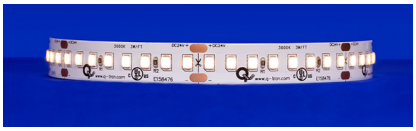
# SW-HE24/6.0

LED Strips - Static White High Efficacy



- High-efficacy, one bin, one step static white LED tape provides consistent color project to project with exceptional photometric qualities
- 8 diodes per 2" cut point
- Dry and wet-rated
- Field-cuttable up to 192"
- Ambient operating temp: -4-115°F
- Installation temp: 50-100°F | Storage temp: -4-140°F
- Calculated L70 = 66000 hrs

| 1 V/WATTS | 2 RATED | 3 CCT | 4 CONNECTOR/WIRE IN | 5 CONNECTOR/WIRE OUT | 6 WIRE COLOR | 7 WIRE TYPE | 8 ILLUMINATED LENGTH |
|---|---|---|---|---|---|---|---|
| SW-HE24/6.0 | | | | | | | |

Sample Part Number: **SW-HE24/6.0-DMP-24-BW-CLS-WH-CL2-48"**

## 1 V/WATTS

**SW-HE24/6.0**

Voltage: 24VDC
Wattage: 6.0W/ft
See following pages for compatible power supplies.

## 2 RATED

| | |
|---|---|
| **DRY** | IP20 |
| **DMP** | IP54 |
| **WET** | IP67 |

## 3 CCT

| | |
|---|---|
| **18** | 1800K |
| **20** | 2000K |
| **22** | 2200K |
| **24** | 2400K |
| **27** | 2700K |
| **30** | 3000K |
| **35** | 3500K |
| **40** | 4000K |

## 4 CONNECTOR/WIRE IN

| | |
|---|---|
| **BW** | Bare Wire (Standard 24") |
| **BRL** | Barrel |
| **CLS** | Closed End (No feed) |
| **CON6** | Connector 6" |
| **CON24** | Connector 24" |

Connector/Wire In not needed to specify product. Typical selection is BW.
BW: Standard length is 24", Max length is 120". Request custom length by writing in part number next to BW (example: BW48)

## 5 CONNECTOR/WIRE OUT

| | |
|---|---|
| **BW** | Bare Wire (Standard 24") |
| **BRL** | Barrel |
| **CLS** | Closed End (No feed) |
| **CON6** | Connector 6" |
| **CON24** | Connector 24" |

Connector/Wire Out not needed to specify product. Typical selection is CLS or BW.
BW: Standard length is 24", Max length is 120". Request custom length by writing in part number next to BW (example: BW48)

## 6 WIRE COLOR

| | |
|---|---|
| **WH** | White |
| **BK** | Black |
| **N/A** | Specify for Barrel |

Barrel is white

## 7 WIRE TYPE

| | |
|---|---|
| **CL2** | Class 2 |
| **CL2P** | Class 2 Plenum Rated |
| **N/A** | Specify for Barrel |

CL2P only available with bare wire leads (BW)

## 8 ILLUMINATED LENGTH

DRY: 2"-192" in 2" increments
DMP: 2"-192" in 2" increments
WET: 2"-192" in 2" increments

Dry version also available in reel lengths of 16' (Class 2) and 100'. Each reel will have a 2' soldered lead wire attached. Contact factory for larger reels.

## COMPATIBLE EXTRUSIONS

| | WIDE | TORQ | TRE3 | LALO | TALO | ARKA | TELA | VEVE | FLUR | EMBD | LATO | MDIN | OPTI-FLAT | OPTI-OPTICS | THIN | POSH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **DRY** | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| **DMP** | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| **WET** | ✓ | | | | | | | | | | | | ✓ | | | |

5 year warranty | Warranty only valid with QTL power supplies | Field modifications must comply with QTL's installation methods otherwise warranty is null & void | All data has +/- 5% tolerance | UL Listed | Consult factory for alternate Kelvin temperature | Title 24 - JA8-2019 Strips: DRY and WET rated, 2000K and above

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# SW-HE24/6.0

LED Strips - Static White High Efficacy

## 3 CCT – LUMENS/CRI - DELIVERED LUMENS

### DRY

[Calculated L70 = 66000 hrs]
Tested with SW-HE24/6.0-DRY

| CCT | Lumen/ft | Luminous Efficacy | CRI Ra | CRI R9 | TM30 Rf | TM30 Rg |
|---|---|---|---|---|---|---|
| 1800K | ** | ** | ** | ** | ** | ** |
| 2000K | 693 | 111 Lm/W | 93 | 59 | 91 | 101 |
| 2200K | 685 | 114 Lm/W | 96 | 88 | 92 | 97 |
| 2400K | 703 | 117 Lm/W | 96 | 93 | 92 | 99 |
| 2700K | 710 | 118 Lm/W | 97 | 94 | 94 | 100 |
| 3000K | 771 | 128 Lm/W | 98 | 95 | 93 | 99 |
| 3500K | 794 | 132 Lm/W | 98 | 94 | 92 | 99 |
| 4000K | 779 | 130 Lm/W | 97 | 98 | 91 | 98 |

### DMP

[Calculated L70 = 66000 hrs]
Tested with SW-HE24/6.0-DMP

| CCT | Lumen/ft | CRI Ra |
|---|---|---|
| 1800K | ** | ** |
| 2000K | ** | ** |
| 2200K | ** | ** |
| 2400K | ** | ** |
| 2700K | ** | ** |
| 3000K | ** | ** |
| 3500K | ** | ** |
| 4000K | ** | ** |

### WET

[Calculated L70 = 66000 hrs]
Tested with SW-HE24/6.0-WET

| CCT | Lumen/ft | CRI Ra |
|---|---|---|
| 1800K | ** | ** |
| 2000K | 609 | 93 |
| 2200K | 594 | 96 |
| 2400K | 620 | 96 |
| 2700K | 627 | 97 |
| 3000K | 656 | 98 |
| 3500K | 697 | 98 |
| 4000K | 674 | 97 |

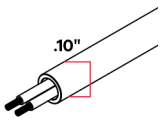
## TEMPERATURE RATINGS

| | | Min | Max |
|---|---|---|---|
| DRY | Ambient Operating Temp - Surface | -4°F | 115°F |
| | Storage Temp | -4°F | 140°F |
| | Installation Temp | 50°F | 100°F |

## 4/5 CONNECTOR/WIRE – IN/OUT

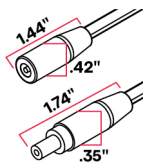
Connector/Wire In or Out not needed to specify product. Standard configuration is BW for Wire In and CLS for Wire out

**BW**



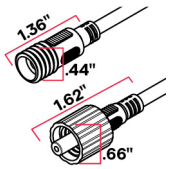

Bare Wire 24"
Stranded 22 AWG

**BRL**



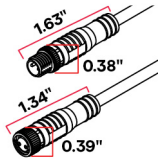

Barrel 6" - DRY/DMP | 22 AWG

**BRL**



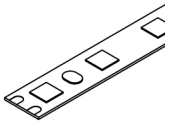

Barrel 6"- WET | 22 AWG

**CON6/CON24**



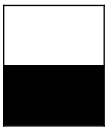

6" or 24" Overall
Wire Connector | 22 AWG
IP67 Rated, UL Listed

**CLS**



Not soldered

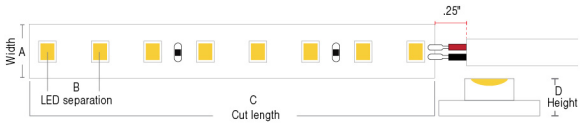
## 6 WIRE COLOR



White

Black

## 8 ILLUMINATED LENGTH - DIMENSIONS




| Section (in) | A | B | C | D |
|---|---|---|---|---|
| DRY (IP20) | 0.47" | 0.24" | 2.00" | 0.07" |
| DMP (IP54) | 0.47" | 0.24" | 2.00" | 0.07" |
| WET (IP67) | 0.55" | 0.24" | 2.00" | 0.16" |

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Specification subject to change. Rev-08-07-26

# SW-HE24/6.0

LED Strips - Static White High Efficacy

## COMPATIBLE POWER SUPPLIES

See power supplies cut sheets for more information. Data subject to change, all data has +/- 5% tolerance.

| DIM TO LEVEL | INDOOR | OUTDOOR |
|---|---|---|
| | SW24/5.0, SW-HE, SW-HE+ | SW24/5.0, SW-HE, SW-HE+ |
| Dim to Black | Q6M-DC+CAP<br>QTM-DC+CAP<br>iQ-PH+QD1 | QOM-DC+CAP<br>QOM-PH |
| 0.1% | QT-CAB-QZ-PH/0-10V<br>QT-CAB-eLED+0-10V<br>QT-CAB-eLED+0-10V-AWN<br>QT-CAB-eLED+DALI-DT6<br>QT-CAB-eLED+DALI-DT6-AWN<br>QTM-eLED+0-10V<br>QTM-eLED+0-10V-AWN<br>QTM-eLED+DALI-DT6<br>QTM-eLED+DALI-DT6-AWN<br>QZ-BOWTIE+DIMMER<br>QZ-DMX<br>QZ-PRO-PH/0-10V<br>QZ-STICK-PH/0-10V<br>QZLP | Q-SET-QZ-DMX<br>Q-SET-QZ-PH/0-10V<br>Q-SET-eLED+0-10V<br>QOM-eLED+0-10V<br>QOM-eLED+DALI-DT6<br>QOM-eLED+DALI-DT6-PS<br>QZ-DMX<br>QZ-PRO-PH/0-10V |
| 1% | Q-DIM<br>QTM-eLED(E)<br>QZ-DALI-DT6 | Q-SET+QZ-DALI-DT6<br>QZ-DALI-DT6 |
| 10% | Non-Dim Power Supply with SW App Dongle | |

