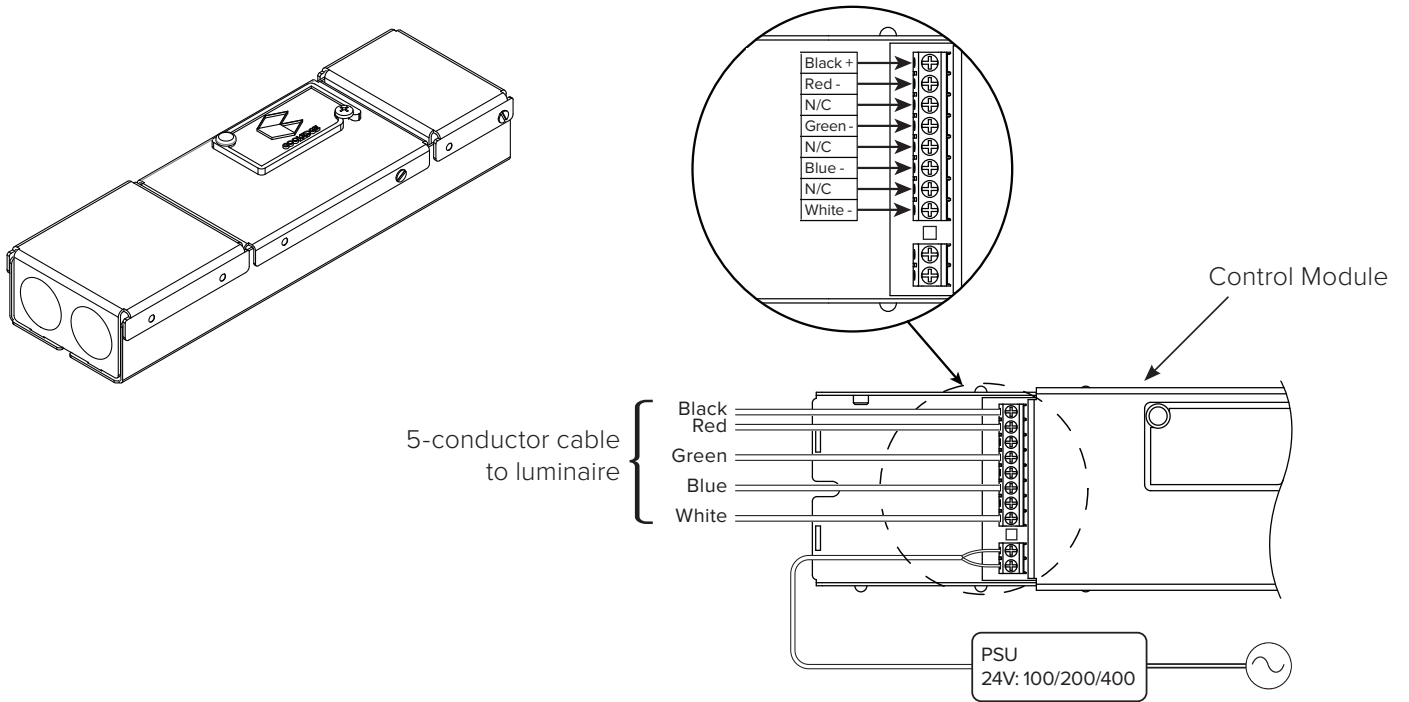
NOTE: Trays may be mounted remotely. In this case, the DC power connections should be made to the Luminaire (section 3.4) with a suitable length of cable.

Refer to Section 8. APPENDIX – DMX CONTROL for setting up the control module.



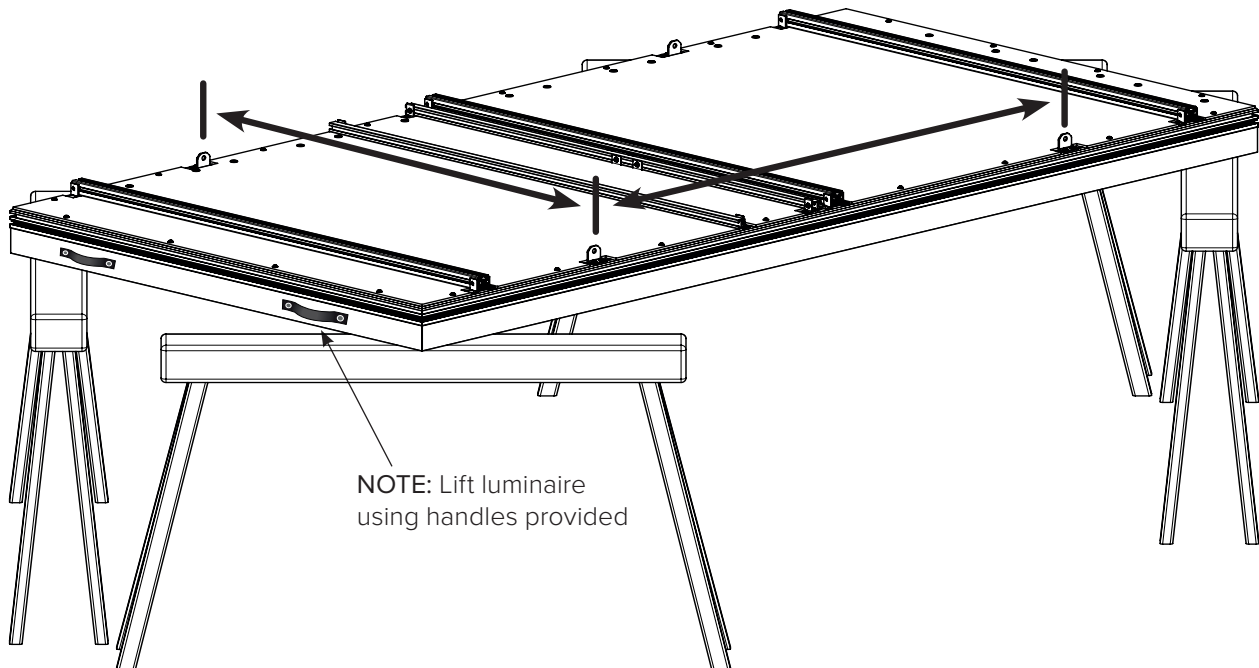
3.4. CONNECT POWER AND CONTROL TRAY TO LUMINAIRE

NOTE: The power and control tray type will vary depending on region and luminaire size.

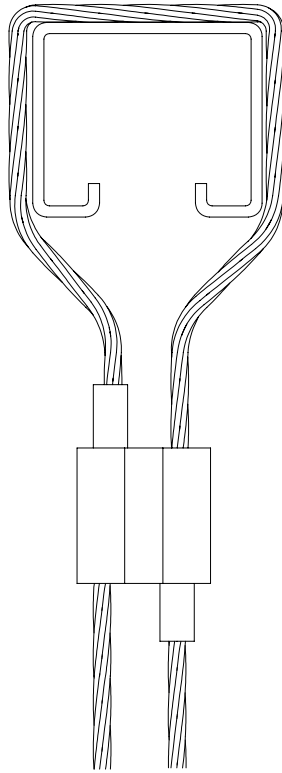


3.5. ESTABLISH THE REQUIRED POSITIONS FOR SUSPENSION CABLES

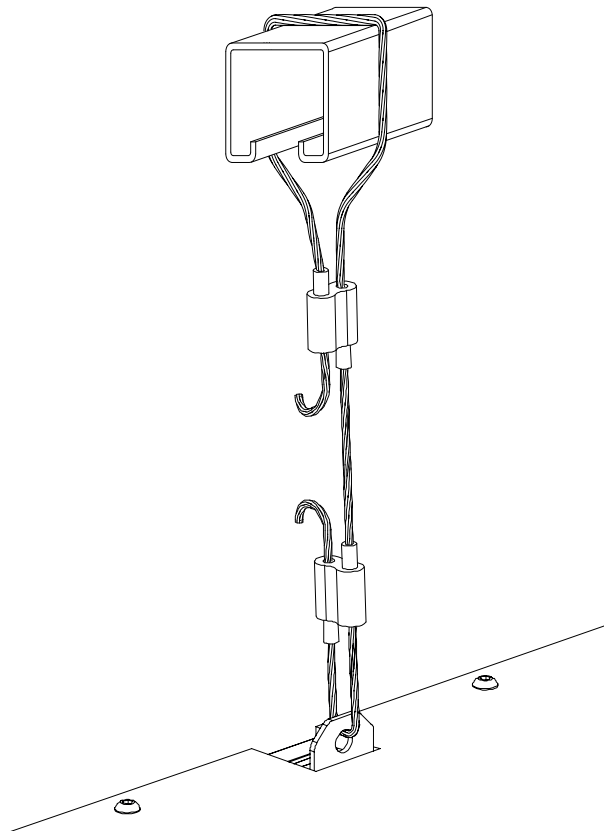
Either measure between the suspension points or refer to TABLE 1, PAGE 10.



