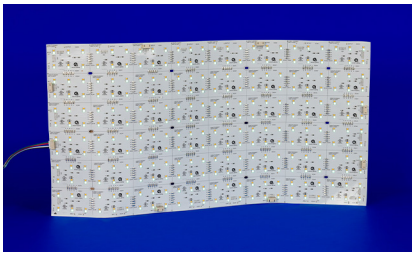
# Q-SHEETS RGBW

24VDC Dimmable Flexible Sheet



- Provide even illumination
- Easy to install and field modifiable
- Dimmable with compatible QTL DC power supplies
- Max number of sheets per 96W circuit: 2 sheets
- 3 step MacAdam ellipse binning
- UL Listed

| 1 PRODUCT | 2 WATTAGE | 3 RATED | 4 CCT | 5 QUANTITY |
|---|---|---|---|---|
| **QS24** | **46W** | | | |

Sample Part Number: **QS24-46W-DRY-RGBW-30-2**

### 1 PRODUCT

**QS24**

See last page for compatible power supplies.

### 2 WATTAGE

**46W**

### 3 RATED

| | |
|---|---|
| **DRY** | IP20 |
| **DMP** | IP54 |

### 4 CCT

| | |
|---|---|
| **RGBW-22** | RGBW 2200K |
| **RGBW-25** | RGBW 2500K |
| **RGBW-27** | RGBW 2700K |
| **RGBW-30** | RGBW 3000K |
| **RGBW-35** | RGBW 3500K |
| **RGBW-40** | RGBW 4000K |
| **RGBW-50** | RGBW 5000K |
| **RGBW-62** | RGBW 6200K |

### 5 QUANTITY

Sold in individual sheets

Field modifications must comply with QTL's installation methods otherwise warranty is null & void | All data has +/- 10% tolerance | Warranty only valid with QTL power supplies | 3 year warranty

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# Q-SHEETS RGBW

24VDC Dimmable Flexible Sheet

## 4 CCT – DELIVERED LUMENS

**46W**
[Calculated L70 = 54000 hrs]

| CCT | Lm/Sheet | Lm/Segment | Lm/Sq. Ft | Luminous Efficacy | Wavelength (nm) | Circuit Wattage/Sheet |
|---|---|---|---|---|---|---|
| Red | 431 | 9 | 216 | 39 Lm/W | 631 | 10.99 |
| Green | 1267 | 26 | 634 | 101 Lm/W | 519 | 12.53 |
| Blue | 260 | 5 | 130 | 22 Lm/W | 463 | 11.78 |

| CCT | Lm/Sheet | Lm/Segment | Lm/Sq. Ft | Luminous Efficacy | CRI Ra | CRI R9 | TM30 Rf | TM30 Rg | Circuit Wattage/Sheet |
|---|---|---|---|---|---|---|---|---|---|
| 2200K | 974 | 20 | 487 | 81 Lm/W | 96 | 88 | 96 | 102 | 11.98 |
| 2500K | 1031 | 21 | 516 | 86 Lm/W | 96 | 97 | 95 | 102 | 11.93 |
| 2700K | 1167 | 24 | 584 | 96 Lm/W | 96 | 97 | 93 | 100 | 12.1 |
| 3000K | 1173 | 24 | 587 | 98 Lm/W | 98 | 99 | 95 | 102 | 11.93 |
| 3500K | 1195 | 25 | 598 | 100 Lm/W | 97 | 91 | 94 | 101 | 11.98 |
| 4000K | 1200 | 25 | 600 | 100 Lm/W | 97 | 91 | 93 | 100 | 11.98 |
| 5000K | 1282 | 27 | 641 | 107 Lm/W | 97 | 86 | 94 | 101 | 11.98 |
| 6200K | 1233 | 26 | 617 | 103 Lm/W | 97 | 91 | 91 | 99 | 11.98 |




## TEMPERATURE RATINGS

| | | Min | Max |
|---|---|---|---|
| DRY | Ambient Operating Temp | -4°F | 110°F |
| | Storage Temp | -4°F | 140°F |
| | Installation Temp | -50°F | 100°F |
| DMP | Ambient Operating Temp | -4°F | 105°F |
| | Storage Temp | -4°F | 140°F |
| | Installation Temp | -50°F | 100°F |

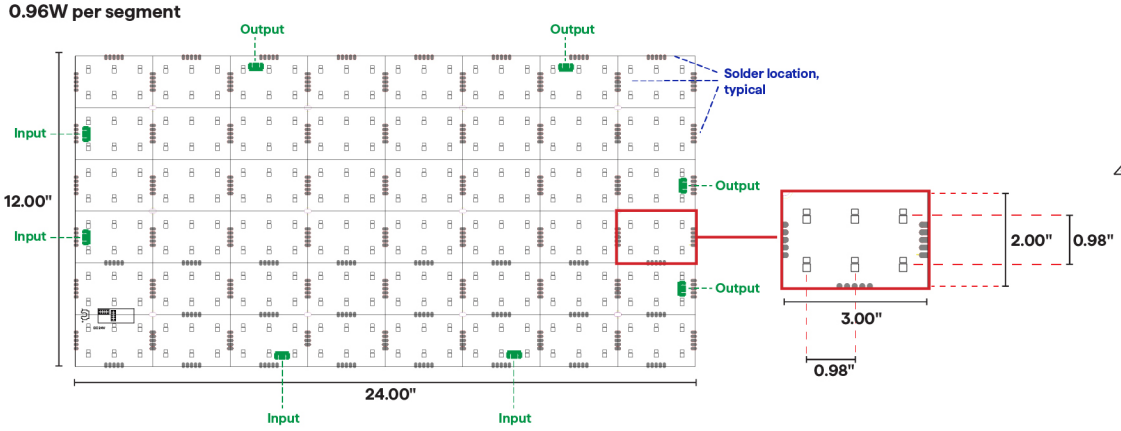
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# Q-SHEETS RGBW