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# SW-HE24/6.0

LED Strips - Static White High Efficacy

| DIMMING PROTOCOL | INDOOR | OUTDOOR |
|---|---|---|
| | SW24/5.0, SW-HE, SW-HE+ | SW24/5.0, SW-HE, SW-HE+ |
| Non-Dim | QT-CAB-eLED-ND<br>QTM-eLED-ND<br>QZ-ND | Q-SET-QZ-ND<br>Q-SET-eLED-ND<br>QOM-eLED-ND<br>QZ-ND |
| Phase | Q6M-DC+CAP<br>QT-CAB-QZ-PH/0-10V<br>QTM-DC+CAP<br>QTM-eLED(E)<br>QZ-BOWTIE+DIMMER<br>QZ-PRO-PH/0-10V<br>QZ-STICK-PH/0-10V<br>QZLP<br>iQ-PH+QD1 | Q-SET-QZ-PH/0-10V<br>QOM-DC+CAP<br>QOM-PH<br>QZ-PRO-PH/0-10V |
| 0-10V | QT-CAB-QZ-PH/0-10V<br>QT-CAB-eLED+0-10V<br>QT-CAB-eLED+0-10V-AWN<br>QTM-eLED+0-10V<br>QTM-eLED+0-10V-AWN<br>QZ-PRO-PH/0-10V<br>QZ-STICK-PH/0-10V<br>QZLP | Q-SET-QZ-PH/0-10V<br>Q-SET-eLED+0-10V<br>QOM-eLED+0-10V<br>QZ-PRO-PH/0-10V |
| Lutron Athena | QT-CAB-eLED+0-10V-AWN<br>QT-CAB-eLED+DALI-DT6-AWN<br>QTM-eLED+0-10V-AWN<br>QTM-eLED+DALI-DT6-AWN | |
| ECO System | QTM-eLED(E) | |
| DMX | QZ-DMX | Q-SET-QZ-DMX<br>QZ-DMX |
| DALI-2: DT6 | QT-CAB-eLED+DALI-DT6<br>QT-CAB-eLED+DALI-DT6-AWN<br>QTM-eLED+DALI-DT6<br>QTM-eLED+DALI-DT6-AWN<br>QZ-DALI-DT6 | Q-SET+QZ-DALI-DT6<br>QOM-eLED+DALI-DT6<br>QZ-DALI-DT6 |
| SCENE App Dimmed | Non-Dim Power Supply with SW App Dongle | |

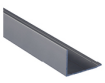
## COMPATIBLE MOUNTING ACCESSORIES

**QUOVA-MICRO**



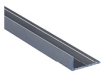
QUOVA Knife Edge

**BL-GRAZER**



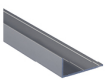
Backwards L Mounting Bracket

**BL-MICRO**



Backwards L Mounting Bracket

**BL-LARGE**



Backwards L Mounting Bracket

**SD-L-LARGE**



L Mounting Bracket

**SD-L-MEDIUM**



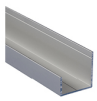
L Mounting Bracket

**SD-L-MICRO**



L Mounting Bracket

**SD-J-LARGE**



J Mounting Bracket

**iQ-STRAP**



Plastic strap, Fits all LED strips

**iQ-CLIP-SS10**



Metal clip, WET STRIP ONLY

**iQ-CLIP-PL**



Plastic clip, Fits WET strip

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# SW-HE24/6.0

LED Strips - Static White High Efficacy

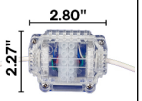
## COMPATIBLE WIRING ACCESSORIES

**Q-mini-J**




UL Listed, miniature junction box, DRY/DMP (WET rated with silicone)

**Q-mini-J5**




UL Listed, miniature junction box, DRY/DMP (WET rated with silicone)

**BARREL-EXT**



8ft barrel cable extender DRY ONLY

**BARREL FOUR-FER**



Splits lead from one to four LED Barrel connector fixtures, DRY/DMP

**CON120-EXT**



10ft Con cable extender DRY/DMP/WET

**CON FOUR-FER**



Splits lead from one to four LED Con connectors DRY/DMP/WET

**Q-NECT-03-LEAD-24**




Connects LED board to 24" lead wire DRY ONLY

**Q-NECT-03-JUMP-3**




Connects two LED boards together with 3" jumper, DRY ONLY

**Q-NECT-03-INLINE**




Connects two LED boards together DRY ONLY

## COMPATIBLE CONTROL ACCESSORIES

**SCENE APP DONGLE**




Wi-Fi or Bluetooth Connectivity

## COMPATIBLE APPS

**NFC APP**




Read and write DMX addresses and adjust voltage

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# SW-HE24/1.5W-9.0W

LED STRIPS - Lumen Multiplier

## LUMEN MULTIPLIER FORMULA

Bare LED Lumens x Extrusion Finish/Lens Value = Delivered Lumens

Example: **222 lm/ft x 0.69 = 153 lm/ft**

SW-HE24/1.5 at 3000K x TORQ Extrusion in Satin with FR Lens

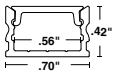
Diode free or near Diode free

### ARKA




| LENS | Finish | | |
|---|---|---|---|
| | Satin (ST) | Black (BK) | Bronze (BZ) |
| CL | 0.87 | 0.82 | 0.82 |
| FR | 0.84 | 0.80 | 0.80 |
| PR | 0.83 | 0.78 | 0.78 |
| DF | 0.75 | 0.66 | 0.66 |

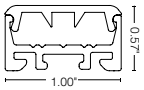
### LALO




Dimensions for FLAT-01 Lens Shown

| LENS | Finish | | |
|---|---|---|---|
| | Satin (ST) | Black (BK) | Bronze (BZ) |
| CL | 0.79 | 0.67 | N/A |
| FR | 0.79 | 0.66 | N/A |
| PR | 0.71 | 0.60 | N/A |
| DF | 0.64 | 0.52 | N/A |
| 17° | 0.87 | 0.80 | N/A |
| ENC/CL | 0.63 | 0.43 | N/A |
| ENC/TL | 0.44 | 0.31 | N/A |

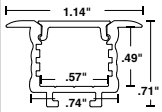
### OPTI




Dimensions for OPTICS-02 Lens Shown

| LENS | Finish | | |
|---|---|---|---|
| | Satin (ST) | Black (BK) | Bronze (BZ) |
| 40° | 0.90 | 0.73 | N/A |
| 60° | 0.87 | 0.70 | N/A |
| 70° | 0.88 | 0.71 | N/A |
| 90° | 0.87 | 0.70 | N/A |
| 110° | 0.78 | 0.60 | N/A |
| 155° | 0.77 | 0.59 | N/A |
| 180° | 0.79 | 0.62 | N/A |
| ASYM | 0.85 | 0.68 | N/A |
| FT | 0.75 | 0.58 | N/A |
| CL | 0.96 | 0.78 | N/A |
| FR | 0.94 | 0.76 | N/A |
| PR | 0.89 | 0.72 | N/A |
| DF | 0.81 | 0.64 | N/A |

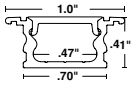
### EMBD




Dimensions for FLAT-01 Lens Shown

| LENS | Finish | | |
|---|---|---|---|
| | Satin (ST) | Black (BK) | Bronze (BZ) |
| FR | 0.71 | N/A | N/A |
| PR | 0.64 | N/A | N/A |
| DF | 0.55 | N/A | N/A |
| 12° | 0.73 | N/A | N/A |
| 14° | 0.79 | N/A | N/A |
| 20° | 0.83 | N/A | N/A |
| 30° | 0.85 | N/A | N/A |
| 45° | 0.96 | N/A | N/A |
| 60° | 0.94 | N/A | N/A |
| ENC/CL | 0.51 | N/A | N/A |
| ENC/TL | 0.43 | N/A | N/A |

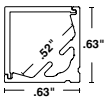
### LATO




Dimensions for FLAT-01 Lens Shown

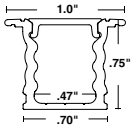
| LENS | Finish | | |
|---|---|---|---|
| | Satin (ST) | Black (BK) | Bronze (BZ) |
| CL | 0.77 | 0.64 | 0.64 |
| FR | 0.77 | 0.64 | 0.64 |
| PR | 0.64 | 0.50 | 0.50 |
| DF | 0.61 | 0.46 | 0.46 |
| ENC/CL | 0.57 | 0.37 | 0.37 |
| ENC/TL | 0.36 | 0.20 | 0.20 |