3.6. ATTACH CABLES TO CEILING ANCHOR POINTS AT REQUIRED POSITIONS

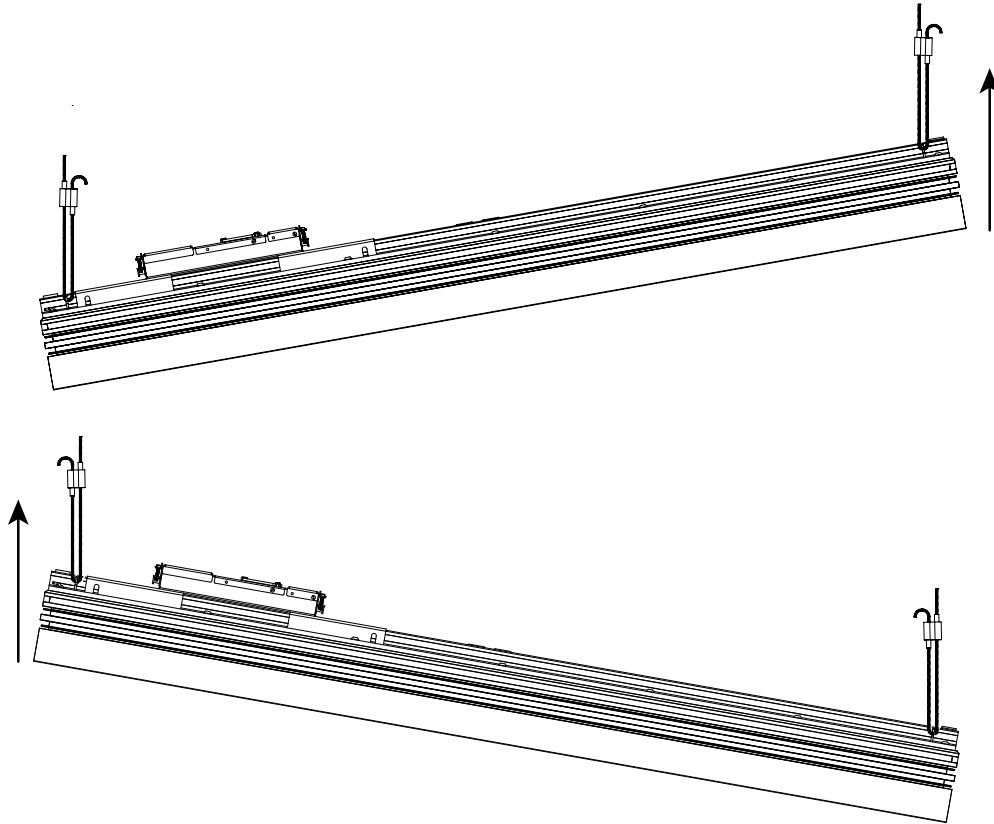


3.7. ATTACH CABLES TO HANGER BRACKETS WITH GRIPPERS



3.8. RAISE LUMINAIRE TO JUST BELOW CEILING LEVEL

Leave space for electrician to make connection to power supply.



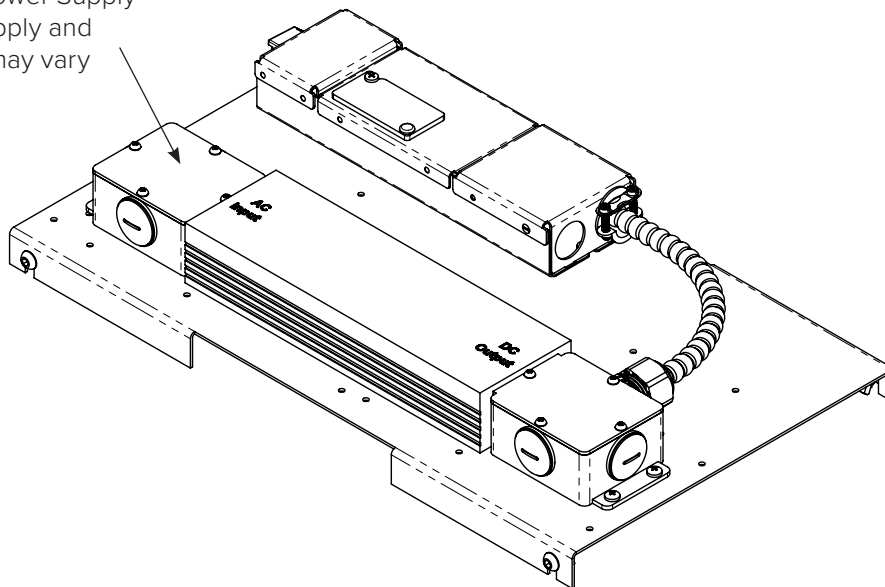
3.9. CONNECT THE ELECTRICAL POWER

The electrical power connections should be made by a qualified electrician in accordance with all national and local electrical and construction codes.

Refer to Section 8. APPENDIX – DMX CONTROL for setting up the control module.

Connect AC to Power Supply

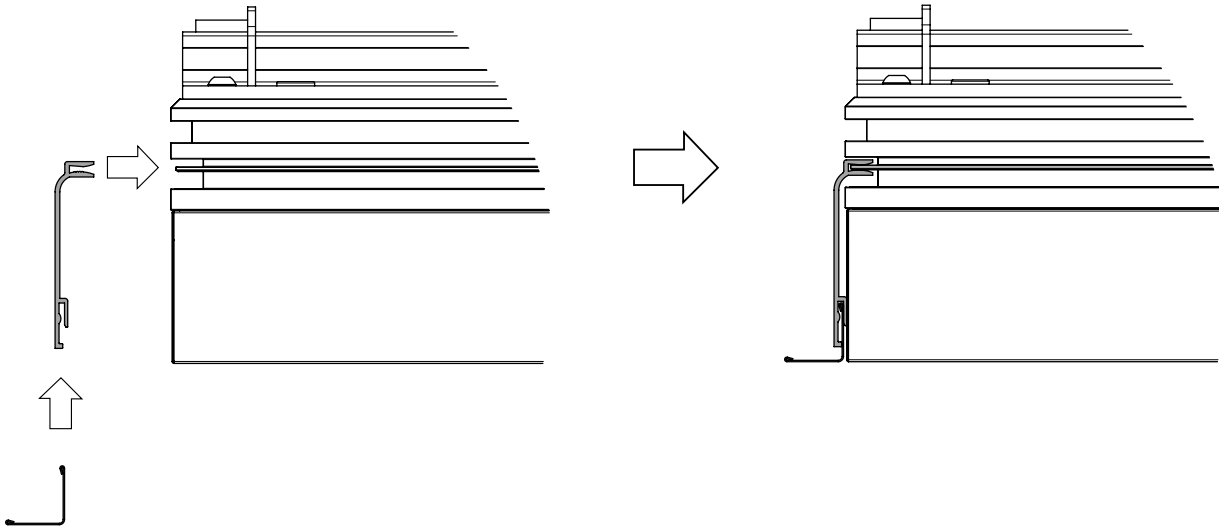
NOTE: Power Supply and Control Module may vary



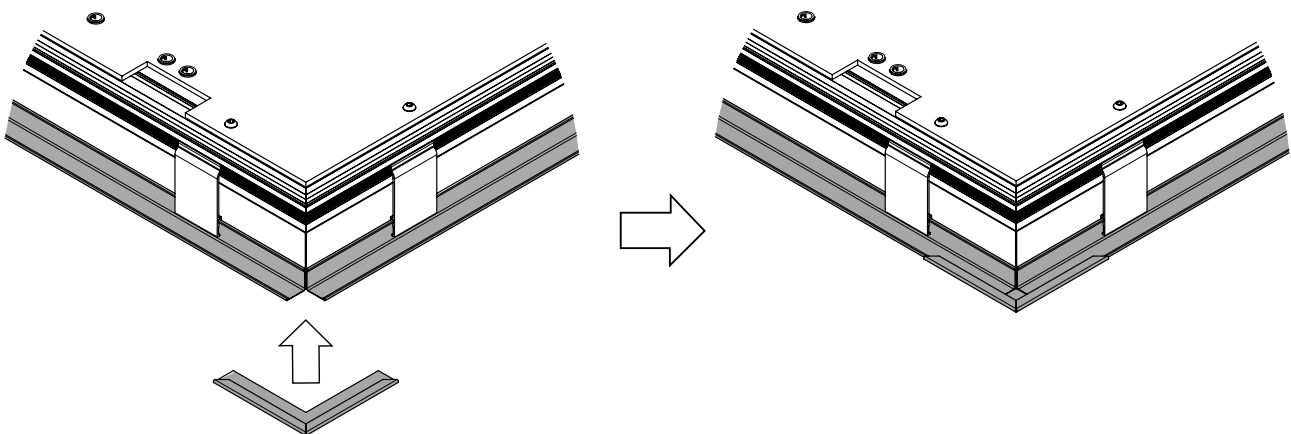
3.10. REMOVE THE PROTECTIVE PLASTIC WRAPPING AND LIFTING HANDLES

Remove the lifting handles using a 4mm Hex Key.
Ensure you wear gloves from this point forward to prevent marks on the fabric.