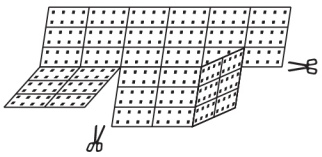
24VDC Dimmable Flexible Sheet

## DIMENSIONS

**46W per sheet**
**0.96W per segment**




**NOTE:**
Field cuttable at designated lines indicated on the LED sheet.

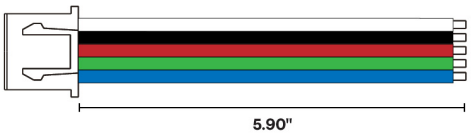


**Q-SHEET THICKNESS**

| PCB | LED CHIPS - SW | LED CHIPS - RGB | CONNECTORS |
|---|---|---|---|
| 0.0225" | 0.0560" | 0.0985" | 0.2510" |

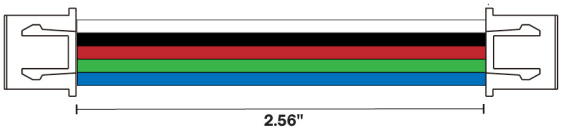
## CONNECTORS

**QS-LEAD-RGBW**




Sold in packs of 5

**QS-EXTEND-RGBW**




Sold in packs of 5

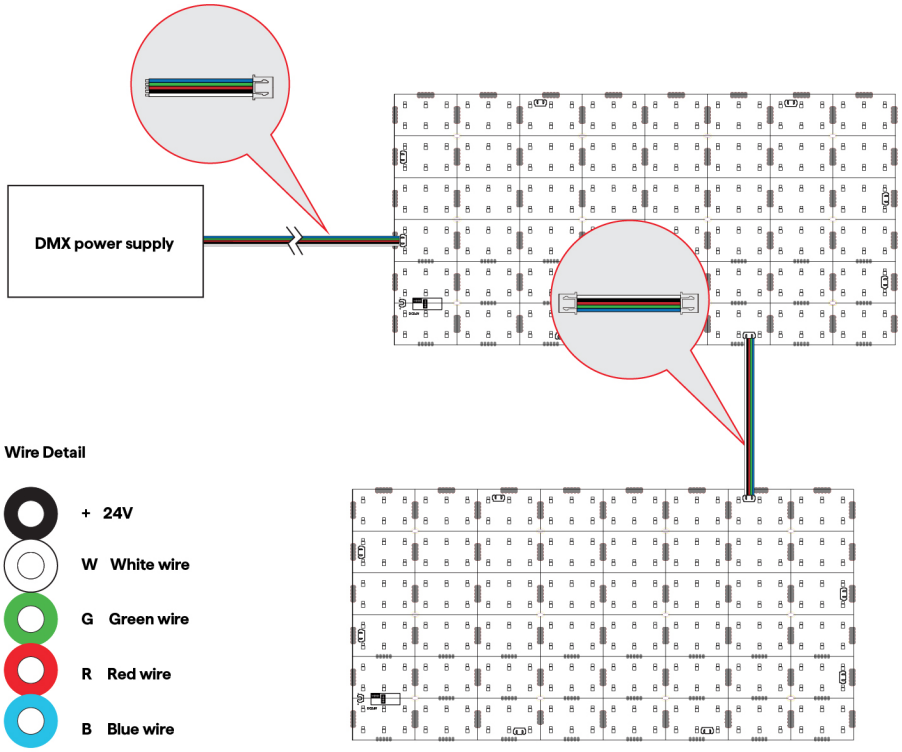
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Specification subject to change. Rev-08-05-26

# Q-SHEETS RGBW

24VDC Dimmable Flexible Sheet

## CONNECTION DIAGRAM




**NOTE:**

- Ensure the connection from power supply goes to a connection marked input
- When jumping to additional sheet, ensure sheets are in same orientation
- Ensure the jumper connection of initial sheet is on an output connector and the jumper connection of additional sheet is on input connector
- Ensure polarity is correct. If the sheets are not in the same orientation, positive terminals will not align between sheets and sheet will not function as intended

## COMPATIBLE POWER SUPPLIES

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

| DIM TO LEVEL | INDOOR |
|---|---|
| | Q-SHEETS RGBW |
| 0.1% | QT-CAB-eLED+DALI-DT8<br>QT-CAB-eLED+DMX<br>QTM-eLED+DALI-DT8<br>QZ-DMX |
| 1% | QZ-DALI-DT8 |
| 10% | Non-Dim Power Supply with RGBW App Dongle |

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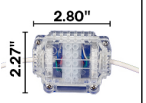
# Q-SHEETS RGBW

24VDC Dimmable Flexible Sheet

| DIMMING PROTOCOL | INDOOR |
|---|---|
| | Q-SHEETS RGBW |
| DMX | QZ-DMX |
| DALI-2: DT8 | QT-CAB-eLED+DALI-DT8<br>QTM-eLED+DALI-DT8<br>QZ-DALI-DT8 |
| SCENE App Dimmed | Non-Dim Power Supply with RGBW App Dongle |

## COMPATIBLE ACCESSORIES

**Q-mini-J5**




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

**SCENE APP DONGLE**




Wi-Fi or Bluetooth Connectivity

**QS-LEAD-RGBW**



Lead Connector

**QS-EXTEND-RGBW**



Jumper Connector

## COMPATIBLE APPS

**NFC APP**

Q-NFC

Read and write DMX addresses and adjust voltage

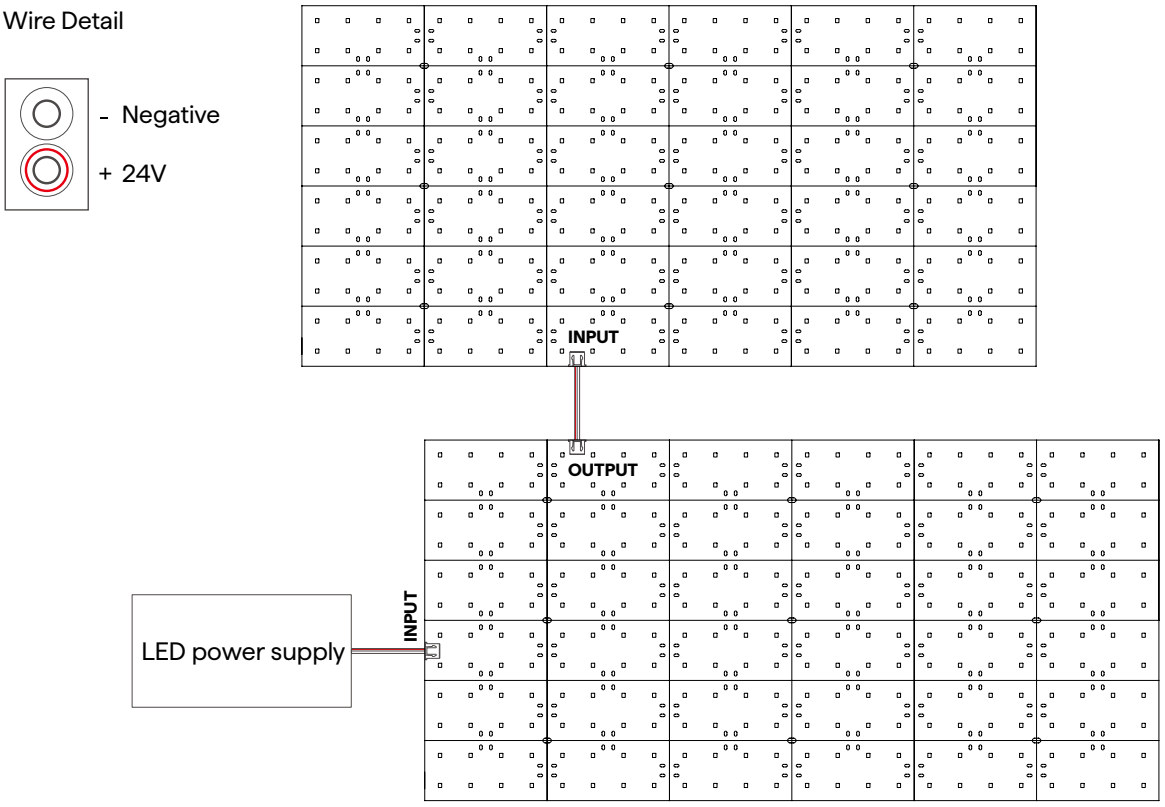
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# Q-SHEET