### TELA




| LENS | Finish | | |
|---|---|---|---|
| | Satin (ST) | Black (BK) | Bronze (BZ) |
| FR | 0.82 | 0.79 | 0.79 |
| DF | 0.80 | 0.72 | 0.72 |

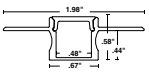
### FLUR




Dimensions for FLAT-01 Lens Shown

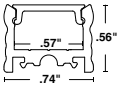
| LENS | Finish | | |
|---|---|---|---|
| | Satin (ST) | Black (BK) | Bronze (BZ) |
| FR | 0.68 | 0.50 | N/A |
| PR | 0.61 | 0.44 | N/A |
| DF | 0.40 | 0.30 | N/A |
| ENC/CL | 0.46 | 0.25 | N/A |
| ENC/TL | 0.30 | 0.13 | N/A |
| 45° | 0.70 | 0.53 | N/A |
| 60° | 0.71 | 0.54 | N/A |
| 80° | 0.75 | 0.57 | N/A |

### MDIN-S




| LENS | Finish | | |
|---|---|---|---|
| | Satin (ST) | Black (BK) | Bronze (BZ) |
| DF | 0.46 | N/A | N/A |

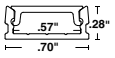
### TALO




Dimensions for FLAT-01 Lens Shown

| LENS | Finish | | |
|---|---|---|---|
| | Satin (ST) | Black (BK) | Bronze (BZ) |
| CL | 0.77 | 0.64 | N/A |
| FR | 0.75 | 0.62 | N/A |
| PR | 0.69 | 0.55 | N/A |
| DF | 0.63 | 0.47 | N/A |
| ENC/CL | 0.64 | 0.42 | N/A |
| ENC/TL | 0.47 | 0.30 | N/A |

### THIN




| LENS | Finish | | |
|---|---|---|---|
| | Satin (ST) | Black (BK) | Bronze (BZ) |
| CL | 0.90 | 0.80 | N/A |
| FR | 0.90 | 0.80 | N/A |
| PR | 0.85 | 0.74 | N/A |
| DF | 0.78 | 0.63 | N/A |

Data is subject to change | All data has +/- 5% tolerance

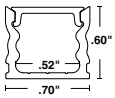
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# SW-HE24/1.5W-9.0W

LED STRIPS - Lumen Multiplier

Diode free or near Diode free

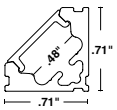
## TORQ




Dimensions for FLAT-01 Lens Shown

| LENS | Finish | | |
|---|---|---|---|
| | Satin (ST) | Black (BK) | Bronze (BZ) |
| FR | 0.69 | 0.58 | 0.58 |
| PR | 0.62 | 0.48 | 0.48 |
| DF | 0.56 | 0.40 | 0.40 |
| ENC/CL | 0.57 | 0.30 | 0.30 |
| ENC/TL | 0.53 | 0.22 | 0.22 |
| 12° | 0.67 | 0.55 | 0.55 |
| 40° | 0.90 | 0.80 | 0.80 |
| 60° | 0.70 | 0.59 | 0.59 |
| 70° | 0.71 | 0.60 | 0.60 |

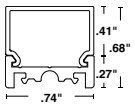
## VEVE




Dimensions for FLAT-01 Lens Shown

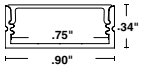
| LENS | Finish | | |
|---|---|---|---|
| | Satin (ST) | Black (BK) | Bronze (BZ) |
| CL | 0.79 | 0.69 | N/A |
| FR | 0.77 | 0.68 | N/A |
| PR | 0.71 | 0.58 | N/A |
| DF | 0.64 | 0.50 | N/A |
| ENC/CL | 0.63 | 0.50 | N/A |
| ENC/TL | 0.42 | 0.29 | N/A |
| 20° | 0.83 | 0.78 | N/A |
| 45° | 0.91 | 0.85 | N/A |

## TRE3




| LENS | Finish | | |
|---|---|---|---|
| | Satin (ST) | Black (BK) | Bronze (BZ) |
| DF | 0.73 | N/A | N/A |

## WIDE




| LENS | Finish | | |
|---|---|---|---|
| | Satin (ST) | Black (BK) | Bronze (BZ) |
| CL | 0.91 | 0.81 | 0.81 |
| FR | 0.91 | 0.81 | 0.81 |
| PR | 0.86 | 0.75 | 0.75 |
| DF | 0.77 | 0.62 | 0.62 |

## SHLD-A



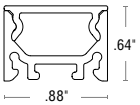

| LENS | Size | | |
|---|---|---|---|
| | Small | Medium | Large |
| FR | 0.85 | 0.89 | 0.88 |
| DF | 0.69 | 0.77 | 0.74 |

## SHLD-B




| LENS | Size | | |
|---|---|---|---|
| | Small | Medium | Large |
| FR | 0.82 | 0.90 | 0.92 |
| DF | 0.74 | 0.82 | 0.78 |

## VERS




Dimensions for PROUD-01 Lens Shown

| LENS | | Finish | | |
|---|---|---|---|---|
| | | Satin (ST) | Black (BK) | Bronze (BZ) |
| VERS 01 | FR | 0.88 | 0.85 | 0.85 |
| VERS 01 | PR | 0.87 | 0.80 | 0.80 |
| VERS 01 | DF | 0.80 | 0.66 | 0.66 |
| VERS 02 | PR | 0.89 | 0.85 | 0.85 |
| VERS 02 | DF | 0.86 | 0.80 | 0.80 |
| VERS 03 | CL | 0.90 | 0.88 | 0.88 |
| VERS 04 | GZR | 0.97 | 0.91 | 0.91 |
| VERS 04 | 25° | 0.91 | 0.88 | 0.88 |
| VERS 05 | 40° | 0.81 | 0.78 | 0.78 |
| VERS 05 | 50° | 0.92 | 0.89 | 0.89 |
| VERS 06 | ENC/CL | 0.75 | 0.51 | 0.51 |
| VERS 06 | ENC/TL | 0.64 | 0.40 | 0.40 |
| VERS 07 | CL | 0.50 | 0.49 | 0.49 |
| VERS 07 | DF | 0.39 | 0.39 | 0.39 |
| VERS 08 | BAT | 0.75 | 0.70 | 0.70 |
| VERS 08 | GC | 0.78 | 0.73 | 0.73 |
| VERS 09 | ASYM | 0.82 | 0.79 | 0.79 |

Data is subject to change | All data has +/- 5% tolerance

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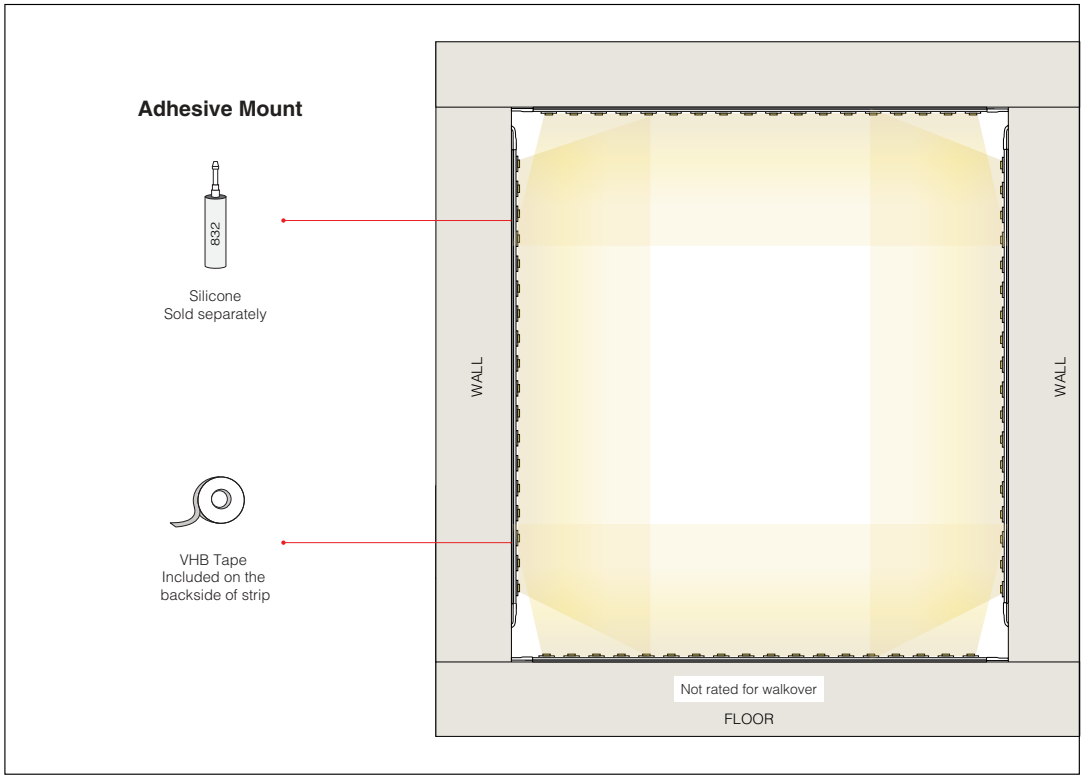
# LINEAR LED STRIP

Installation Instructions

## ATTENTION: Please read all instructions BEFORE installation

- Product to be installed by a licensed electrician
- Always ensure power supply connection to electrical circuit is disconnected before working on it
- Follow diagram to connect Secondary Voltage wires to power supply. Refer to QTL power supply instructions for wiring
- Use only with Class 2 power supply unit — Warranty only valid with QTL power supplies
- Suitable for DRY, DAMP, and WET locations
- Suitable for installation in storage area of a clothes closet when assembled as a finished extrusion up to 4W/ft at QTL facility
- Temp Rating: Refer to cut sheet
- Not rated for walkover
- Input Voltage: 24VDC
- Diagrams for representation only and not to scale.
- Once a wet strip or a damp strip is cut, it cannot be reconnected.