3.11. ATTACH TRIM WITH PROVIDED CLIPS



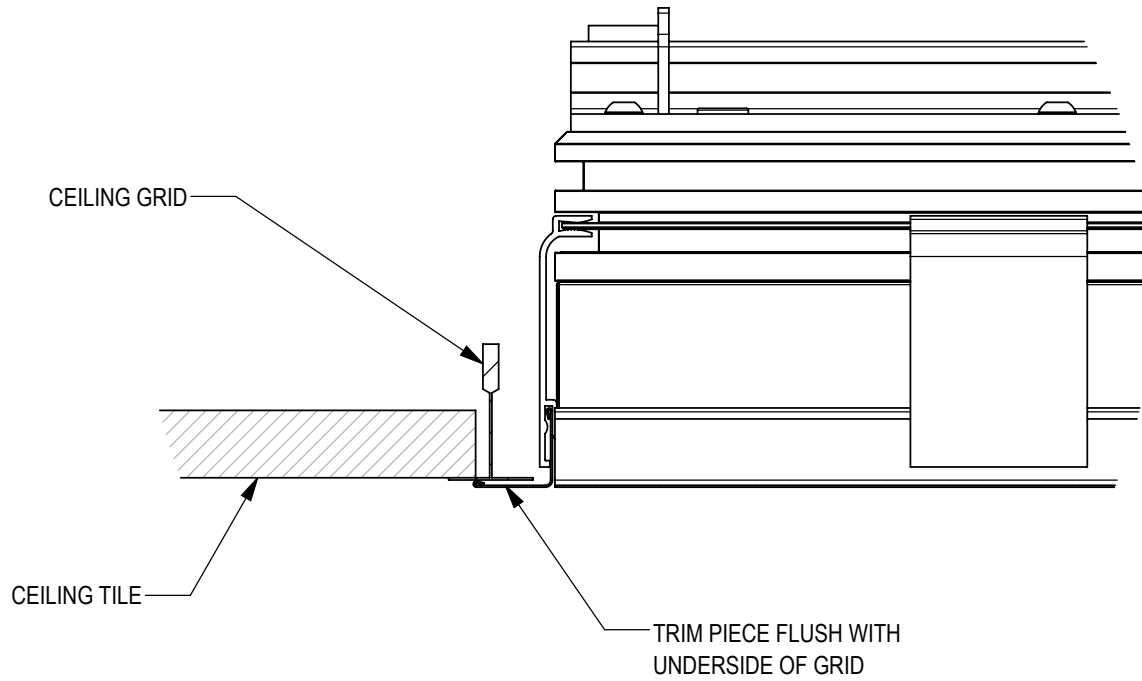
3.12. ATTACH CORNER COVER TO TRIM



3.13. LIFT LUMINAIRE INTO FINAL POSITION

Access the cable grippers through adjacent ceiling grid opening and lift the luminaire until the trim is flush with the underside of the ceiling grid.

WARNING: Overtightening the cables may lift the ceiling grid and cause damage to the luminaire.



4. HANDLING & MAINTENANCE

In general, Cooledge FABRIColor require little or no maintenance; however, if there is a need to handle or clean the luminaires, Cooledge recommends the following procedures.

Handling:

- Always handle the luminaire from the sides and avoid touching the diffuser to prevent fingerprints, oil, or dirt from marking the fabric.
- Always use cloth gloves if handling the fabric diffuser.

Cleaning:

Fabric Diffuser

Over time there may be some accumulation of dust from the environment. To remove dust there are several methods available including:

- Brush gently with a clean, micro fiber cloth or “magic eraser” (if available in your region)
- Vacuum with a clean brush-tip vacuum nozzle
- Blow with compressed air (ensure there is no oil or grease)
- Use an adhesive lint-roller (recommended to test a small area in case the specific type of roller leaves a residue)

For minor stains, spots or streaks, Cooledge recommends gently wiping the fabric with isopropyl alcohol, “IPA”, (99% or higher) applied to a clean, soft cloth and allow to dry.

Note: use of liquids other than IPA to clean the fabric diffuser may result in permanent stains. FABRICated Luminaires are rated for dry locations only and should not be exposed to moisture or direct contact with water.

Trim/Fascia

- Wipe trim with a clean, soft cloth

5. APPENDIX – POSITIONS OF SUSPENSION POINTS

5.1. CABLE ATTACHMENT POINTS

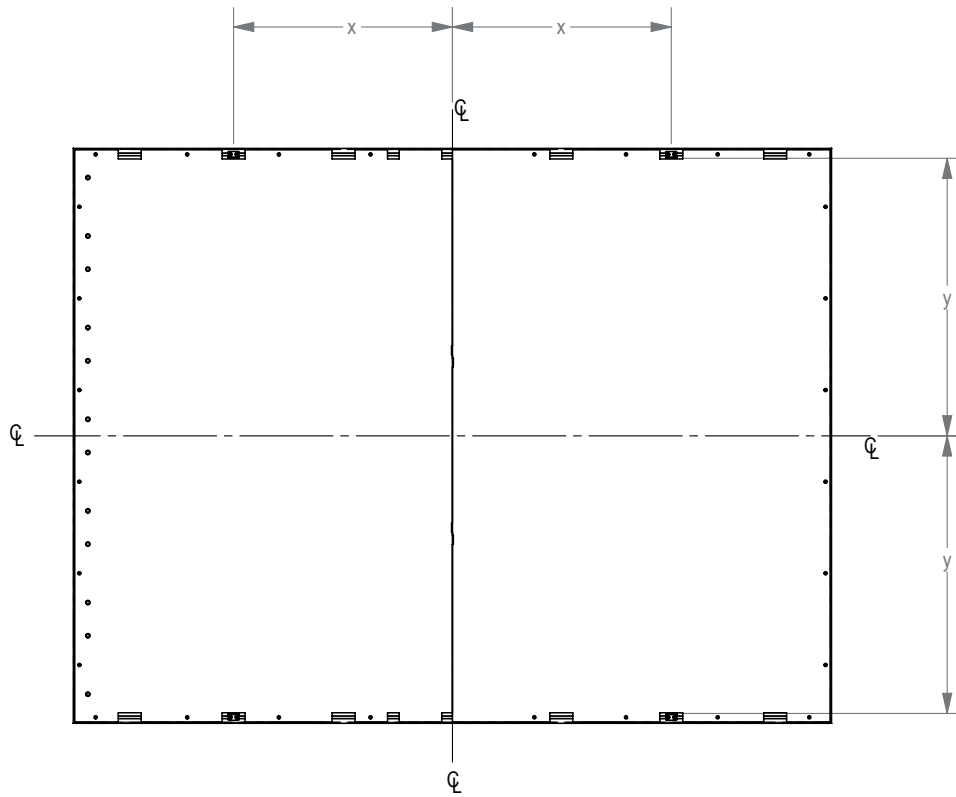
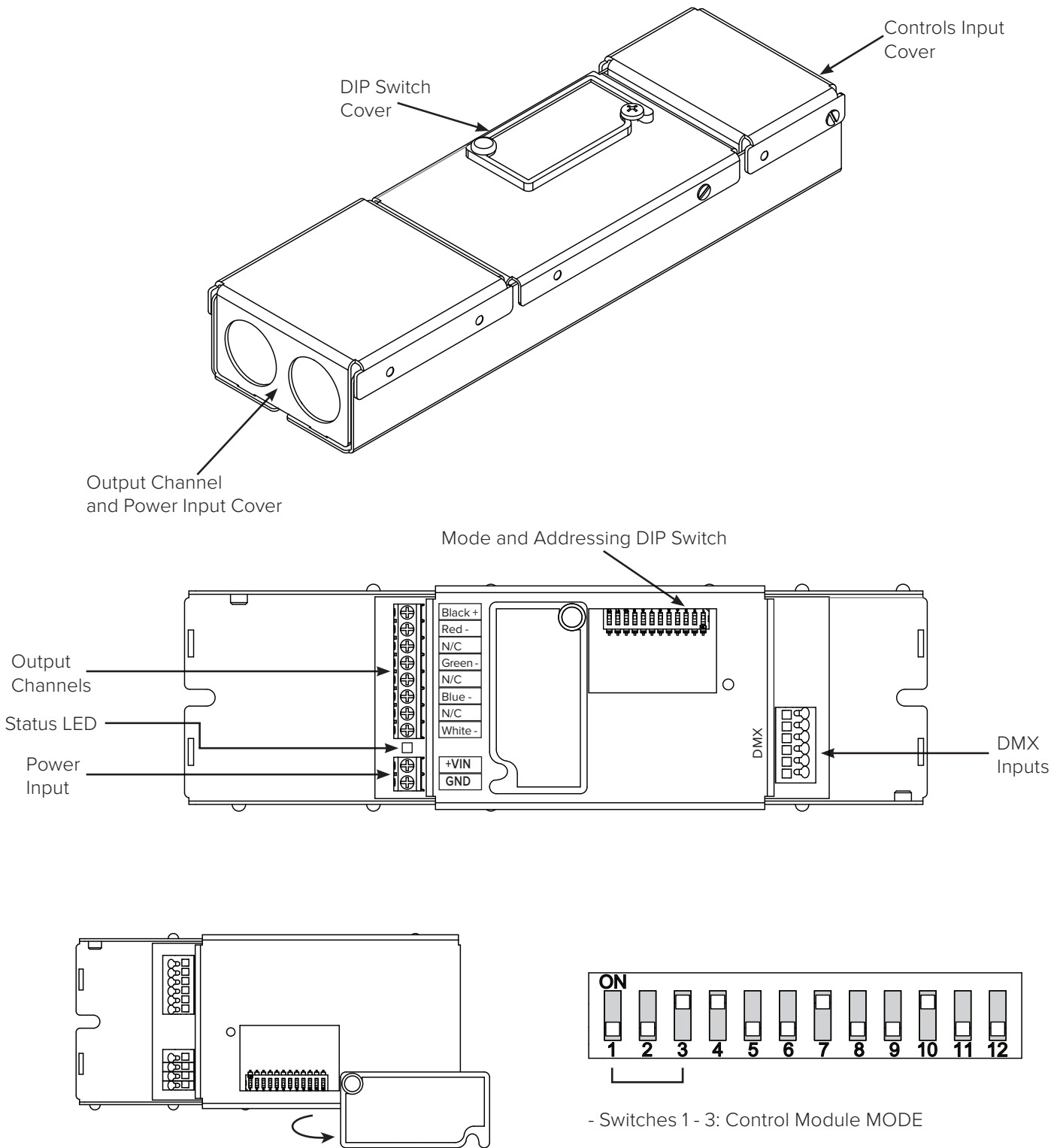