Flexible LED Panels Installation Instructions

## CONNECTION DIAGRAMS

### STATIC WHITE



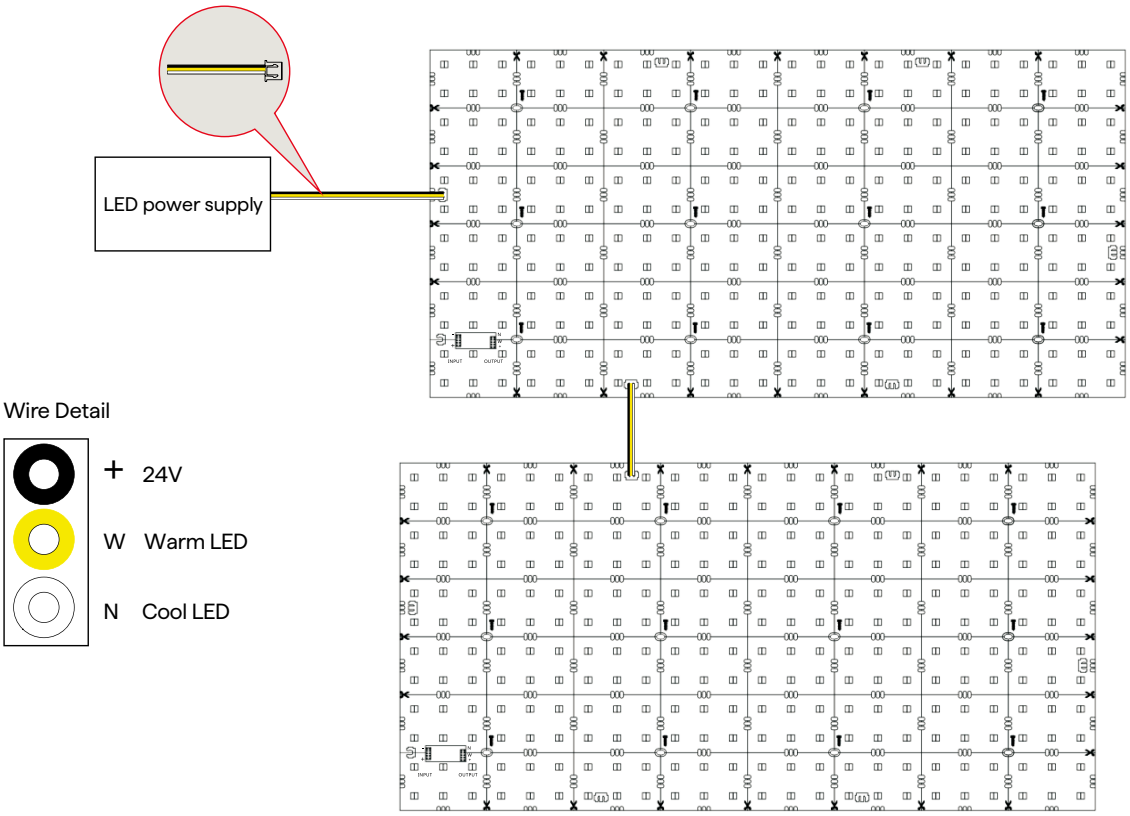

**NOTE:**

- Ensure the connection from power supply goes to a connection marked input
- When jumping to additional sheet, ensure panels are in same orientation
- Ensure the jumper connection of initial sheet is on an output connector and the jumper connection of additional sheet is on input connector
- Ensure polarity is correct. If the sheets are not in the same orientation, positive terminals will not align between sheets and sheet will not function as intended
- Additional wire back to power supply should be 18AWG or larger
- Length of cable back to power supply should not exceed 78"

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## CONNECTION DIAGRAMS

### DYNAMIC WHITE



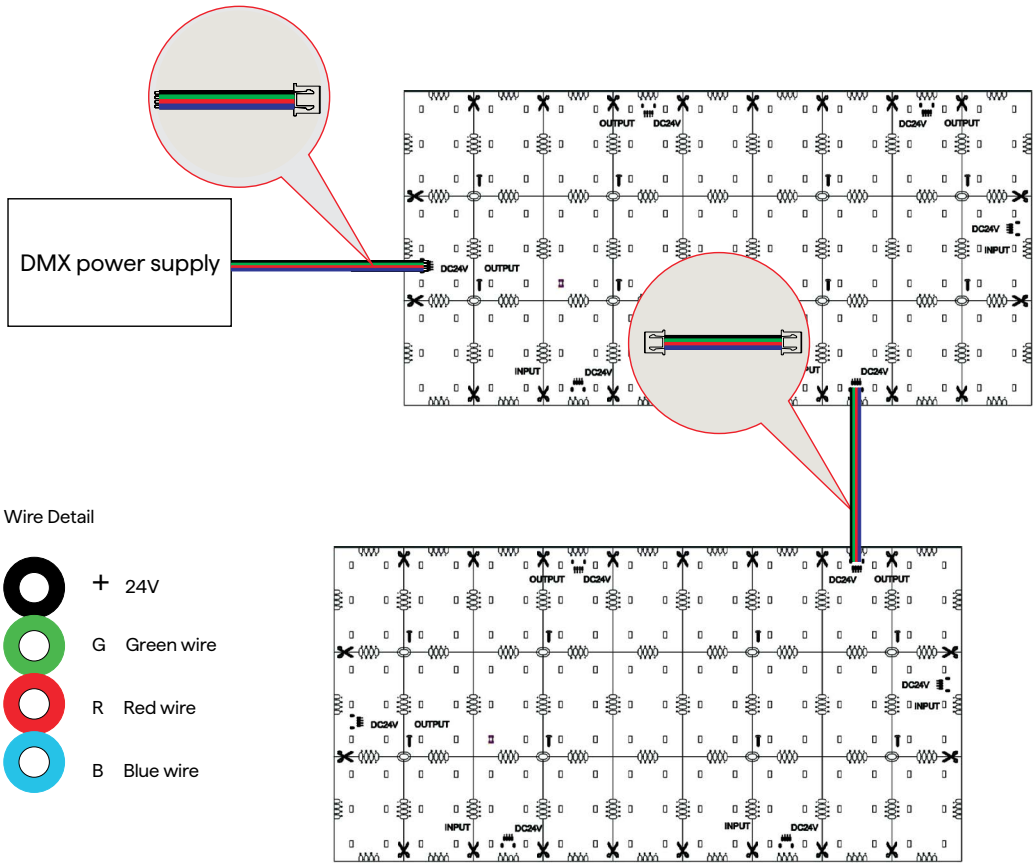

**NOTE:**

- Ensure the connection from power supply goes to a connection marked input
- When jumping to additional sheet, ensure panels are in same orientation
- Ensure the jumper connection of initial sheet is on an output connector and the jumper connection of additional sheet is on input connector
- Ensure polarity is correct. If the sheets are not in the same orientation, positive terminals will not align between sheets and sheet will not function as intended
- Additional wire back to power supply should be 18AWG or larger
- Length of cable back to power supply should not exceed 78"