## METHODS OF INSTALLATION:




***NOTES:***

- *Avoid bending in sharp angles which may damage the LED.*
- *Always test LED operation before installing in extrusion. Connect LED to power supply to ensure it is working properly and all non-factory soldered connections are secure.*
- *Diagrams for representation only and not to scale.*

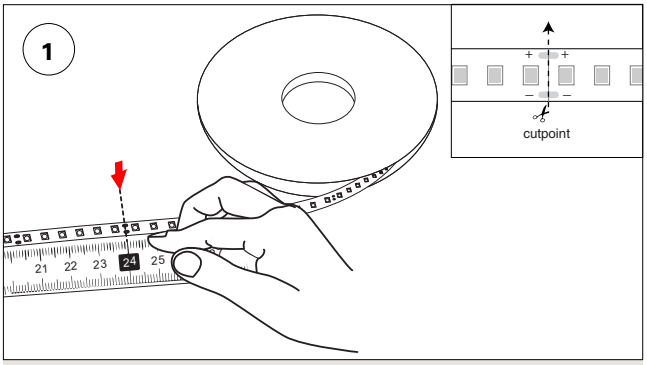


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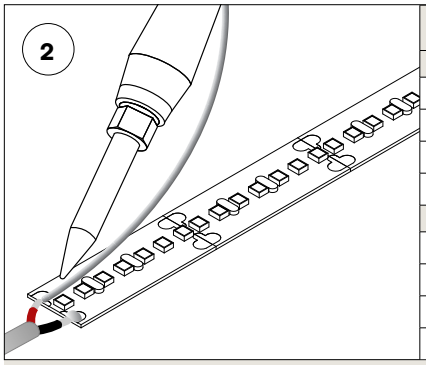
# LINEAR LED STRIP
Installation Instructions

## LED STRIP LEAD WIRE & JUMPER INSTRUCTIONS: **DRY IP20**

**If LED wires are pre-soldered from the factory, skip to page 5.**




Measure and cut LED strip to desired length with scissors along the cut point.

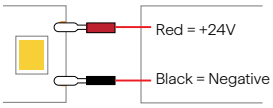



| ITEMS INCLUDED |
|---|
| iQ-LED-24-KIT |
| (1) 24" Lead wire |
| (1) 6" Solder |
| (1) 1" Shrink Tube |
| (1) 1/2" Shrink Tube |
| iQ-JUMP-6-KIT |
| (1) 6" Lead wire |
| (1) 6" Solder |
| (2) 1" Shrink Tube |
| (2) 1/2" Shrink Tube |

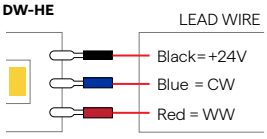
Solder lead wire onto solder pad. Confirm wires are matched up correctly before soldering. See wiring diagrams below for specific light engine details.

**NOTE:** Recommended soldering iron temperature of 650˚ – 700˚F for lead-free solder.

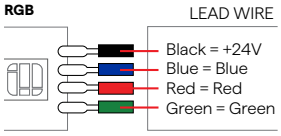
**SW, SC, SD-SW, SW-HE, SW-HE+**



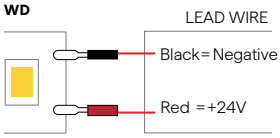

**DW-HE**



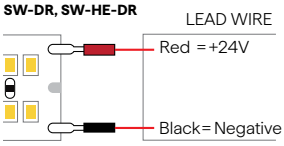

**RGB**




**WD**



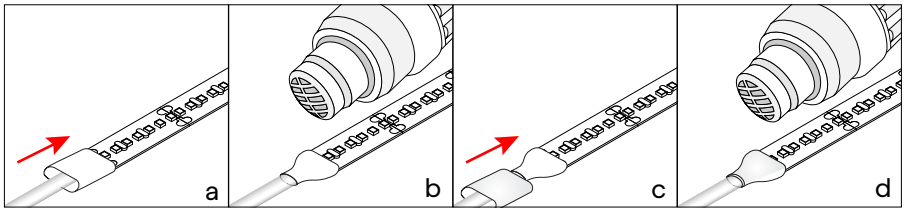

**SW-DR, SW-HE-DR**




*Middle rail is optional 24V do not connect both 24V rails to power

3

**NOTE:**
Connect LED to power supply to ensure it is working properly and all non-factory soldered connections are secure before proceeding with step #3.




**ONCE ALL CONNECTIONS ARE FUNCTIONING PROPERLY, DISCONNECT POWER AND BEGIN HEAT SHRINKING INSTRUCTIONS BELOW:**

a: Place 1st sleeve (1/2" Shrink Tube ) on lead wire.

b: Shrink the tube with heat gun.

c: Place 2nd sleeve (1" Shrink Tube ) on lead wire.

d: Shrink the tube with heat gun.

***NOTES:***

- *Avoid bending in sharp angles which may damage the LED.*
- *Always test LED operation before installing in extrusion. Connect LED to power supply to ensure it is working properly and all non-factory soldered connections are secure.*
- *Diagrams for representation only and not to scale.*

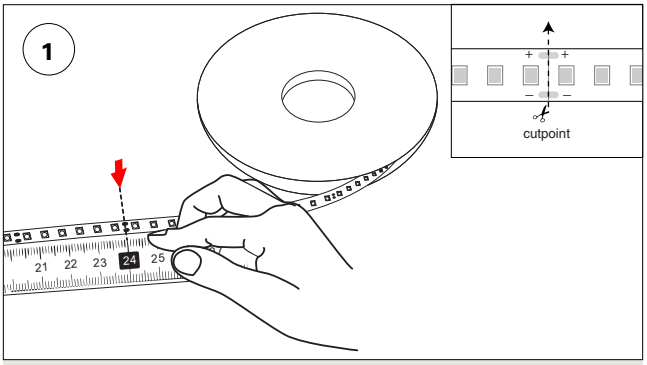


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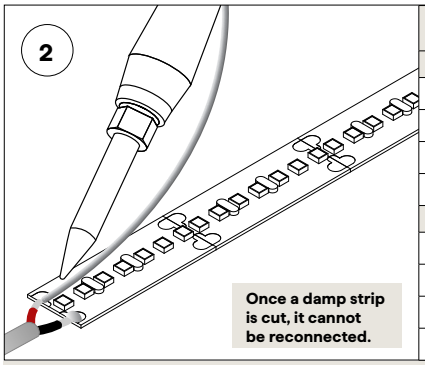
# LINEAR LED STRIP
Installation Instructions

## LED STRIP LEAD WIRE & JUMPER INSTRUCTIONS: **DMP IP54**

**If LED wires are pre-soldered from the factory, skip to page 5.**



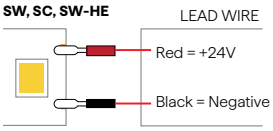

Measure and cut LED strip to desired length with scissors along the cut point.

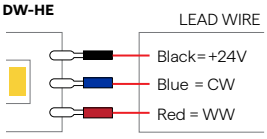


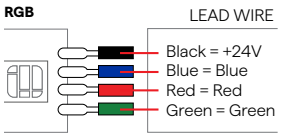

| ITEMS INCLUDED |
|---|
| iQ-LED-24-KIT |
| (1) 24" Lead wire |
| (1) 6" Solder |
| (1) 1" Shrink Tube |
| (1) 1/2" Shrink Tube |
| iQ-JUMP-6-KIT |
| (1) 6" Lead wire |
| (1) 6" Solder |
| (2) 1" Shrink Tube |
| (2) 1/2" Shrink Tube |

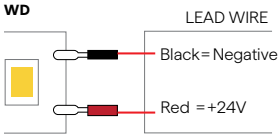
Solder lead wire onto solder pad. Confirm wires are matched up correctly before soldering. See wiring diagrams below for specific light engine details.