TABLE 1

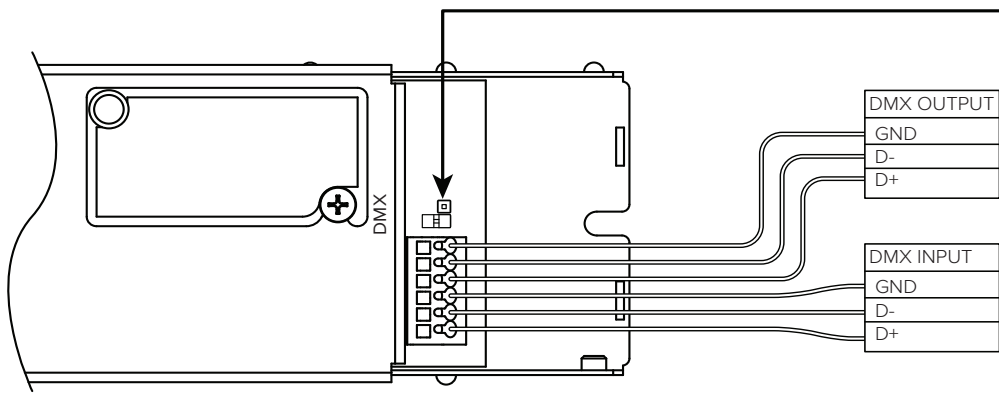
| NOMINAL SIZE | # SUSPENSION POINTS | DIM "X" | DIM "Y" |
|-----------------|---------------------|---------|---------|
| 4' X 4' | 4 | 20 5/8" | 22 1/8" |
| 4' X 6' | 4 | 21 5/8" | 22 1/8" |
| 4' X 8' | 4 | 26 5/8" | 22 1/8" |
| 1200mm X 1200mm | 4 | 525mm | 550mm |
| 1200mm X 1800mm | 4 | 550mm | 550mm |
| 1200mm X 2400mm | 4 | 655mm | 550mm |

8. APPENDIX - DMX CONTROL

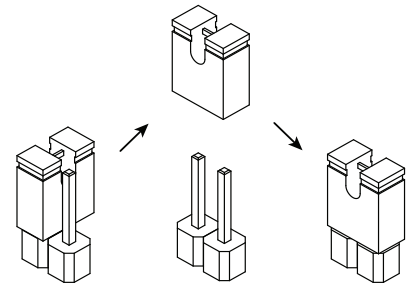
Control Module overview



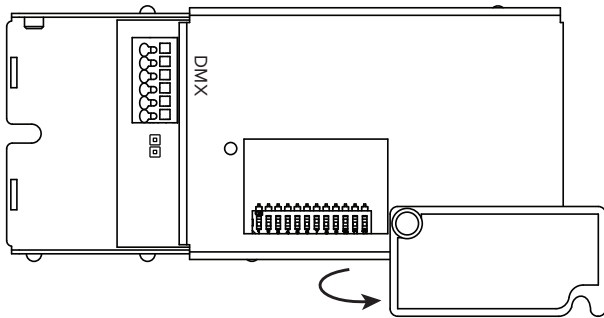
To access the DIP switches for selecting the operational mode, unfasten the cover screw and rotate cover out of the way. Positions 1-3 are used to identify the controller mode. Settings for each mode are explained in each section.



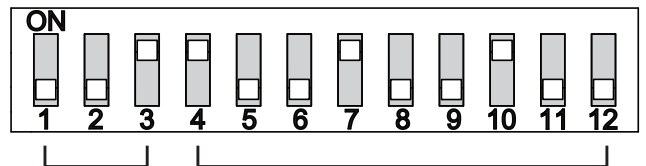
When installing the final controller (termination point) in a DMX network use the provided jumper on the indicated header.



SELECTING DMX ADDRESSES



1 = On , 0 = Off



- Switches 1 - 3: Factory set, refer to modes below for details.
- Switches 4 - 12: Addressing switches.

- To access the dip switch for selecting addresses for DMX controls, unfasten the cover screw and rotate cover out of the way.

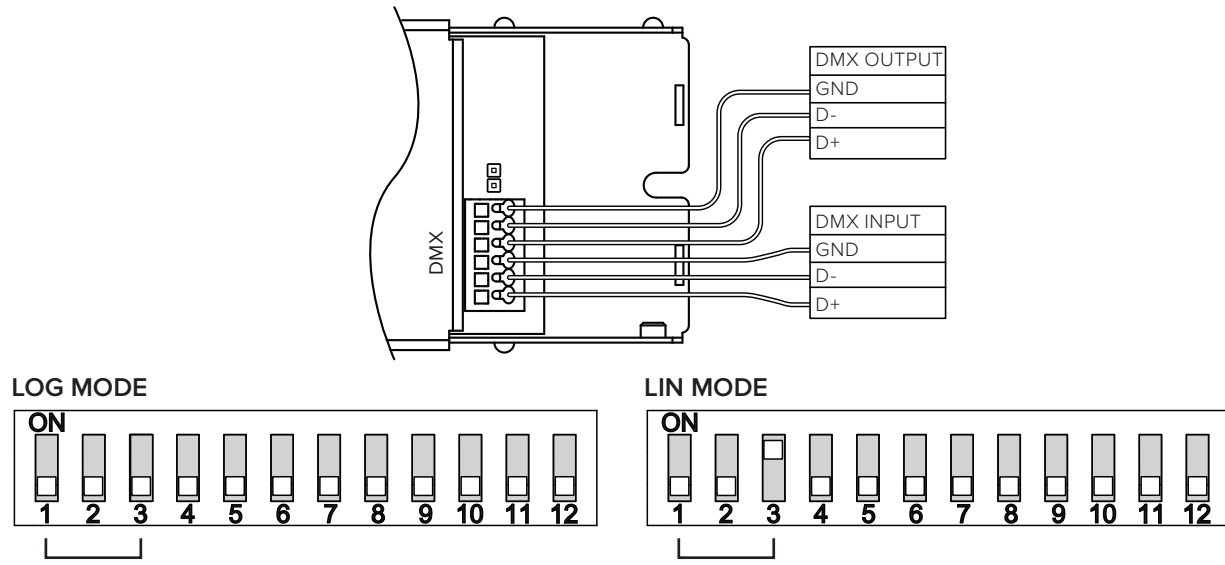
DMX Controllers are factory set to address 1

- Each of the 9 switches (4-12) represents a bit in binary representation for the address. For example, when switch 12 is 'ON' only address 1 is selected, if switch 12 & 11 are 'ON' then address 3 is selected. The address is selected by the sum of the values of each 'ON' switch. Addresses 1 through 511 are possible

| Switch: | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|----------|-----|-----|----|----|----|---|----|----|----|
| Address: | 256 | 128 | 64 | 32 | 16 | 8 | 4 | 2 | 1 |

STANDARD MODE

In standard mode there are Red, Green, Blue, and White channels. Each can handle up to a 90W load.