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## CONNECTION DIAGRAMS

**RGB**



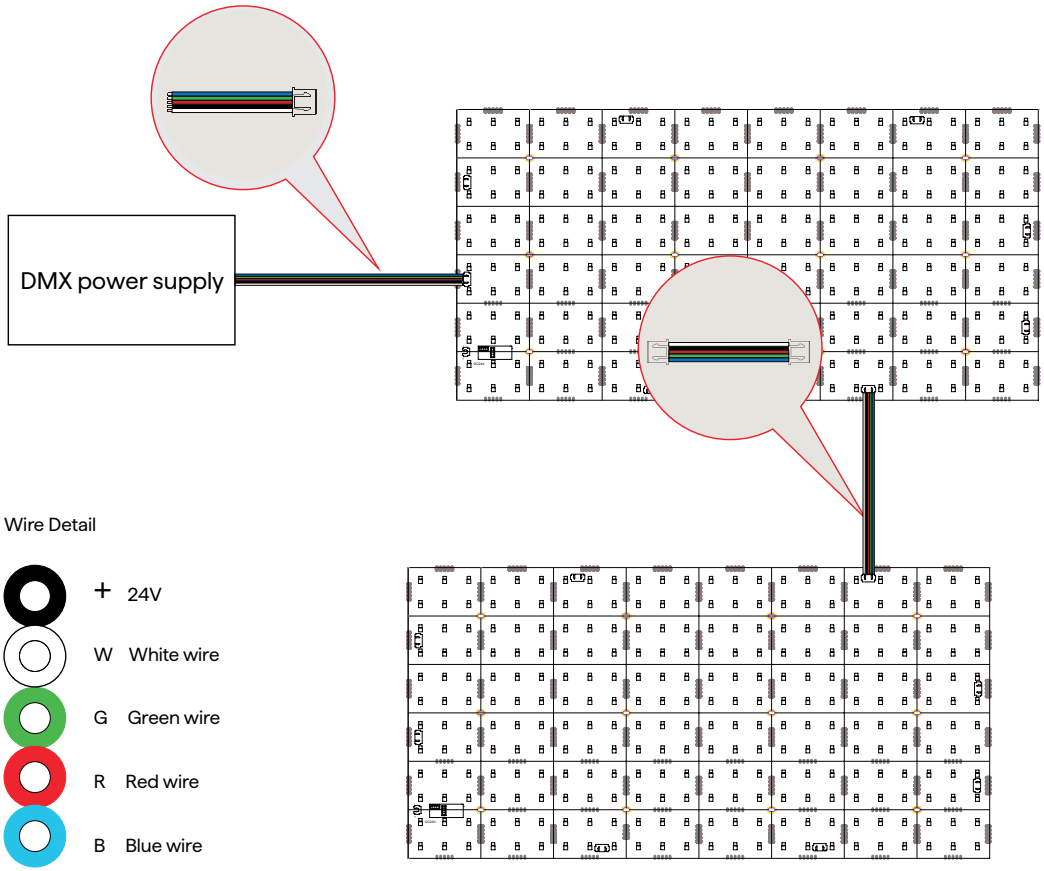

**NOTE:**

- Ensure the connection from power supply goes to a connection marked input
- When jumping to additional sheet, ensure panels are in same orientation
- Ensure the jumper connection of initial sheet is on an output connector and the jumper connection of additional sheet is on input connector
- Ensure polarity is correct. If the sheets are not in the same orientation, positive terminals will not align between sheets and sheet will not function as intended
- Additional wire back to power supply should be 18AWG or larger
- Length of cable back to power supply should not exceed 78"

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## CONNECTION DIAGRAMS

**RGBW**




**NOTE:**

- Ensure the connection from power supply goes to a connection marked input
- When jumping to additional sheet, ensure panels are in same orientation
- Ensure the jumper connection of initial sheet is on an output connector and the jumper connection of additional sheet is on input connector
- Ensure polarity is correct. If the sheets are not in the same orientation, positive terminals will not align between sheets and sheet will not function as intended
- Additional wire back to power supply should be 18AWG or larger
- Length of cable back to power supply should not exceed 78"

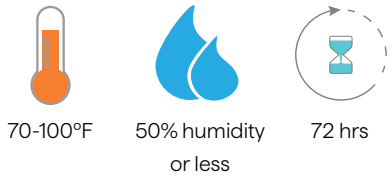
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## MOUNTING

SURFACE MOUNTING METHOD: **VHB ADHESIVE MOUNT**

SURFACE PREPARATION

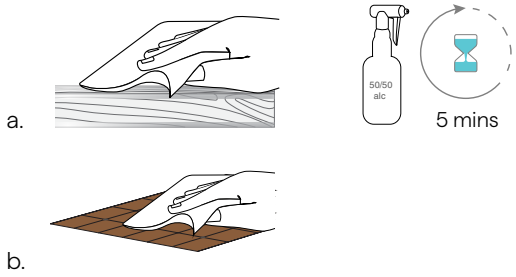
1




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 holding force.

2



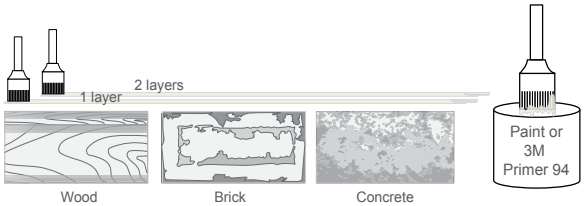

Using a 50/50 alcohol mix thoroughly clean:

**a.** Surface area where LEDs Sheet will be installed

**b.** The backside of LEDs Sheet

Allow alcohol to dry for 5 minutes.

3




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. This can be purchased from local hardware store.

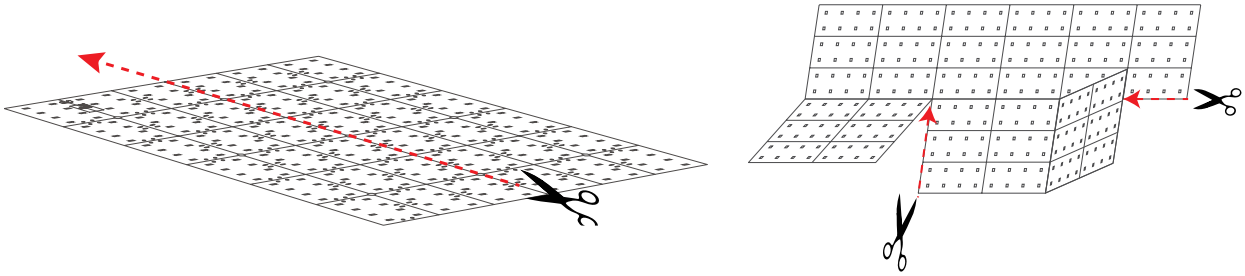
| MATERIALS | SUGGESTED EPOXIES |
|---|---|
| Concrete, Stone, Cinderblock, Metal and Brick | Loctite Metal and Concrete Two-Part Epoxy |
| ABS, Fiberglass, Plastic and PVC | Loctite Plastic Two-Part Epoxy |
| Tile, Wood, Ceramic, Glass, or Metal | Loctite Clear Two-Part Epoxy |
| All Purpose | Strong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

**NOTES:** EPOXY ALTERNATIVE: For improved bonding performance, apply a small amount of epoxy at each end to increase holding force. Refer to table for suggested epoxies. All are available at your local hardware store. Please follow all manufacturer instructions for suggested epoxy.