**NOTE:** Recommended soldering iron temperature of 650˚ – 700˚F for lead-free solder.



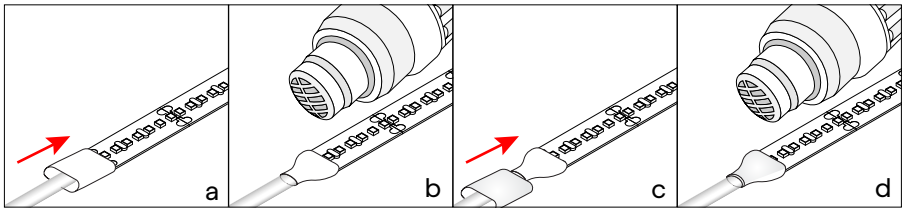




**3**

**NOTE:**
Connect LED to power supply to ensure it is working properly and all non-factory soldered connections are secure before proceeding with step #3.




**ONCE ALL CONNECTIONS ARE FUNCTIONING PROPERLY, DISCONNECT POWER AND BEGIN HEAT SHRINKING INSTRUCTIONS BELOW:**

a: Place 1st sleeve (1/2" Shrink Tube ) on lead wire.

b: Shrink the tube with heat gun.

c: Place 2nd sleeve (1" Shrink Tube ) on lead wire.

d: Shrink the tube with heat gun.

***NOTES:***

- *Avoid bending in sharp angles which may damage the LED.*
- *Always test LED operation before installing in extrusion. Connect LED to power supply to ensure it is working properly and all non-factory soldered connections are secure.*
- *Diagrams for representation only and not to scale.*

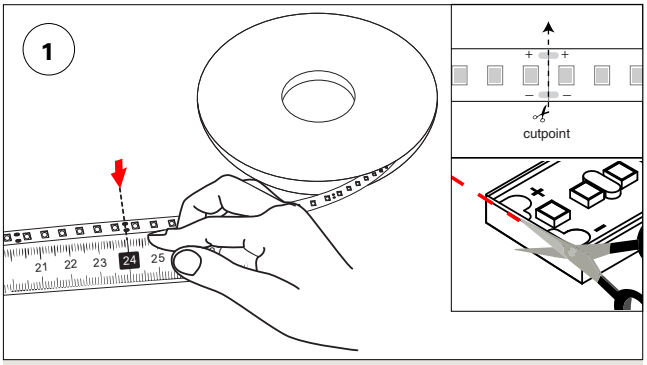


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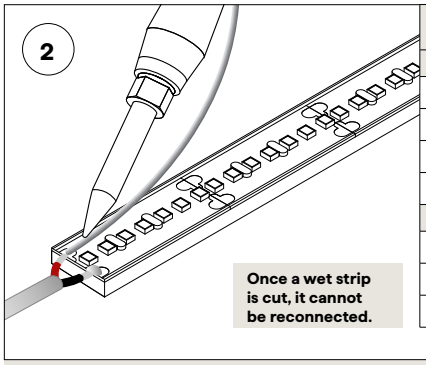
# LINEAR LED STRIP
Installation Instructions

## LED STRIP LEAD WIRE & JUMPER INSTRUCTIONS: **WET IP67**

**If LED wires are pre-soldered from the factory, skip to page 5.**



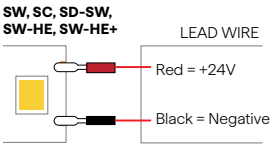

Measure and cut LED strip to desired length with scissors along the cut point.

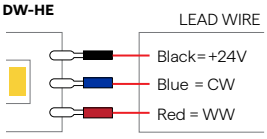


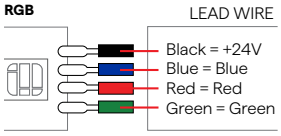

| ITEMS INCLUDED |
|---|
| iQ-LED-67-KIT |
| (1) 24" Lead wire |
| (1) 6" Solder |
| (1) Lead wire cap |
| (1) End Cap |
| iQ-JUMP-67-KIT |
| (1) 6" Lead wire |
| (1) 6" Solder |
| (2) Lead wire Caps |

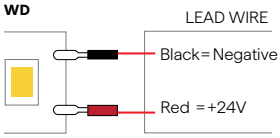
Solder lead wire onto solder pad. Confirm wires are matched up correctly before soldering. See wiring diagrams below for specific light engine details.

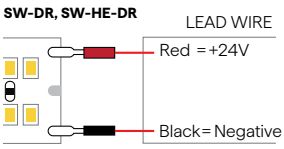
**NOTE:** Recommended soldering iron temperature of 650˚ – 700˚F for lead-free solder.



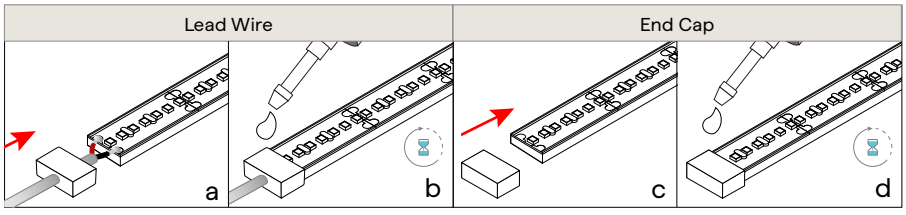




*Middle rail is optional 24V do not connect both 24V rails to power

**3**

**NOTE:**
Connect LED to power supply to ensure it is working properly and all non-factory soldered connections are secure before proceeding with step #3.




**ONCE ALL CONNECTIONS ARE FUNCTIONING PROPERLY, DISCONNECT POWER AND BEGIN HEAT SHRINKING INSTRUCTIONS BELOW:**

a: Place lead wire cap over wire

b: Add silicone inside connector and glue around the edge to secure gap; allow time for glue to dry.

c: Place end cap over the end of LED

d: Add silicone inside connector and glue around the edge to secure gap; allow time for glue to dry.

***NOTES:***

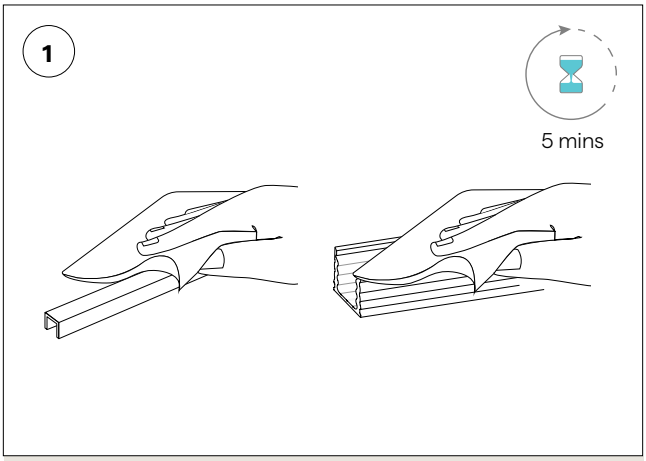
- *Avoid bending in sharp angles which may damage the LED.*
- *Always test LED operation before installing in extrusion. Connect LED to power supply to ensure it is working properly and all non-factory soldered connections are secure.*
- *Diagrams for representation only and not to scale.*



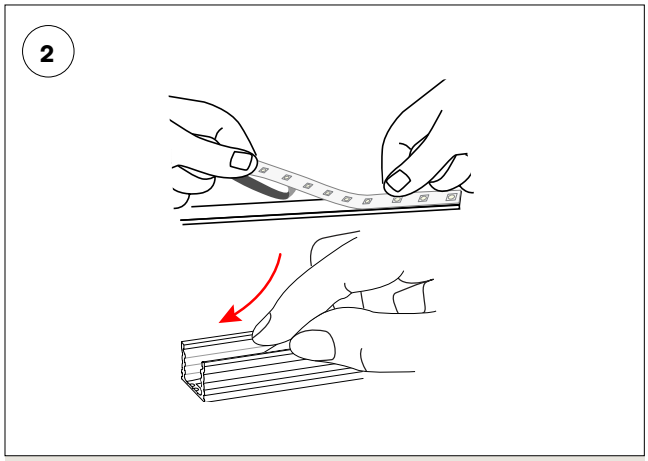
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## LED INSERTION FOR IN-FIELD ASSEMBLY INSTALLATION

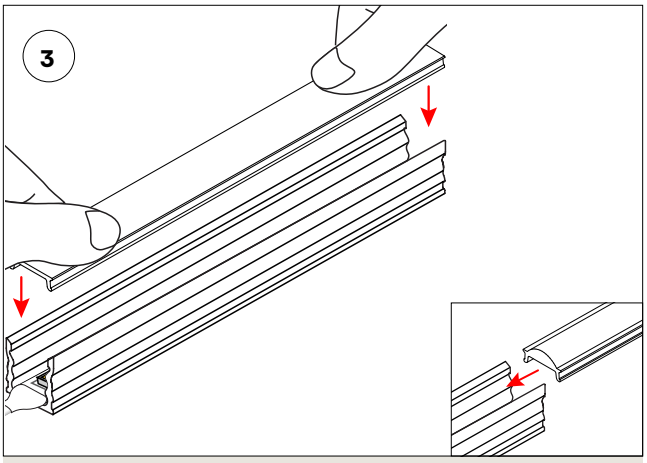
STRIP IN EXTRUSION




Using a 50/50 alcohol mix thoroughly clean, the surface of the extrusion and the multi-tray surface. Allow time to dry (about 5 minutes).