- Switches 1 - 3: Control Module MODE

Table 1:

| STANDARD MODES 8bits/16bits | MODE (Pos 1-3) | Switches 4-12 | DESCRIPTION |
|-----------------------------|----------------|---------------|----------------------|
| DMX Standard LOG 16 bits | 0-0-0 | Addressing | Standard LOG 16 bits |
| DMX Standard LIN 16 bits | 0-0-1 | Addressing | Standard LIN 16 bits |
| DMX Standard LOG 8 bits | 0-1-0 | Addressing | Standard LOG 8 bits |
| DMX Standard LIN 8 bits | 0-1-1 | Addressing | Standard LIN 8 bits |

Warning! Unit must be powered off when changing DIP switch settings

For STANDARD -16bit Modes- LOG or LIN- each Output Channel uses 2 x DMX Channels:

1 for DIM Coarse

1 for DIM Fine

In total, each controller occupies 8 x DMX channels, assigned as below:

- DMX CH1 – DIM Coarse RED Channel
- DMX CH2 – DIM Fine RED Channel
- DMX CH3 – DIM Coarse GREEN Channel
- DMX CH4 – DIM Fine GREEN Channel
- DMX CH5 – DIM Coarse BLUE Channel
- DMX CH6 – DIM Fine BLUE Channel
- DMX CH7 – DIM Coarse WHITE Channel
- DMX CH8 – DIM Fine WHITE Channel

Example of addressing units for 16-bit LIN/LOG Modes on DMX bus:

1. Unit 1 takes DMX Address = 1, and unit occupies DMX Channels # 1-8
2. Unit 2 takes DMX Address = 9, and unit occupies DMX Channels # 9-16
3. Unit 3 takes DMX Address = 17, and unit occupies DMX Channels # 17-24

For the above the DIP SETTINGS are:

1. 000 000000001 Controller set for 16-bit LIN/LOG Mode, unit occupies DMX Channels 1-8
2. 000 000001001 Controller set for 16-bit LIN/LOG Mode, unit occupies DMX Channels 9-16
3. 000 000010001 Controller set for 16-bit LIN/LOG Mode, unit occupies DMX Channels 17-24

For STANDARD -8bit LIN/LOG Modes - each Output Channel uses 1x DMX Channel:

In total, each controller occupies 4 x DMX channels, assigned as below:

DMX CH1 – DIM RED Channel

DMX CH2 – DIM GREEN Channel

DMX CH3 – DIM BLUE Channel

DMX CH4 – DIM WHITE Channel

Example of addressing units for 8-bit LIN/LOG Modes on DMX bus:

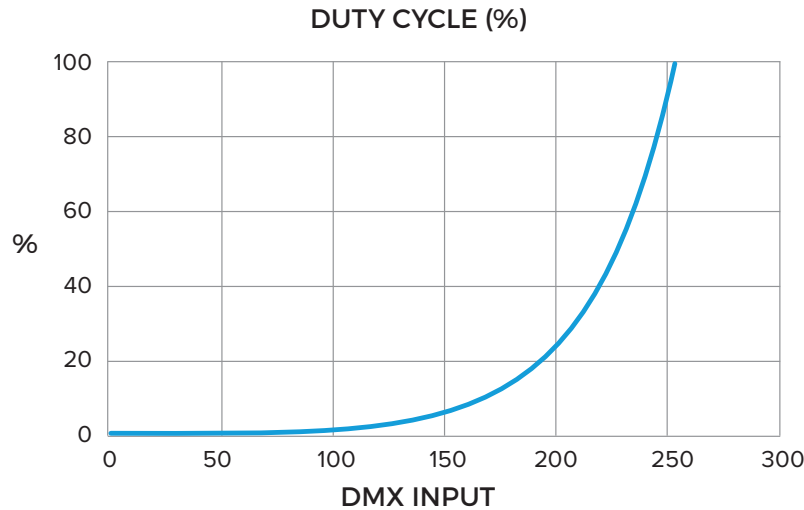
1. Unit 1 takes DMX Address = 1 and unit occupies DMX Channels # 1-4
2. Unit 2 takes DMX Address = 5 and unit occupies DMX Channels # 5-8
3. Unit 3 takes DMX Address = 9 and unit occupies DMX Channels # 9-12

For the above the DIP SETTINGS are:

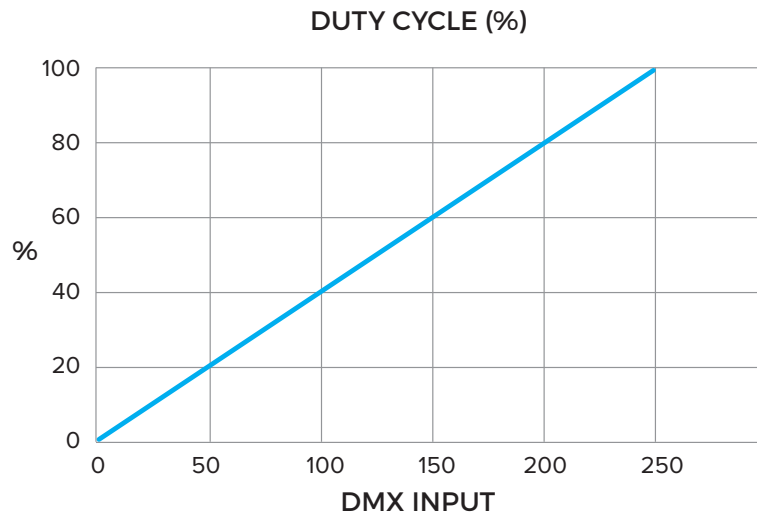
1. 000 000000001 Controller set for 8-bit LIN/LOG Mode, unit occupies DMX Channels 1-4
2. 000 000000101 Controller set for 8-bit LIN/LOG Mode, unit occupies DMX Channels 5-8
3. 000 000001001 Controller set for 8-bit LIN/LOG Mode, unit occupies DMX Channels 9-12

For 16-bit Standard Modes the dimming curves are shown below:

16-bit LOG DIMMING CURVE

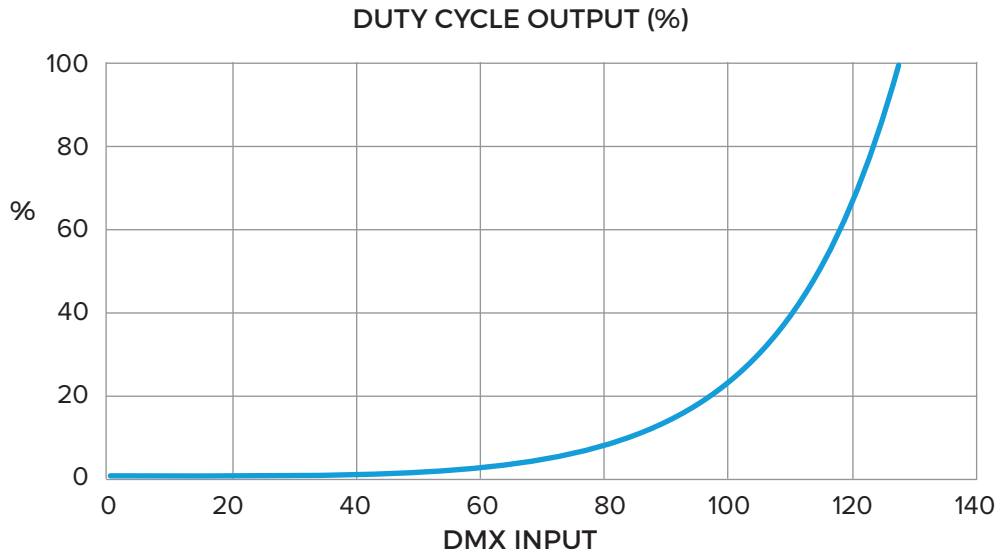


16-bit LINEAR DIMMING CURVE

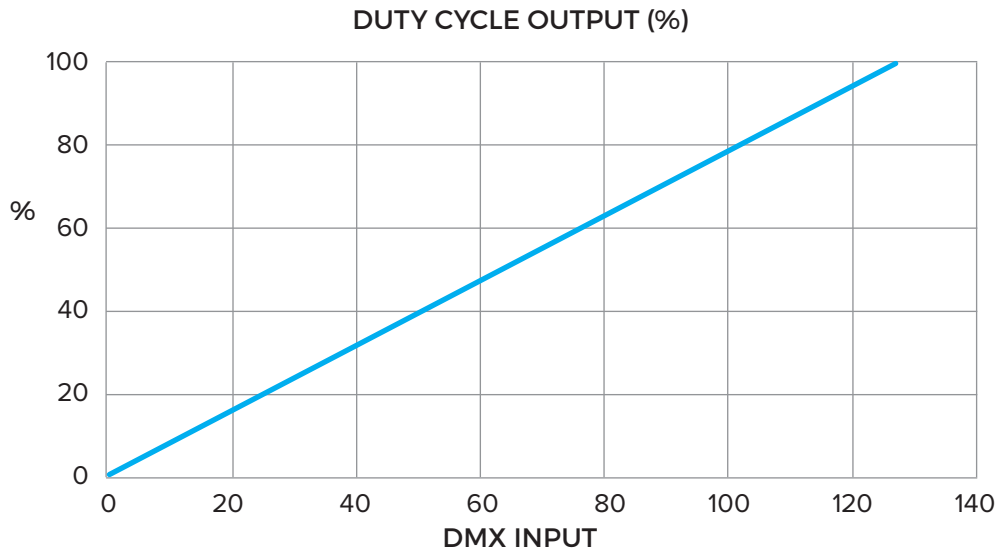


For 8-bit Standard Modes the dimming curves are shown below:

8-bit LOG DIMMING CURVE



8-bit LIN DIMMING CURVE



STANDALONE MODE

Standalone mode gives a pre-defined user-selectable fixed color output. No external control input is required. When one of the operational modes (Standalone Fixed or Standalone Dynamic) is selected through the DIP Switch setting, the module will ignore DMX commands and operate according to the settings, as per table below.