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SURFACE MOUNTING METHOD: **VHB ADHESIVE MOUNT**

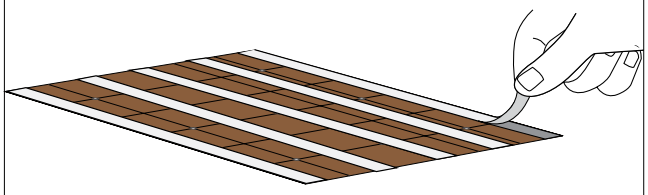
1



Cut panel to desired size, if needed.

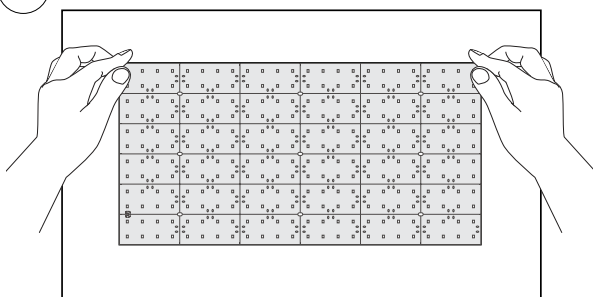
NOTE: Field cuttable at designated lines indicated on the LED sheet.

2



Remove the backing from the adhesive located on the underside of the LEDs sheet.

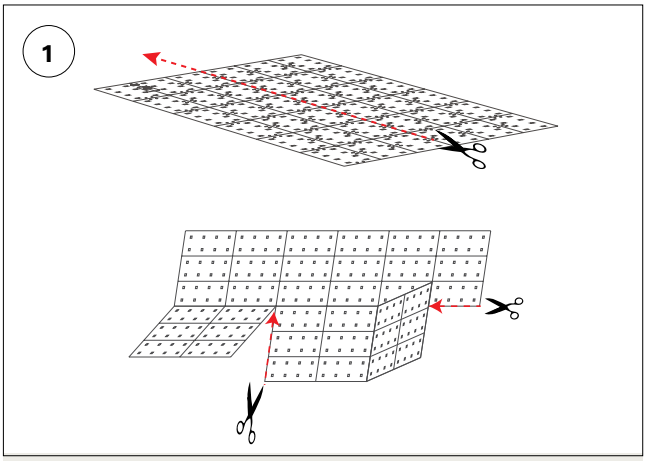
3



Apply firm even pressure when adhering the LEDs sheet in place.

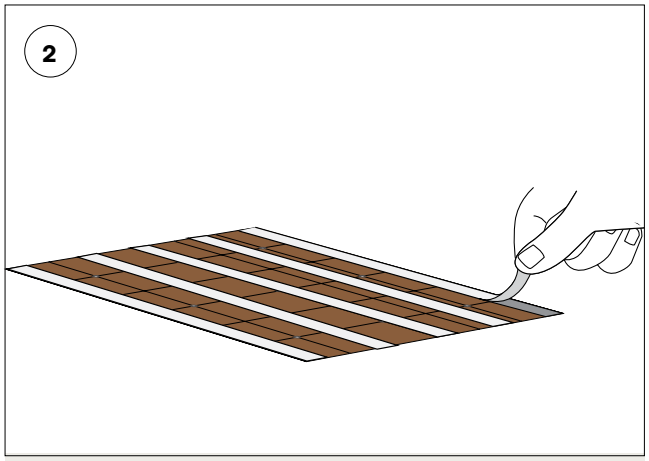
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SURFACE MOUNTING METHOD: **SCREW MOUNT**

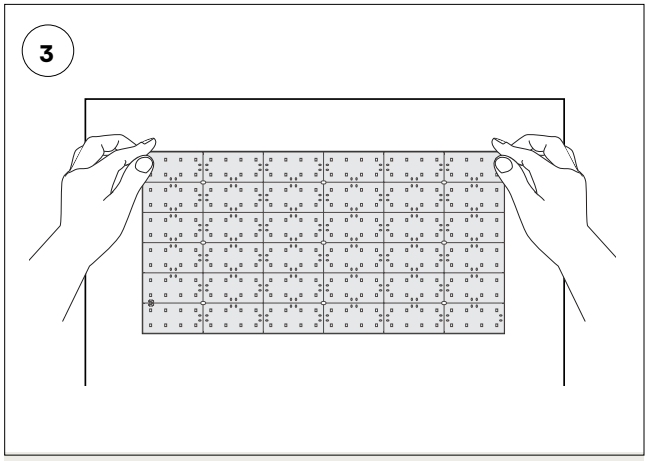



Cut panel to desired size, if needed.

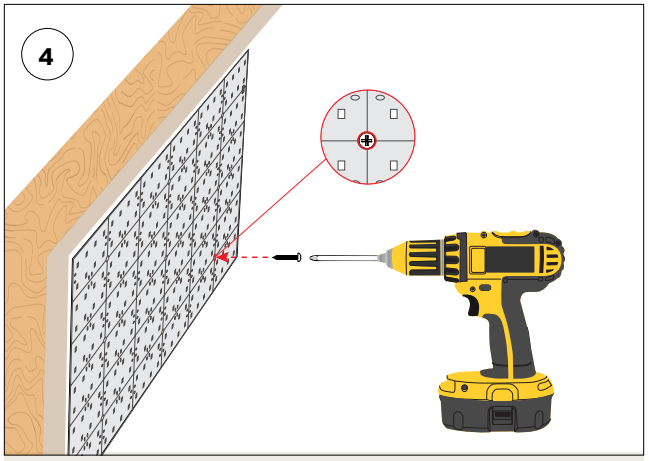
NOTE: Field cuttable at designated lines indicated on the LED sheet.




Remove the backing from the adhesive located on the underside of the LEDs sheet.




Apply firm even pressure when adhering the LEDs sheet in place.




Secure LEDs sheet using provided screws.

NOTE: Only put screws in pre-made holes with screw icons.

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# Q-SHEETS-RGBW

Flexible LED Panels Color Data

## 46W

### QS24-46W-DRY-R

0 K

**CRI:** 0.0

**CRI R9:** 0.0

**TM30 Rf:** 0.0

**TM30 Rg:** 0.0

**CQS:** 0.0

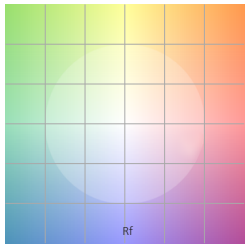
**X:** 0.681

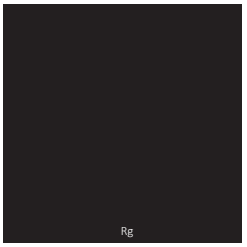
**Y:** 0.301

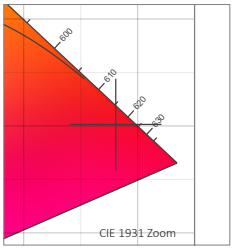
**U:** 0.518

**V:** 0.344

**Δuv:** n/a




| R1 | R2 | R3 | R4 | R5 | R6 | R7 | R8 | R9 | R10 | R11 | R12 | R13 | R14 | R15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| **Q1** | **Q2** | **Q3** | **Q4** | **Q5** | **Q6** | **Q7** | **Q8** | **Q9** | **Q10** | **Q11** | **Q12** | **Q13** | **Q14** | **Q15** |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| **C1** | **C2** | **C3** | **C4** | **C5** | **C6** | **C7** | **C8** | **C9** | **C10** | **C11** | **C12** | **C13** | **C14** | **C15** | **C16** |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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