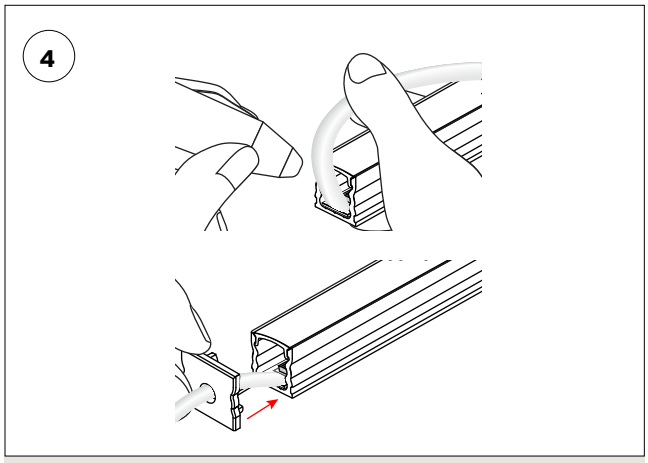



Gently place LED in extrusion/tray. Apply firm pressure to the bonding surface. This will reduce the chances of dust and debris from contaminating adhesive. The smallest amount of exposed adhesive is the best case.




**Flat Lenses:** Apply uniform pressure until the extrusion and lens snap securely together.

**Optical Lenses:** Starting from one end of the extrusion, slide the lens into the grooved lip of the extrusion until secured in place.




Add glue inside the end cap and glue around edges to secure end cap in place. Do not allow glue to come in contact with LED.

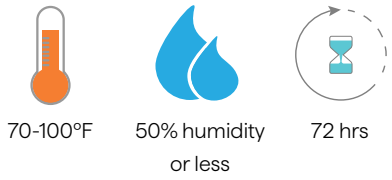


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## SURFACE MOUNTING METHOD

SURFACE PREPARATION

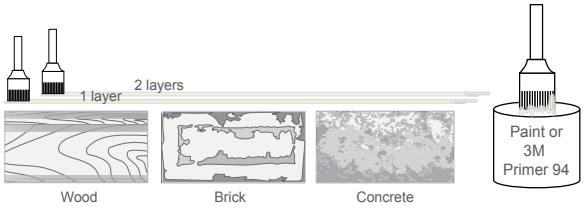
**1**




Temperature and environmental concerns:

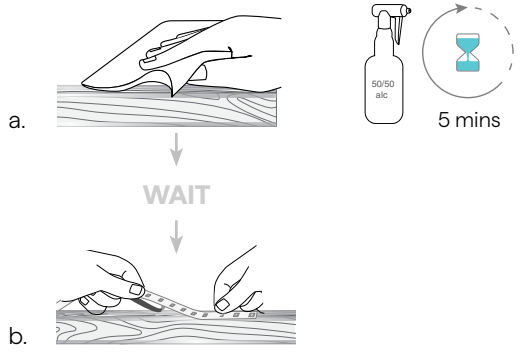
- Ideal application environment is 70-100°F in 50% humidity or less.
- Minimum application temperature: 50°F
- This temperature and humidity should be maintained for 72 hours after application for maximum bond strength.

**2**




For porous materials (Wood, Brick, Concrete etc.) apply two layers of paint or primer to the surface. This will help create a better bonding surface for these materials. These can be purchased from a local hardware store.

**3**




**a.** Using a 50/50 alcohol mix, thoroughly clean surface area where LED will be installed. Allow 5 minutes to dry.

**b.** Peel back 0.5" of the VHB tape's protective film on one end of LED and use firm pressure to adhere it to the desired surface, avoiding air bubbles. Continue peeling the film and adhering the strip in small sections until the entire length is installed.

| MATERIALS | SUGGESTED EPOXIES |
|---|---|
| Concrete, Stone, Cinderblock, Metal, and Brick | Loctite Metal and Concrete Two-Part Epoxy |
| ABS, Fiberglass, Plastic, and PVC | Loctite Plastic Two-Part Epoxy |
| Tile, Wood, Ceramic, Glass, or Metal | Loctite Clear Two-Part Epoxy |
| All Purpose | Strong Stik |



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# SW-HE24/6.0

Linear LED Strips Color Data

## 2000K

2055 K

**CRI:** 92.5

**CRI R9:** 58.8

**TM30 Rf:** 90.7

**TM30 Rg:** 101.3

**CQS:** 81.4

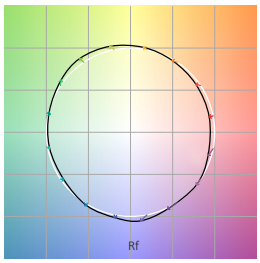
**X:** 0.521

**Y:** 0.413

**U:** 0.301

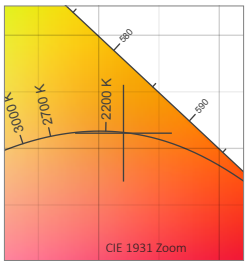
**V:** 0.358

**Δuv:** -0.0003










| R1 | R2 | R3 | R4 | R5 | R6 | R7 | R8 | R9 | R10 | R11 | R12 | R13 | R14 | R15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 93.1 | 96.6 | 97.1 | 93.1 | 92.5 | 97.3 | 90.5 | 79.8 | 58.8 | 90.0 | 94.9 | 88.3 | 94.2 | 96.6 | 87.9 |
| **Q1** | **Q2** | **Q3** | **Q4** | **Q5** | **Q6** | **Q7** | **Q8** | **Q9** | **Q10** | **Q11** | **Q12** | **Q13** | **Q14** | **Q15** |
| 77.9 | 84.9 | 81.8 | 82.0 | 83.0 | 80.2 | 77.7 | 80.1 | 87.5 | 84.6 | 84.5 | 84.1 | 83.9 | 79.1 | 78.2 |
| **C1** | **C2** | **C3** | **C4** | **C5** | **C6** | **C7** | **C8** | **C9** | **C10** | **C11** | **C12** | **C13** | **C14** | **C15** | **C16** |
| 90.4 | 89.4 | 88.4 | 92.2 | 93.7 | 91.1 | 90.3 | 93.4 | 94.7 | 92.7 | 91.0 | 89.7 | 90.3 | 74.8 | 88.1 | 86.0 |

| TM30 | | | |
|---|---|---|---|
| Hue Bin | $R_f$ | Chroma | Hue |
| 1 | 90 | -5% | 0% |
| 2 | 89 | -4% | 4% |
| 3 | 88 | -2% | 6% |
| 4 | 92 | 2% | 5% |
| 5 | 94 | 5% | 4% |
| 6 | 91 | 6% | 1% |
| 7 | 90 | 3% | -6% |
| 8 | 93 | -1% | -5% |
| 9 | 95 | -2% | -1% |
| 10 | 93 | -3% | 3% |
| 11 | 91 | 1% | 5% |
| 12 | 90 | 3% | 3% |
| 13 | 90 | 5% | -9% |
| 14 | 75 | 0% | -14% |
| 15 | 88 | 0% | -8% |
| 16 | 86 | -4% | -9% |

## 2200K

2267 K

**CRI:** 96.0

**CRI R9:** 87.8

**TM30 Rf:** 91.5

**TM30 Rg:** 97.1

**CQS:** 88.0

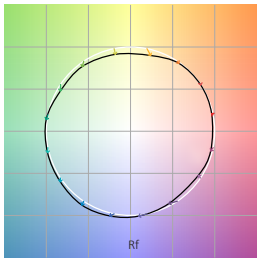
**X:** 0.500

**Y:** 0.417

**U:** 0.286

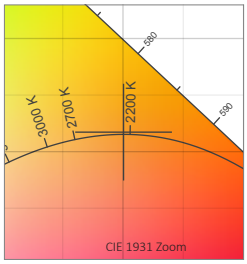
**V:** 0.357

**Δuv:** 0.0006










| R1 | R2 | R3 | R4 | R5 | R6 | R7 | R8 | R9 | R10 | R11 | R12 | R13 | R14 | R15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 97.3 | 97.4 | 98.9 | 96.1 | 96.2 | 92.6 | 95.1 | 93.9 | 87.8 | 95.9 | 92.0 | 87.5 | 96.7 | 98.2 | 97.8 |
| **Q1** | **Q2** | **Q3** | **Q4** | **Q5** | **Q6** | **Q7** | **Q8** | **Q9** | **Q10** | **Q11** | **Q12** | **Q13** | **Q14** | **Q15** |
| 84.2 | 87.5 | 91.8 | 92.5 | 91.4 | 88.9 | 88.1 | 87.3 | 85.7 | 84.6 | 87.8 | 89.0 | 91.1 | 90.4 | 88.0 |
| **C1** | **C2** | **C3** | **C4** | **C5** | **C6** | **C7** | **C8** | **C9** | **C10** | **C11** | **C12** | **C13** | **C14** | **C15** | **C16** |
| 93.6 | 95.7 | 93.3 | 87.5 | 92.3 | 91.2 | 88.3 | 91.3 | 90.1 | 92.9 | 92.6 | 90.5 | 90.7 | 84.5 | 92.7 | 91.5 |

| TM30 | | | |
|---|---|---|---|
| Hue Bin | $R_f$ | Chroma | Hue |
| 1 | 94 | -1% | 2% |
| 2 | 96 | 0% | 0% |
| 3 | 93 | -1% | -3% |
| 4 | 87 | -7% | -6% |
| 5 | 92 | -7% | 0% |
| 6 | 91 | -4% | 5% |
| 7 | 88 | -4% | 6% |
| 8 | 91 | 1% | 6% |
| 9 | 90 | 2% | 6% |
| 10 | 93 | 3% | 3% |
| 11 | 93 | 5% | 1% |
| 12 | 91 | 3% | -5% |
| 13 | 91 | 1% | -10% |
| 14 | 84 | -3% | -10% |
| 15 | 93 | -4% | 1% |
| 16 | 91 | -2% | -4% |