Standalone Fixed Modes selection include:

- 8 x Fixed R, G, B, W colors
- 26 predefined mixed colors
- 6 x CCT white combinations

Standalone Fixed Modes

| STANDALONE FIXED RGBW 8bits/16bits | MODE (Pos 1-3) | Switches 4-12 | DESCRIPTION |
|-------------------------------------|----------------|-----------------|---|
| FIXED RED LOG | 1-0-0 | X-X-X-X-X-X-0-0 | RED channel fixed LOG for 16bit/8bit |
| FIXED RED LIN | 1-0-0 | X-X-X-X-X-X-0-1 | RED channel fixed LIN for 16bit/8bit |
| FIXED GREEN LOG | 1-0-0 | X-X-X-X-X-X-1-0 | GREEN channel fixed LOG for 16bit/8bit |
| FIXED GREEN LIN | 1-0-0 | X-X-X-X-X-X-1-1 | GREEN channel fixed LIN for 16bit/8bit |
| FIXED BLUE LOG | 1-0-1 | X-X-X-X-X-X-0-0 | BLUE channel fixed LOG for 16bit/8bit |
| FIXED BLUE LIN | 1-0-1 | X-X-X-X-X-X-0-1 | BLUE channel fixed LIN for 16bit/8bit |
| FIXED WHITE LOG | 1-0-1 | X-X-X-X-X-X-1-0 | WHITE channel fixed LOG for 16bit/8bit |
| FIXED WHITE LIN | 1-0-1 | X-X-X-X-X-X-1-1 | WHITE channel fixed LIN for 16bit/8bit |
| FIXED 32 Colors with 16 intensities | 110 | X-X-X-X-X-X-X-X | 32 Colors*** = X-X-X-X and 16 intensities = X-X-X-X |

***DIP switch positions 4-7 are used to select 16 intensities for each of 32 fixed colors as shown in Table below:

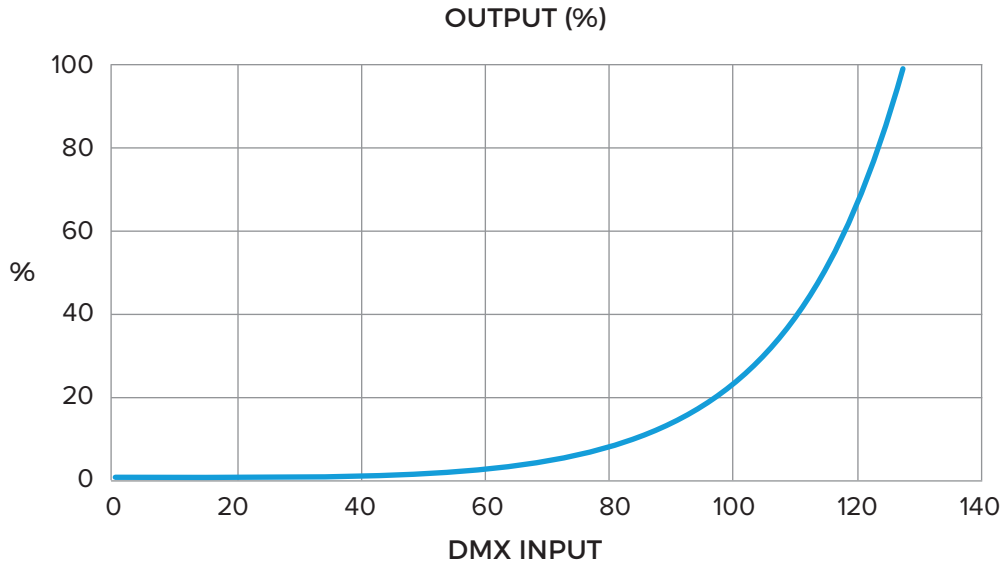
| INTENSITY LEVEL | DIP SETTING POS 4-7 | OUTPUT % |
|-----------------|---------------------|----------|
| 1 | 0-0-0-0 | 1 |
| 2 | 0-0-0-1 | 5 |
| 3 | 0-0-1-0 | 10 |
| 4 | 0-0-1-1 | 15 |
| 5 | 0-1-0-0 | 20 |
| 6 | 0-1-0-1 | 25 |
| 7 | 0-1-1-0 | 30 |
| 8 | 0-1-1-1 | 35 |
| 9 | 1-0-0-0 | 40 |
| 10 | 1-0-0-1 | 45 |
| 11 | 1-0-1-0 | 50 |
| 12 | 1-0-1-1 | 60 |
| 13 | 1-1-0-0 | 70 |
| 14 | 1-1-0-1 | 80 |
| 15 | 1-1-1-0 | 90 |
| 16 | 1-1-1-1 | 100 |

DIP switch positions 8-12 are used to select 32 colors as shown in Table below:

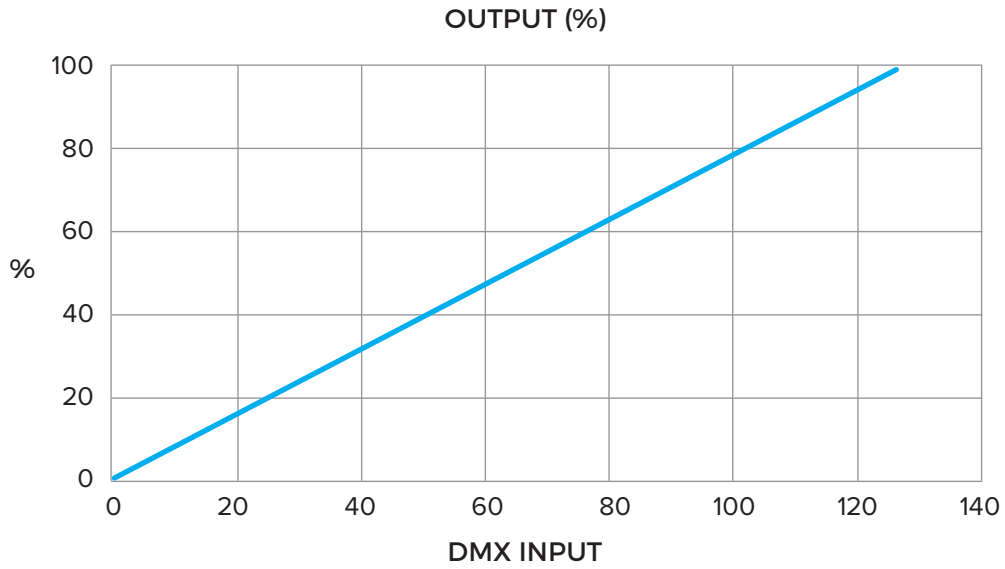
| COLOR NUMBER | COLOR | DIP SETTING POS 8-12 |
|--------------|-------------------|----------------------|
| 1 | PINK | 0-0-0-0-0 |
| 2 | LIGHT PINK | 0-0-0-0-1 |
| 3 | VIOLET | 0-0-0-1-0 |
| 4 | FUCSHIA (MAGENTA) | 0-0-0-1-1 |
| 5 | PLUM | 0-0-1-0-0 |
| 6 | ORCHID | 0-0-1-0-1 |
| 7 | ORANGE | 0-0-1-1-0 |
| 8 | SALMON | 0-0-1-1-1 |
| 9 | CORAL | 0-1-0-0-0 |
| 10 | LIGHT CORAL | 0-1-0-0-1 |
| 11 | YELLOW | 0-1-0-1-0 |
| 12 | LIGHT VIOLET | 0-1-0-1-1 |
| 13 | OLIVE | 0-1-1-0-0 |
| 14 | AQUAMARINE | 0-1-1-0-1 |
| 15 | SPRING GREEN | 0-1-1-1-0 |
| 16 | LIGHT SEA GREEN | 0-1-1-1-1 |
| 17 | LIME GREEN | 1-0-0-0-0 |
| 18 | PALE GREEN | 1-0-0-0-1 |
| 19 | TURQUOISE | 1-0-0-1-0 |
| 20 | ROYAL BLUE | 1-0-0-1-1 |
| 21 | SKY BLUE | 1-0-1-0-0 |
| 22 | CYAN | 1-0-1-0-1 |
| 23 | POWDER BLUE | 1-0-1-1-0 |
| 24 | SLATE BLUE | 1-0-1-1-1 |
| 25 | LAVENDER | 1-1-0-0-0 |
| 26 | AZURE | 1-1-0-0-1 |
| 27 | 2700K | 1-1-0-1-0 |
| 28 | 3000K | 1-1-0-1-1 |
| 29 | 3500K | 1-1-1-0-0 |
| 30 | 4000K | 1-1-1-0-1 |
| 31 | 5000K | 1-1-1-1-0 |
| 32 | 5700K | 1-1-1-1-1 |