### QS24-46W-DRY-G

0 K

**CRI:** 0.0

**CRI R9:** 0.0

**TM30 Rf:** 0.0

**TM30 Rg:** 0.0

**CQS:** 0.0

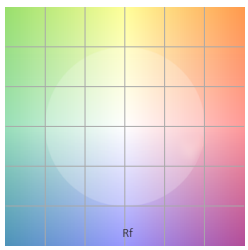
**X:** 0.153

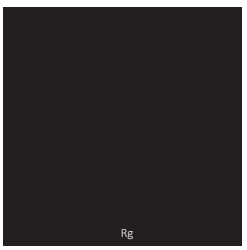
**Y:** 0.734

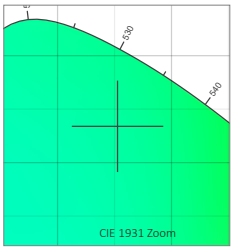
**U:** 0.053

**V:** 0.383

**Δuv:** n/a




| R1 | R2 | R3 | R4 | R5 | R6 | R7 | R8 | R9 | R10 | R11 | R12 | R13 | R14 | R15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| **Q1** | **Q2** | **Q3** | **Q4** | **Q5** | **Q6** | **Q7** | **Q8** | **Q9** | **Q10** | **Q11** | **Q12** | **Q13** | **Q14** | **Q15** |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| **C1** | **C2** | **C3** | **C4** | **C5** | **C6** | **C7** | **C8** | **C9** | **C10** | **C11** | **C12** | **C13** | **C14** | **C15** | **C16** |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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

### QS24-46W-DRY-B

0 K

**CRI:** 0.0

**CRI R9:** 0.0

**TM30 Rf:** 0.0

**TM30 Rg:** 0.0

**CQS:** 0.0

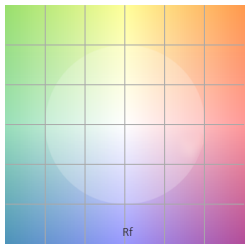
**X:** 0.135

**Y:** 0.056

**U:** 0.159

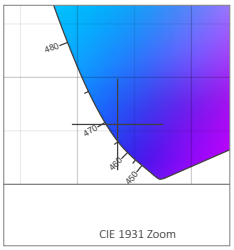
**V:** 0.099

**Δuv:** n/a










| R1 | R2 | R3 | R4 | R5 | R6 | R7 | R8 | R9 | R10 | R11 | R12 | R13 | R14 | R15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| **Q1** | **Q2** | **Q3** | **Q4** | **Q5** | **Q6** | **Q7** | **Q8** | **Q9** | **Q10** | **Q11** | **Q12** | **Q13** | **Q14** | **Q15** |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| **C1** | **C2** | **C3** | **C4** | **C5** | **C6** | **C7** | **C8** | **C9** | **C10** | **C11** | **C12** | **C13** | **C14** | **C15** | **C16** |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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

**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-02-27-24

# Q-SHEETS-RGBW

Flexible LED Panels Color Data

## QS24-46W-DRY-22

2187 K

**CRI:** 96.2

**CRI R9:** 87.7

**TM30 Rf:** 95.5

**TM30 Rg:** 101.6

**CQS:** 89.4

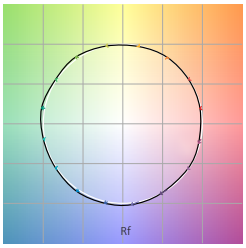
**X:** 0.506

**Y:** 0.414

**U:** 0.291

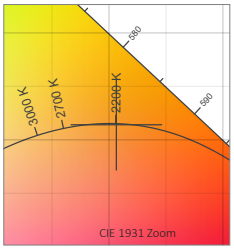
**V:** 0.357

**Δuv:** -0.0004










| R1 | R2 | R3 | R4 | R5 | R6 | R7 | R8 | R9 | R10 | R11 | R12 | R13 | R14 | R15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 97.4 | 98.1 | 98.2 | 95.4 | 96.3 | 93.3 | 96.2 | 94.4 | 87.7 | 97.3 | 89.8 | 90.8 | 96.9 | 97.4 | 98.1 |
| **Q1** | **Q2** | **Q3** | **Q4** | **Q5** | **Q6** | **Q7** | **Q8** | **Q9** | **Q10** | **Q11** | **Q12** | **Q13** | **Q14** | **Q15** |
| 87.7 | 88.9 | 91.5 | 89.8 | 88.6 | 87.6 | 89.9 | 91.6 | 91.1 | 91.3 | 90.2 | 90.2 | 91.2 | 88.8 | 88.4 |
| **C1** | **C2** | **C3** | **C4** | **C5** | **C6** | **C7** | **C8** | **C9** | **C10** | **C11** | **C12** | **C13** | **C14** | **C15** | **C16** |
| 96.6 | 97.3 | 95.5 | 97.3 | 97.1 | 94.9 | 96.9 | 95.0 | 96.3 | 96.9 | 95.8 | 94.1 | 91.4 | 85.7 | 95.8 | 92.2 |

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

## QS24-46W-DRY-25

2541 K

**CRI:** 95.7

**CRI R9:** 97.0

**TM30 Rf:** 95.0

**TM30 Rg:** 101.7

**CQS:** 94.5

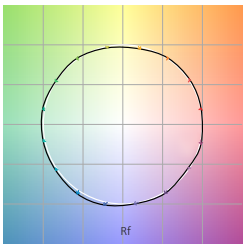
**X:** 0.471

**Y:** 0.409

**U:** 0.271

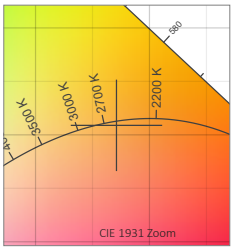
**V:** 0.352

**Δuv:** -0.0014










| R1 | R2 | R3 | R4 | R5 | R6 | R7 | R8 | R9 | R10 | R11 | R12 | R13 | R14 | R15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 94.2 | 96.4 | 98.0 | 93.7 | 93.8 | 92.5 | 98.5 | 98.2 | 97.0 | 94.0 | 89.2 | 87.9 | 94.1 | 97.5 | 96.4 |
| **Q1** | **Q2** | **Q3** | **Q4** | **Q5** | **Q6** | **Q7** | **Q8** | **Q9** | **Q10** | **Q11** | **Q12** | **Q13** | **Q14** | **Q15** |
| 92.5 | 94.3 | 95.6 | 95.6 | 95.0 | 94.5 | 95.3 | 96.3 | 96.2 | 95.6 | 94.5 | 94.0 | 94.9 | 93.4 | 93.3 |
| **C1** | **C2** | **C3** | **C4** | **C5** | **C6** | **C7** | **C8** | **C9** | **C10** | **C11** | **C12** | **C13** | **C14** | **C15** | **C16** |
| 96.5 | 96.7 | 95.3 | 93.6 | 96.7 | 96.0 | 95.3 | 95.6 | 95.0 | 96.1 | 93.9 | 92.6 | 93.3 | 94.0 | 94.2 | 92.7 |