## 2400K

2488 K

**CRI:** 95.8

**CRI R9:** 93.0

**TM30 Rf:** 92.2

**TM30 Rg:** 98.9

**CQS:** 92.8

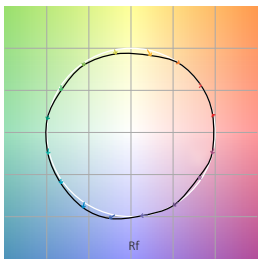
**X:** 0.476

**Y:** 0.410

**U:** 0.273

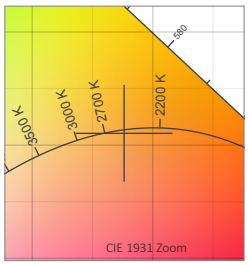
**V:** 0.353

**Δuv:** -0.0011










| R1 | R2 | R3 | R4 | R5 | R6 | R7 | R8 | R9 | R10 | R11 | R12 | R13 | R14 | R15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 96.3 | 96.4 | 98.8 | 96.7 | 95.5 | 91.9 | 95.2 | 95.6 | 93.0 | 93.9 | 93.4 | 84.5 | 95.7 | 98.8 | 98.5 |
| **Q1** | **Q2** | **Q3** | **Q4** | **Q5** | **Q6** | **Q7** | **Q8** | **Q9** | **Q10** | **Q11** | **Q12** | **Q13** | **Q14** | **Q15** |
| 87.8 | 92.1 | 95.5 | 94.4 | 93.0 | 92.4 | 94.9 | 95.8 | 94.5 | 94.7 | 94.6 | 94.9 | 95.9 | 92.1 | 90.8 |
| **C1** | **C2** | **C3** | **C4** | **C5** | **C6** | **C7** | **C8** | **C9** | **C10** | **C11** | **C12** | **C13** | **C14** | **C15** | **C16** |
| 93.7 | 96.3 | 95.4 | 88.7 | 93.9 | 94.5 | 91.1 | 93.9 | 90.0 | 92.0 | 91.3 | 89.9 | 90.5 | 90.0 | 92.5 | 91.0 |

| TM30 | | | |
|---|---|---|---|
| Hue Bin | $R_f$ | Chroma | Hue |
| 1 | 94 | -1% | 2% |
| 2 | 96 | 0% | 0% |
| 3 | 95 | 0% | -2% |
| 4 | 89 | -6% | -5% |
| 5 | 94 | -5% | -1% |
| 6 | 94 | -2% | 3% |
| 7 | 91 | -3% | 5% |
| 8 | 94 | 1% | 4% |
| 9 | 90 | 2% | 6% |
| 10 | 92 | 3% | 4% |
| 11 | 91 | 6% | 2% |
| 12 | 90 | 5% | -5% |
| 13 | 90 | -1% | -8% |
| 14 | 90 | 0% | -6% |
| 15 | 93 | -4% | 1% |
| 16 | 91 | -1% | -6% |

**NOTES:**
- CRI R values, only R1-R8 are used to calculate RA CRI values
- TM30 C values, 16 binned values out of total of 99 C values
- CQS Q values
- Data subject to change, all data has +/- 5% tolerance

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Specification subject to change. Rev-03-11-24

# SW-HE24/6.0

Linear LED Strips Color Data

## 2700K

2785 K

**CRI:** 97.4

**CRI R9:** 93.5

**TM30 Rf:** 93.7

**TM30 Rg:** 99.6

**CQS:** 95.0

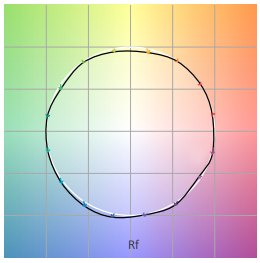
**X:** 0.452

**Y:** 0.406

**U:** 0.259

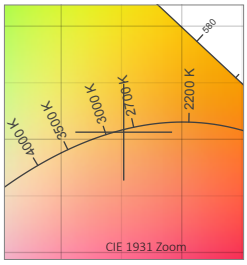
**V:** 0.350

**Δuv:** -0.0009










| R1 | R2 | R3 | R4 | R5 | R6 | R7 | R8 | R9 | R10 | R11 | R12 | R13 | R14 | R15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 97.6 | 98.3 | 98.6 | 98.3 | 97.6 | 95.6 | 96.8 | 96.6 | 93.5 | 98.3 | 96.0 | 85.7 | 97.4 | 97.9 | 98.5 |
| **Q1** | **Q2** | **Q3** | **Q4** | **Q5** | **Q6** | **Q7** | **Q8** | **Q9** | **Q10** | **Q11** | **Q12** | **Q13** | **Q14** | **Q15** |
| 91.4 | 95.4 | 94.1 | 93.6 | 94.6 | 96.0 | 96.7 | 97.0 | 97.7 | 97.9 | 97.5 | 97.2 | 97.7 | 95.0 | 93.9 |
| **C1** | **C2** | **C3** | **C4** | **C5** | **C6** | **C7** | **C8** | **C9** | **C10** | **C11** | **C12** | **C13** | **C14** | **C15** | **C16** |
| 95.0 | 97.3 | 96.5 | 92.4 | 95.2 | 96.9 | 91.5 | 96.4 | 92.6 | 91.0 | 91.9 | 92.2 | 93.3 | 92.6 | 92.8 | 90.6 |

| TM30 | | | |
|---|---|---|---|
| Hue Bin | $R_f$ | Chroma | Hue |
| 1 | 95 | -1% | 1% |
| 2 | 97 | 0% | 0% |
| 3 | 96 | 0% | -1% |
| 4 | 92 | -4% | -3% |
| 5 | 95 | -4% | 0% |
| 6 | 97 | -1% | 2% |
| 7 | 91 | -3% | 4% |
| 8 | 96 | 0% | 2% |
| 9 | 93 | 1% | 5% |
| 10 | 91 | 2% | 6% |
| 11 | 92 | 4% | 5% |
| 12 | 92 | 4% | -2% |
| 13 | 93 | 1% | -5% |
| 14 | 93 | 2% | -5% |
| 15 | 93 | -3% | 1% |
| 16 | 91 | 1% | -7% |

## 3000K

3118 K

**CRI:** 97.8

**CRI R9:** 94.6

**TM30 Rf:** 92.9

**TM30 Rg:** 99.4

**CQS:** 94.9

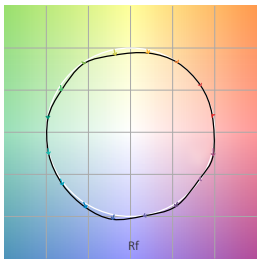
**X:** 0.428

**Y:** 0.399

**U:** 0.247

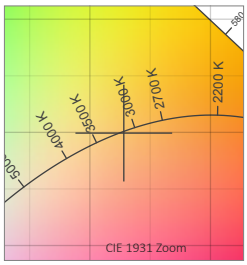
**V:** 0.345

**Δuv:** -0.0006










| R1 | R2 | R3 | R4 | R5 | R6 | R7 | R8 | R9 | R10 | R11 | R12 | R13 | R14 | R15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 98.3 | 98.9 | 98.1 | 98.7 | 97.9 | 96.7 | 97.0 | 96.8 | 94.6 | 99.9 | 98.2 | 81.3 | 98.3 | 97.9 | 97.9 |
| **Q1** | **Q2** | **Q3** | **Q4** | **Q5** | **Q6** | **Q7** | **Q8** | **Q9** | **Q10** | **Q11** | **Q12** | **Q13** | **Q14** | **Q15** |
| 91.3 | 96.2 | 92.6 | 91.7 | 93.3 | 95.5 | 97.2 | 97.5 | 97.8 | 98.1 | 98.3 | 98.2 | 98.5 | 96.0 | 94.4 |
| **C1** | **C2** | **C3** | **C4** | **C5** | **C6** | **C7** | **C8** | **C9** | **C10** | **C11** | **C12** | **C13** | **C14** | **C15** | **C16** |
| 94.6 | 97.1 | 96.7 | 92.8 | 92.4 | 96.7 | 90.3 | 95.8 | 91.1 | 88.2 | 90.2 | 91.6 | 94.2 | 92.4 | 91.0 | 89.9 |

| TM30 | | | |
|---|---|---|---|
| Hue Bin | $R_f$ | Chroma | Hue |
| 1 | 95 | -1% | 1% |
| 2 | 97 | 0% | 0% |
| 3 | 97 | 0% | 0% |
| 4 | 93 | -4% | -3% |
| 5 | 92 | -7% | 0% |
| 6 | 97 | -1% | 1% |
| 7 | 90 | -4% | 5% |
| 8 | 96 | -1% | 3% |
| 9 | 91 | 0% | 6% |
| 10 | 88 | 2% | 7% |
| 11 | 90 | 4% | 6% |
| 12 | 92 | 6% | -1% |
| 13 | 94 | 1% | -4% |
| 14 | 92 | 3% | -5% |
| 15 | 91 | -1% | -1% |
| 16 | 90 | 2% | -8% |