For Standalone RED, GREEN, BLUE or WHITE Fixed Modes the dimming curves are shown below:

STANDALONE FIXED RGBW LOG DIM CURVE



STANDALONE FIXED RGBW LIN DIM CURVE



LOG DIP SETTINGS/DIMMING LEVELS FOR FIXED RGBW

| LEVEL | DIPSW SETTING | OUTPUT (%) | LEVEL | DIPSW SETTING | OUTPUT (%) | LEVEL | DIPSW SETTING | OUTPUT (%) |
|-------|---------------|------------|-------|---------------|------------|-------|---------------|------------|
| 1 | 0000000 | 0.05 | 44 | 0101011 | 1.4 | 87 | 1010110 | 11.36 |
| 2 | 0000001 | 0.21 | 45 | 0101100 | 1.45 | 88 | 1010111 | 12 |
| 3 | 0000010 | 0.24 | 46 | 0101101 | 1.51 | 89 | 1011000 | 12.65 |
| 4 | 0000011 | 0.24 | 47 | 0101110 | 1.59 | 90 | 1011001 | 13.35 |
| 5 | 0000100 | 0.27 | 48 | 0101111 | 1.66 | 91 | 1011010 | 14.07 |
| 6 | 0000101 | 0.27 | 49 | 0110000 | 1.74 | 92 | 1011011 | 14.85 |
| 7 | 0000110 | 0.29 | 50 | 0110001 | 1.8 | 93 | 1011100 | 15.65 |
| 8 | 0000111 | 0.32 | 51 | 0110010 | 1.89 | 94 | 1011101 | 16.52 |
| 9 | 0001000 | 0.32 | 52 | 0110011 | 1.98 | 95 | 1011110 | 17.43 |
| 10 | 0001001 | 0.35 | 53 | 0110100 | 2.07 | 96 | 1011111 | 18.4 |
| 11 | 0001010 | 0.37 | 54 | 0110101 | 2.17 | 97 | 1100000 | 19.4 |
| 12 | 0001011 | 0.4 | 55 | 0110110 | 2.25 | 98 | 1100001 | 20.46 |
| 13 | 0001100 | 0.4 | 56 | 0110111 | 2.37 | 99 | 1100010 | 21.6 |
| 14 | 0001101 | 0.43 | 57 | 0111000 | 2.47 | 100 | 1100011 | 22.8 |
| 15 | 0001110 | 0.46 | 58 | 0111001 | 2.61 | 101 | 1100100 | 24.06 |
| 16 | 0001111 | 0.49 | 59 | 0111010 | 2.73 | 102 | 1100101 | 25.38 |
| 17 | 0010000 | 0.51 | 60 | 0111011 | 2.87 | 103 | 1100110 | 26.8 |
| 18 | 0010001 | 0.54 | 61 | 0111100 | 3.01 | 104 | 1100111 | 28.3 |
| 19 | 0010010 | 0.57 | 62 | 0111101 | 3.16 | 105 | 1101000 | 29.85 |
| 20 | 0010011 | 0.58 | 63 | 0111110 | 3.32 | 106 | 1101001 | 31.51 |
| 21 | 0010100 | 0.59 | 64 | 0111111 | 3.48 | 107 | 1101010 | 33.25 |
| 22 | 0010101 | 0.62 | 65 | 1000000 | 3.67 | 108 | 1101011 | 35.11 |
| 23 | 0010110 | 0.64 | 66 | 1000001 | 3.85 | 109 | 1101100 | 37 |
| 24 | 0010111 | 0.67 | 67 | 1000010 | 4.04 | 110 | 1101101 | 39.13 |
| 25 | 0011000 | 0.69 | 68 | 1000011 | 4.24 | 111 | 1101110 | 41.3 |
| 26 | 0011001 | 0.72 | 69 | 1000100 | 4.47 | 112 | 1101111 | 43.6 |
| 27 | 0011010 | 0.73 | 70 | 1000101 | 4.71 | 113 | 1100000 | 46 |
| 28 | 0011011 | 0.76 | 71 | 1000110 | 4.95 | 114 | 1100001 | 48.6 |
| 29 | 0011100 | 0.78 | 72 | 1000111 | 5.2 | 115 | 1100010 | 51.3 |
| 30 | 0011101 | 0.81 | 73 | 1001000 | 5.47 | 116 | 1100011 | 54.18 |
| 31 | 0011110 | 0.84 | 74 | 1001001 | 5.76 | 117 | 1101000 | 57.2 |
| 32 | 0011111 | 0.87 | 75 | 1001010 | 6.07 | 118 | 1101001 | 60.4 |
| 33 | 0100000 | 0.92 | 76 | 1001011 | 6.39 | 119 | 1101010 | 63.8 |
| 34 | 0100001 | 0.94 | 77 | 1001100 | 6.73 | 120 | 1101011 | 67.35 |
| 35 | 0100010 | 0.98 | 78 | 1001101 | 7.1 | 121 | 1111000 | 71.1 |
| 36 | 0100011 | 1.02 | 79 | 1001110 | 7.47 | 122 | 1111001 | 75.1 |
| 37 | 0100100 | 1.06 | 80 | 1001111 | 7.87 | 123 | 1111010 | 79.28 |
| 38 | 0100101 | 1.1 | 81 | 1010000 | 8.3 | 124 | 1111011 | 83.71 |
| 39 | 0100110 | 1.15 | 82 | 1010001 | 8.75 | 125 | 1111100 | 88.4 |
| 40 | 0100111 | 1.2 | 83 | 1010010 | 9.21 | 126 | 1111101 | 93.35 |
| 41 | 0101000 | 1.23 | 84 | 1010011 | 9.71 | 127 | 1111110 | 98.58 |
| 42 | 0101001 | 1.3 | 85 | 1010100 | 10.24 | 128 | 1111111 | 100 |
| 43 | 0101010 | 1.34 | 86 | 1010101 | 10.8 | | | |