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

## QS24-46W-DRY-27

2787 K

**CRI:** 95.7

**CRI R9:** 96.9

**TM30 Rf:** 93.0

**TM30 Rg:** 100.2

**CQS:** 94.9

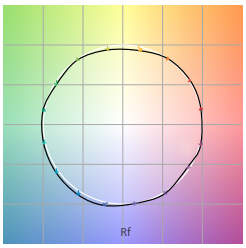
**X:** 0.452

**Y:** 0.407

**U:** 0.259

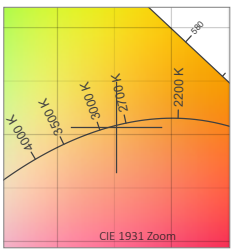
**V:** 0.350

**Δuv:** -0.0008










| R1 | R2 | R3 | R4 | R5 | R6 | R7 | R8 | R9 | R10 | R11 | R12 | R13 | R14 | R15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 94.2 | 96.6 | 97.9 | 94.4 | 94.3 | 92.7 | 97.5 | 97.5 | 96.9 | 94.8 | 90.6 | 85.5 | 94.3 | 97.3 | 96.0 |
| **Q1** | **Q2** | **Q3** | **Q4** | **Q5** | **Q6** | **Q7** | **Q8** | **Q9** | **Q10** | **Q11** | **Q12** | **Q13** | **Q14** | **Q15** |
| 90.7 | 94.3 | 96.0 | 96.5 | 96.9 | 97.2 | 97.6 | 96.7 | 96.4 | 96.1 | 95.1 | 94.4 | 95.3 | 94.5 | 93.2 |
| **C1** | **C2** | **C3** | **C4** | **C5** | **C6** | **C7** | **C8** | **C9** | **C10** | **C11** | **C12** | **C13** | **C14** | **C15** | **C16** |
| 95.0 | 96.0 | 94.4 | 90.7 | 94.4 | 95.7 | 90.0 | 94.8 | 92.5 | 92.2 | 92.9 | 90.5 | 91.3 | 92.6 | 91.9 | 90.8 |

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

**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-02-27-24

# Q-SHEETS-RGBW

Flexible LED Panels Color Data

## QS24-46W-DRY-30

3099 K

**CRI:** 97.7

**CRI R9:** 98.6

**TM30 Rf:** 95.2

**TM30 Rg:** 101.8

**CQS:** 96.0

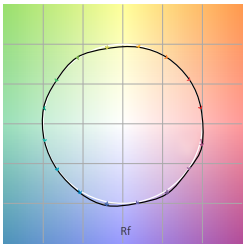
**X:** 0.431

**Y:** 0.404

**U:** 0.247

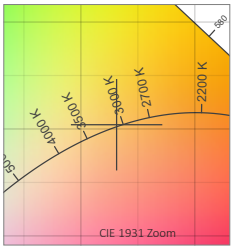
**V:** 0.347

**Δuv:** 0.0008










| R1 | R2 | R3 | R4 | R5 | R6 | R7 | R8 | R9 | R10 | R11 | R12 | R13 | R14 | R15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 97.5 | 99.6 | 94.7 | 96.1 | 98.4 | 98.1 | 99.1 | 98.2 | 98.6 | 97.5 | 93.2 | 85.1 | 98.2 | 96.0 | 98.2 |
| **Q1** | **Q2** | **Q3** | **Q4** | **Q5** | **Q6** | **Q7** | **Q8** | **Q9** | **Q10** | **Q11** | **Q12** | **Q13** | **Q14** | **Q15** |
| 95.2 | 97.0 | 93.0 | 95.4 | 97.9 | 95.4 | 96.1 | 97.9 | 96.8 | 97.4 | 96.6 | 95.9 | 96.0 | 97.3 | 96.7 |
| **C1** | **C2** | **C3** | **C4** | **C5** | **C6** | **C7** | **C8** | **C9** | **C10** | **C11** | **C12** | **C13** | **C14** | **C15** | **C16** |
| 96.9 | 97.5 | 96.5 | 96.8 | 94.4 | 96.4 | 94.3 | 97.0 | 96.5 | 94.7 | 92.8 | 92.5 | 95.4 | 93.5 | 93.2 | 90.2 |

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

## QS24-46W-DRY-35

3488 K

**CRI:** 97.0

**CRI R9:** 91.4

**TM30 Rf:** 94.0

**TM30 Rg:** 101.2

**CQS:** 96.9

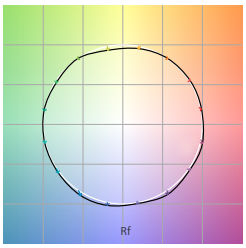
**X:** 0.406

**Y:** 0.392

**U:** 0.236

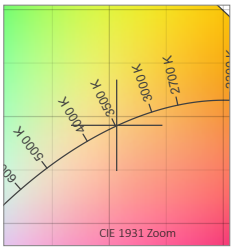
**V:** 0.341

**Δuv:** 0.0003










| R1 | R2 | R3 | R4 | R5 | R6 | R7 | R8 | R9 | R10 | R11 | R12 | R13 | R14 | R15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 96.4 | 99.5 | 94.9 | 96.5 | 97.6 | 97.5 | 98.3 | 95.3 | 91.4 | 99.0 | 94.0 | 80.7 | 97.1 | 96.2 | 95.6 |
| **Q1** | **Q2** | **Q3** | **Q4** | **Q5** | **Q6** | **Q7** | **Q8** | **Q9** | **Q10** | **Q11** | **Q12** | **Q13** | **Q14** | **Q15** |
| 94.7 | 98.7 | 93.2 | 94.8 | 98.3 | 99.2 | 98.3 | 99.2 | 97.9 | 99.4 | 98.7 | 97.1 | 97.0 | 98.3 | 96.7 |
| **C1** | **C2** | **C3** | **C4** | **C5** | **C6** | **C7** | **C8** | **C9** | **C10** | **C11** | **C12** | **C13** | **C14** | **C15** | **C16** |
| 95.8 | 96.6 | 95.9 | 94.7 | 93.2 | 96.8 | 94.0 | 95.9 | 94.3 | 91.7 | 90.2 | 92.7 | 96.0 | 93.6 | 92.1 | 91.0 |