## 3500K

3560 K

**CRI:** 97.6

**CRI R9:** 94.0

**TM30 Rf:** 92.2

**TM30 Rg:** 99.2

**CQS:** 95.2

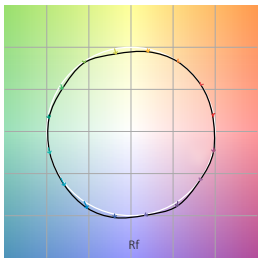
**X:** 0.401

**Y:** 0.387

**U:** 0.235

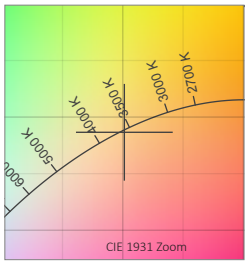
**V:** 0.339

**Δuv:** -0.0009










| R1 | R2 | R3 | R4 | R5 | R6 | R7 | R8 | R9 | R10 | R11 | R12 | R13 | R14 | R15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 98.7 | 99.6 | 97.5 | 97.8 | 97.3 | 96.6 | 96.9 | 96.4 | 94.0 | 98.1 | 98.6 | 76.6 | 99.2 | 97.7 | 97.2 |
| **Q1** | **Q2** | **Q3** | **Q4** | **Q5** | **Q6** | **Q7** | **Q8** | **Q9** | **Q10** | **Q11** | **Q12** | **Q13** | **Q14** | **Q15** |
| 92.6 | 98.0 | 91.2 | 89.9 | 92.8 | 95.6 | 97.6 | 98.1 | 98.6 | 98.4 | 98.2 | 99.1 | 99.3 | 97.5 | 95.9 |
| **C1** | **C2** | **C3** | **C4** | **C5** | **C6** | **C7** | **C8** | **C9** | **C10** | **C11** | **C12** | **C13** | **C14** | **C15** | **C16** |
| 94.1 | 96.8 | 96.2 | 93.0 | 91.5 | 96.8 | 92.2 | 94.1 | 90.4 | 86.4 | 87.6 | 92.0 | 94.9 | 92.0 | 90.6 | 90.2 |

| TM30 | | | |
|---|---|---|---|
| Hue Bin | $R_f$ | Chroma | Hue |
| 1 | 94 | -1% | 1% |
| 2 | 97 | 0% | 0% |
| 3 | 96 | 0% | 0% |
| 4 | 93 | -3% | -2% |
| 5 | 91 | -6% | -1% |
| 6 | 97 | -1% | 1% |
| 7 | 92 | -4% | 4% |
| 8 | 94 | -2% | 3% |
| 9 | 90 | 0% | 7% |
| 10 | 86 | 1% | 9% |
| 11 | 88 | 5% | 7% |
| 12 | 92 | 4% | 1% |
| 13 | 95 | 1% | -3% |
| 14 | 92 | 4% | -4% |
| 15 | 91 | 0% | -3% |
| 16 | 90 | 1% | -5% |

**NOTES:**
- CRI R values, only R1-R8 are used to calculate RA CRI values
- TM30 C values, 16 binned values out of total of 99 C values
- CQS Q values
- Data subject to change, all data has +/- 5% tolerance

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Specification subject to change. Rev-03-11-24

# SW-HE24/6.0

Linear LED Strips Color Data

## 4000K

4105 K

**CRI:** 97.0

**CRI R9:** 98.4

**TM30 Rf:** 91.1

**TM30 Rg:** 98.4

**CQS:** 94.1

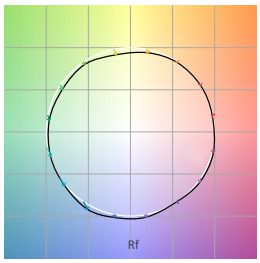
**X:** 0.376

**Y:** 0.375

**U:** 0.223

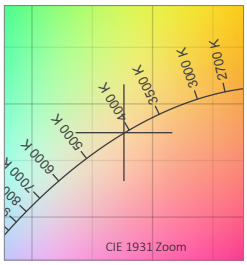
**V:** 0.333

**Δuv:** 0.0002










| R1 | R2 | R3 | R4 | R5 | R6 | R7 | R8 | R9 | R10 | R11 | R12 | R13 | R14 | R15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 98.4 | 99.7 | 97.0 | 95.9 | 95.9 | 95.8 | 96.7 | 96.6 | 98.4 | 96.8 | 96.9 | 70.8 | 99.1 | 97.7 | 95.7 |
| **Q1** | **Q2** | **Q3** | **Q4** | **Q5** | **Q6** | **Q7** | **Q8** | **Q9** | **Q10** | **Q11** | **Q12** | **Q13** | **Q14** | **Q15** |
| 91.1 | 97.7 | 90.0 | 87.4 | 90.4 | 92.8 | 97.7 | 98.2 | 98.3 | 98.4 | 98.2 | 99.4 | 99.8 | 98.3 | 95.7 |
| **C1** | **C2** | **C3** | **C4** | **C5** | **C6** | **C7** | **C8** | **C9** | **C10** | **C11** | **C12** | **C13** | **C14** | **C15** | **C16** |
| 93.6 | 96.3 | 95.9 | 91.6 | 89.9 | 94.9 | 91.6 | 90.4 | 86.8 | 85.1 | 86.0 | 93.6 | 93.4 | 94.4 | 89.2 | 89.3 |

| TM30 | | | |
|---|---|---|---|
| Hue Bin | $R_f$ | Chroma | Hue |
| 1 | 94 | -1% | 1% |
| 2 | 96 | 0% | 0% |
| 3 | 96 | -1% | 0% |
| 4 | 92 | -4% | -2% |
| 5 | 90 | -7% | -1% |
| 6 | 95 | -3% | 1% |
| 7 | 92 | -5% | 3% |
| 8 | 90 | -3% | 5% |
| 9 | 87 | -1% | 10% |
| 10 | 85 | 0% | 10% |
| 11 | 86 | 5% | 9% |
| 12 | 94 | 3% | 1% |
| 13 | 93 | 3% | -2% |
| 14 | 94 | 0% | -1% |
| 15 | 89 | 2% | -4% |
| 16 | 89 | 1% | -5% |

**NOTES:**
- CRI R values, only R1-R8 are used to calculate RA CRI values
- TM30 C values, 16 binned values out of total of 99 C values
- CQS Q values
- Data subject to change, all data has +/- 5% tolerance

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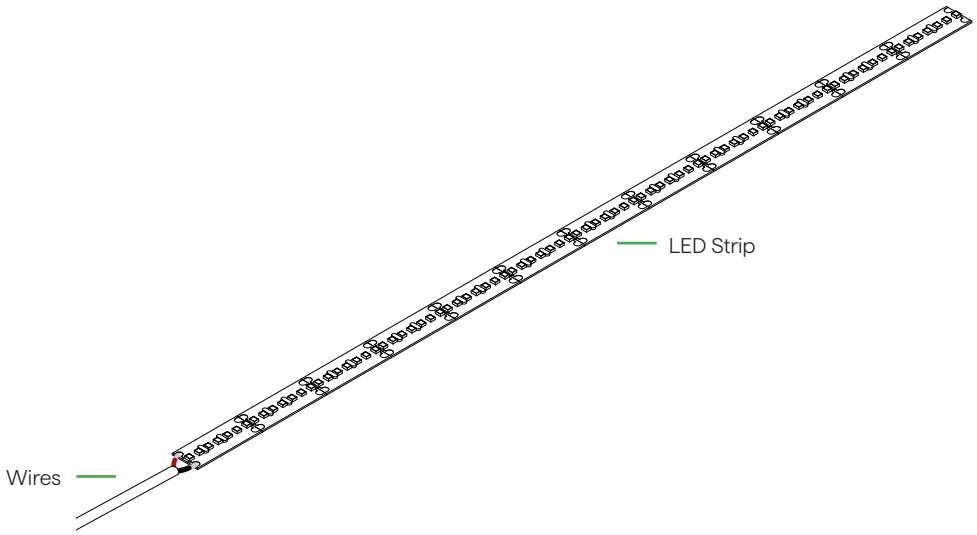
Specification subject to change. Rev-03-11-24

# MATERIAL RECYCLING

LINEAR LED STRIPS

You may be done with your products, but chances are they still have more to give. Follow these instructions to break down and sort recyclable components. Check with local recycling collection to ensure they accept the materials listed below.

Additionally, Q-Tran offers a Takeback Program. Contact factory for information.




E

LED Strips
Wires

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