LIN DIP SETTINGS/DIMMING LEVELS FOR FIXED RGBW

| LEVEL | DIPSW SETTING | OUTPUT (%) | LEVEL | DIPSW SETTING | OUTPUT (%) | LEVEL | DIPSW SETTING | OUTPUT (%) |
|-------|---------------|------------|-------|---------------|------------|-------|---------------|------------|
| 1 | 0000000 | 0.05 | 44 | 0101011 | 34.22 | 87 | 1010110 | 68.08 |
| 2 | 0000001 | 1.15 | 45 | 0101100 | 35.01 | 88 | 1010111 | 68.88 |
| 3 | 0000010 | 1.95 | 46 | 0101101 | 35.81 | 89 | 1011000 | 69.67 |
| 4 | 0000011 | 2.73 | 47 | 0101110 | 36.6 | 90 | 1011001 | 70.45 |
| 5 | 0000100 | 3.51 | 48 | 0101111 | 37.37 | 91 | 1011010 | 71.24 |
| 6 | 0000101 | 4.31 | 49 | 0110000 | 38.17 | 92 | 1011011 | 72.02 |
| 7 | 0000110 | 5.1 | 50 | 0110001 | 38.95 | 93 | 1011100 | 72.82 |
| 8 | 0000111 | 5.87 | 51 | 0110010 | 39.75 | 94 | 1011101 | 73.6 |
| 9 | 0001000 | 6.67 | 52 | 0110011 | 40.53 | 95 | 1011110 | 74.4 |
| 10 | 0001001 | 7.46 | 53 | 0110100 | 41.32 | 96 | 1011111 | 75.18 |
| 11 | 0001010 | 8.24 | 54 | 0110101 | 42.1 | 97 | 1100000 | 75.98 |
| 12 | 0001011 | 9.03 | 55 | 0110110 | 42.9 | 98 | 1100001 | 76.75 |
| 13 | 0001100 | 9.82 | 56 | 0110111 | 43.68 | 99 | 1100010 | 77.54 |
| 14 | 0001101 | 10.6 | 57 | 0111000 | 44.47 | 100 | 1100011 | 78.33 |
| 15 | 0001110 | 11.4 | 58 | 0111001 | 45.25 | 101 | 1100100 | 79.12 |
| 16 | 0001111 | 12.18 | 59 | 0111010 | 46.05 | 102 | 1100101 | 79.9 |
| 17 | 0010000 | 12.98 | 60 | 0111011 | 46.83 | 103 | 1100110 | 80.7 |
| 18 | 0010001 | 13.75 | 61 | 0111100 | 47.63 | 104 | 1100111 | 81.48 |
| 19 | 0010010 | 14.55 | 62 | 0111101 | 48.4 | 105 | 1101000 | 82.28 |
| 20 | 0010011 | 15.33 | 63 | 0111110 | 49.19 | 106 | 1101001 | 83.04 |
| 21 | 0010100 | 16.12 | 64 | 0111111 | 49.97 | 107 | 1101010 | 83.84 |
| 22 | 0010101 | 16.91 | 65 | 1000000 | 50.77 | 108 | 1101011 | 84.64 |
| 23 | 0010110 | 17.7 | 66 | 1000001 | 51.55 | 109 | 1101100 | 85.42 |
| 24 | 0010111 | 18.48 | 67 | 1000010 | 52.34 | 110 | 1101101 | 86.21 |
| 25 | 0011000 | 19.28 | 68 | 1000011 | 53.12 | 111 | 1101110 | 86.98 |
| 26 | 0011001 | 20.05 | 69 | 1000100 | 53.92 | 112 | 1101111 | 87.77 |
| 27 | 0011010 | 20.85 | 70 | 1000101 | 54.7 | 113 | 1110000 | 88.56 |
| 28 | 0011011 | 21.64 | 71 | 1000110 | 55.49 | 114 | 1110001 | 89.34 |
| 29 | 0011100 | 22.42 | 72 | 1000111 | 56.27 | 115 | 1110010 | 90.14 |
| 30 | 0011101 | 23.2 | 73 | 1001000 | 57.07 | 116 | 1110011 | 90.92 |
| 31 | 0011110 | 24 | 74 | 1001001 | 57.85 | 117 | 1110100 | 91.71 |
| 32 | 0011111 | 24.78 | 75 | 1001010 | 58.65 | 118 | 1110101 | 92.49 |
| 33 | 0100000 | 25.58 | 76 | 1001011 | 59.42 | 119 | 1110110 | 93.28 |
| 34 | 0100001 | 26.35 | 77 | 1001100 | 60.21 | 120 | 1110111 | 94.08 |
| 35 | 0100010 | 27.15 | 78 | 1001101 | 61 | 121 | 1111000 | 94.88 |
| 36 | 0100011 | 27.92 | 79 | 1001110 | 61.8 | 122 | 1111001 | 95.64 |
| 37 | 0100100 | 28.72 | 80 | 1001111 | 62.58 | 123 | 1111010 | 96.44 |
| 38 | 0100101 | 29.51 | 81 | 1010000 | 63.38 | 124 | 1111011 | 97.2 |
| 39 | 0100110 | 30.3 | 82 | 1010001 | 64.15 | 125 | 1111100 | 97.97 |
| 40 | 0100111 | 31.08 | 83 | 1010010 | 64.95 | 126 | 1111101 | 98.76 |
| 41 | 0101000 | 31.88 | 84 | 1010011 | 65.73 | 127 | 1111110 | 99.53 |
| 42 | 0101001 | 32.65 | 85 | 1010100 | 66.51 | 128 | 1111111 | 100% |
| 43 | 0101010 | 33.45 | 86 | 1010101 | 67.3 | | | |

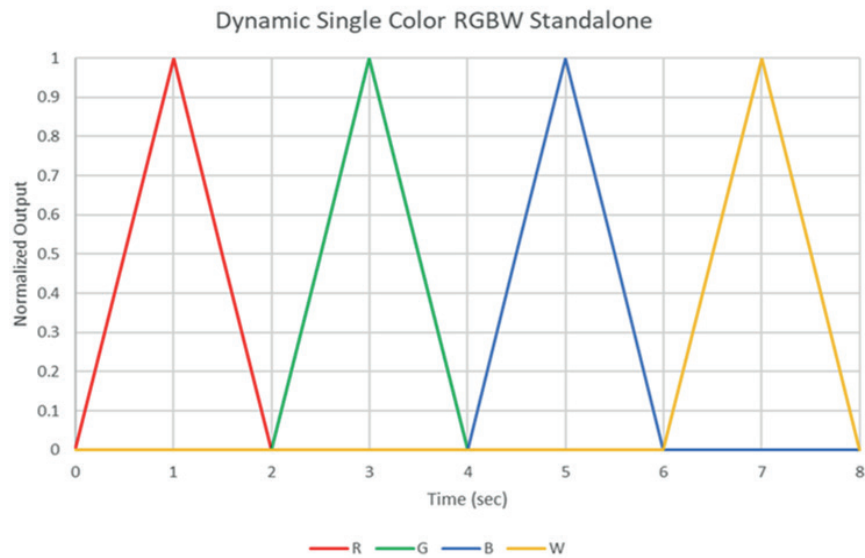
STANDALONE DYNAMIC MODES

Dynamic test mode is used to check the system functionality. This mode will ignore control inputs and cycle through the output range.

| STANDALONE DYNAMIC RGBW 8bits/16bits | MODE(Pos 1-3) | Switches 4-12 |
|--------------------------------------|---------------|-----------------|
| DYNAMIC Single color RGBW 16bit/8bit | 111 | X-X-X-X-X-X-X-0 |
| DYNAMIC Mixed color RGBW 16bit/8bit | 111 | X-X-X-X-X-X-X-1 |

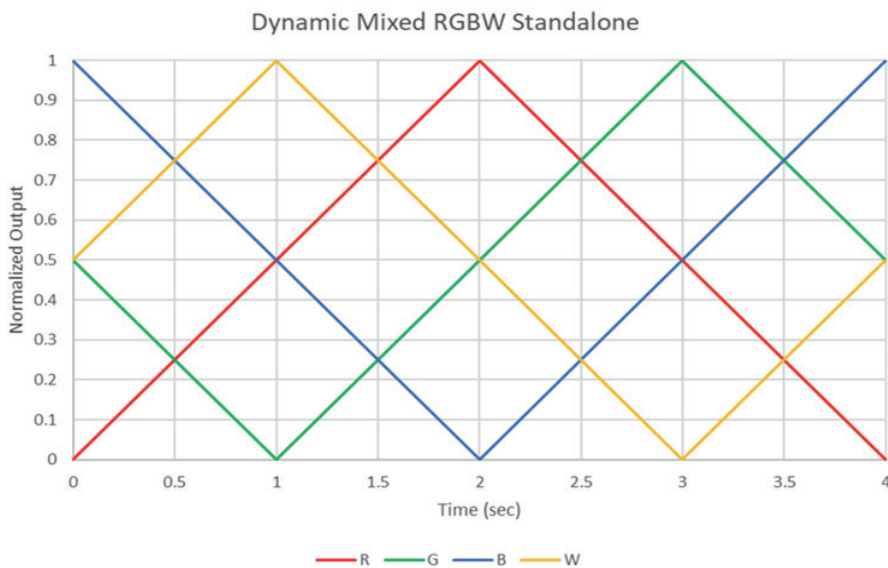
DYNAMIC SINGLE COLOR

Each color output duty cycle starts from 0% and ramps linearly up to 100% output for 1s, then ramps back down to 0% for 1s, starting with RED, GREEN, BLUE, WHITE and then repeats indefinitely with a period of 8 seconds.



DYNAMIC MIXED COLOR

Each color output duty cycle starts from 0% and ramps linearly up to 100% output for 2s, then ramps back down to 0% for 2s. Channels start ramping with 1s delay starting with RED color and repeats indefinitely.



TROUBLESHOOTING

| CONTROLLER STATUS | MODE | LED STATUS | LOAD BEHAVIOR |
|---|------------|---|--|
| OFF (No input power) | All | OFF | OFF |
| DMX Control Input Recognized | Standard | Green ON Steady | Responsive to DMX Commands |
| Standalone Recognized | Standalone | Alternate Amber/Green Slow(1 Hz) | Responsive only to DIP Switch Settings |
| DMX Control Input missing | Standard | Amber On Steady State | ALL colors at full ON, white color |
| DMX Shorted | Standard | Amber On Steady State | ALL colors at full ON, white color |
| Input Over Voltage | All | Amber Flashing Slow (1Hz) | OFF |
| Input Under Voltage | All | Amber Flashing Fast (8 Hz) | OFF |
| Output Short Circuit Common + to any R,G,B,W color - | All | RED LED flashes at 1s rate | Load is OFF on shorted Channel All loads of the unit, except the shorted one, are flashing The rest of units in the installation remain responsive to DMX commands |
| Output short circuit between any two R,G,B,W - | All | RED LED flashes at 1s rate | Color shorted is brighter, still DMX control |
| Output Overload | | RED LED flashes at 1s rate | Loads Flash at 1s rate |
| DMX Disconnected during normal operation (D- or D+) from unit "n" | Standard | Amber LED on units with addresses > "n" | Units with addresses <n have loads flickering and units with addresses >n are at full ON and display amber LE |



RoHS



5 Year Limited Warranty:
Parts and workmanship