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

## QS24-46W-DRY-50

5267 K

**CRI:** 97.3

**CRI R9:** 86.0

**TM30 Rf:** 93.8

**TM30 Rg:** 101.1

**CQS:** 96.7

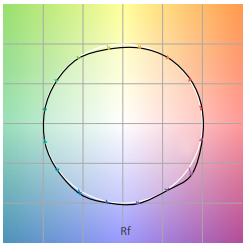
**X:** 0.339

**Y:** 0.356

**U:** 0.205

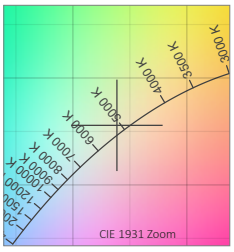
**V:** 0.324

**Δuv:** 0.0014










| R1 | R2 | R3 | R4 | R5 | R6 | R7 | R8 | R9 | R10 | R11 | R12 | R13 | R14 | R15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 96.9 | 99.3 | 96.8 | 97.1 | 98.2 | 97.6 | 97.9 | 94.3 | 86.0 | 98.9 | 93.8 | 79.2 | 97.2 | 97.8 | 94.7 |
| **Q1** | **Q2** | **Q3** | **Q4** | **Q5** | **Q6** | **Q7** | **Q8** | **Q9** | **Q10** | **Q11** | **Q12** | **Q13** | **Q14** | **Q15** |
| 94.5 | 98.4 | 93.9 | 95.8 | 99.1 | 98.9 | 99.2 | 98.4 | 98.6 | 97.5 | 96.8 | 95.8 | 96.1 | 98.4 | 96.3 |
| **C1** | **C2** | **C3** | **C4** | **C5** | **C6** | **C7** | **C8** | **C9** | **C10** | **C11** | **C12** | **C13** | **C14** | **C15** | **C16** |
| 94.4 | 96.0 | 95.1 | 93.6 | 93.1 | 97.2 | 95.2 | 94.3 | 93.7 | 93.2 | 90.5 | 96.4 | 94.3 | 95.0 | 87.4 | 94.6 |

| TM30 | | | |
|---|---|---|---|
| Hue Bin | $R_f$ | Chroma | Hue |
| 1 | 94 | 1% | 0% |
| 2 | 96 | 1% | -2% |
| 3 | 95 | 0% | -2% |
| 4 | 94 | -3% | -3% |
| 5 | 93 | -5% | -1% |
| 6 | 97 | -1% | 1% |
| 7 | 95 | -1% | 3% |
| 8 | 94 | 0% | 3% |
| 9 | 94 | 1% | 6% |
| 10 | 93 | 1% | 4% |
| 11 | 91 | 3% | 5% |
| 12 | 96 | 1% | -1% |
| 13 | 94 | 2% | -2% |
| 14 | 95 | 1% | 0% |
| 15 | 87 | 8% | -6% |
| 16 | 95 | 2% | -1% |

**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-02-27-24

# Q-SHEETS-RGBW

Flexible LED Panels Color Data

QS24-46W-DRY-62

6231 K

**CRI:** 96.6

**CRI R9:** 91.0

**TM30 Rf:** 91.4

**TM30 Rg:** 98.7

**CQS:** 94.1

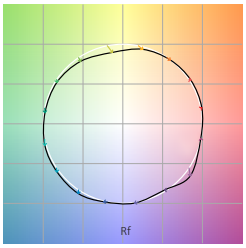
**X:** 0.317

**Y:** 0.342

**U:** 0.196

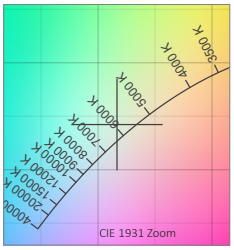
**V:** 0.317

**Δuv:** 0.0047










| R1 | R2 | R3 | R4 | R5 | R6 | R7 | R8 | R9 | R10 | R11 | R12 | R13 | R14 | R15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 97.9 | 96.8 | 96.3 | 96.2 | 97.9 | 97.5 | 95.0 | 95.1 | 91.0 | 91.8 | 96.7 | 79.2 | 96.2 | 97.3 | 94.0 |
| **Q1** | **Q2** | **Q3** | **Q4** | **Q5** | **Q6** | **Q7** | **Q8** | **Q9** | **Q10** | **Q11** | **Q12** | **Q13** | **Q14** | **Q15** |
| 90.4 | 94.4 | 98.4 | 98.2 | 98.4 | 97.4 | 97.4 | 95.9 | 91.8 | 89.9 | 91.5 | 92.4 | 94.7 | 99.0 | 95.0 |
| **C1** | **C2** | **C3** | **C4** | **C5** | **C6** | **C7** | **C8** | **C9** | **C10** | **C11** | **C12** | **C13** | **C14** | **C15** | **C16** |
| 94.0 | 95.8 | 91.2 | 88.4 | 84.3 | 92.8 | 94.7 | 91.0 | 91.7 | 91.8 | 92.1 | 93.1 | 91.9 | 93.4 | 86.3 | 96.4 |

| TM30 | | | |
|---|---|---|---|
| Hue Bin | $R_f$ | Chroma | Hue |
| 1 | 94 | 1% | 0% |
| 2 | 96 | 2% | -2% |
| 3 | 91 | 0% | -5% |
| 4 | 88 | -3% | -6% |
| 5 | 84 | -9% | -5% |
| 6 | 93 | -5% | 1% |
| 7 | 95 | -2% | 3% |
| 8 | 91 | -1% | 5% |
| 9 | 92 | 1% | 7% |
| 10 | 92 | 2% | 4% |
| 11 | 92 | 4% | 2% |
| 12 | 93 | 1% | -4% |
| 13 | 92 | 1% | -5% |
| 14 | 93 | -2% | -3% |
| 15 | 86 | 7% | -7% |
| 16 | 96 | 0% | 1% |

**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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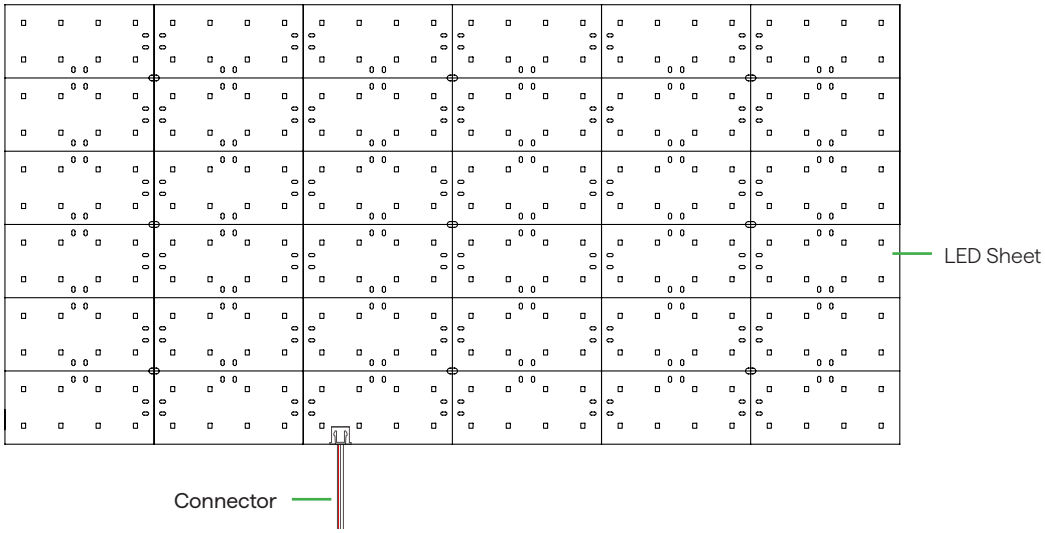
Specification subject to change. Rev-02-27-24

# MATERIAL RECYCLING

Q-SHEETS

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 Sheet
Connectors

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