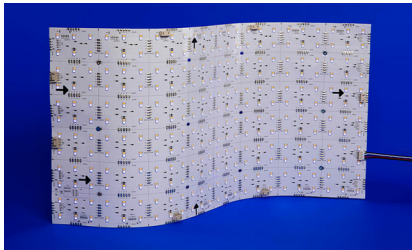




**Q-SHEETS RGBW**  
24VDC Dimmable Flexible Sheet



- 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<br>PRODUCT | 2<br>WATTAGE | 3<br>RATED | 4<br>CCT | 5<br>QUANTITY |
|--------------|--------------|------------|----------|---------------|
| QS24         | 46W          |            |          |               |

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

| 1<br>PRODUCT  | 2<br>WATTAGE | 3<br>RATED                         | 4<br>CCT  | 5<br>QUANTITY             |
|---|--------------|------------------------------------|---|---------------------------|
| <b>QS24</b><br><br>See last page for compatible power supplies. | <b>46W</b>   | <b>DRY</b> IP20<br><b>DMP</b> IP54 | <b>RGBW-22</b> RGBW 2200K<br><b>RGBW-25</b> RGBW 2500K<br><b>RGBW-27</b> RGBW 2700K<br><b>RGBW-30</b> RGBW 3000K<br><b>RGBW-35</b> RGBW 3500K<br><b>RGBW-50</b> RGBW 5000K<br><b>RGBW-62</b> RGBW 6200K | 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



# Q-SHEETS RGBW

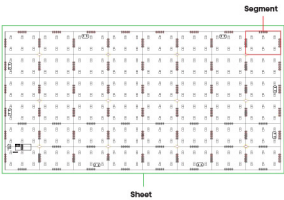
24VDC Dimmable Flexible Sheet

## 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 | Circuit Wattage/Sheet |
|-------|----------|------------|-----------|-------------------|--------|-----------------------|
| 2200K | 974      | 20         | 487       | 81 Lm/W           | 96     | 11.98                 |
| 2500K | 1031     | 21         | 516       | 86 Lm/W           | 96     | 11.93                 |
| 2700K | 1167     | 24         | 584       | 96 Lm/W           | 96     | 12.1                  |
| 3000K | 1173     | 24         | 587       | 98 Lm/W           | 98     | 11.93                 |
| 3500K | 1195     | 25         | 598       | 100 Lm/W          | 97     | 11.98                 |
| 4000K | 1200     | 25         | 600       | 100 Lm/W          | 97     | 11.98                 |
| 5000K | 1282     | 27         | 641       | 107 Lm/W          | 97     | 11.98                 |
| 6200K | 1233     | 26         | 617       | 103 Lm/W          | 97     | 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 |

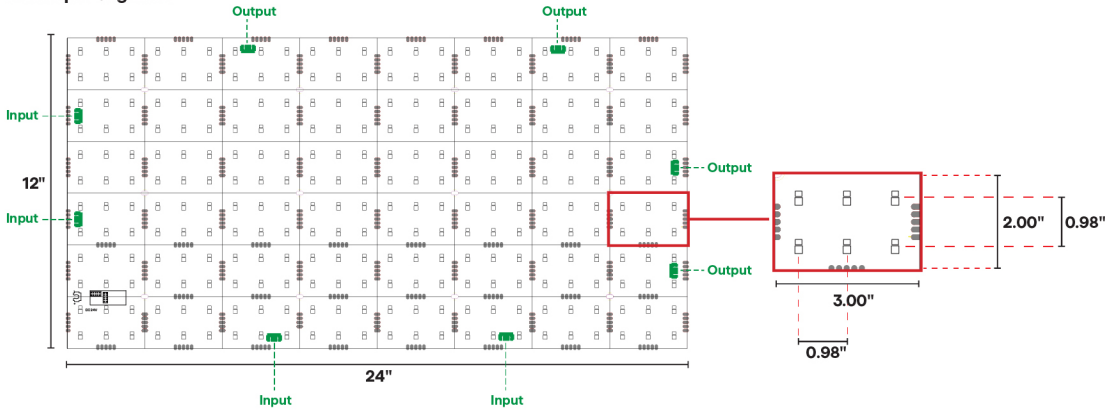


# Q-SHEETS RGBW

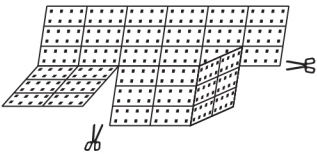
24VDC Dimmable Flexible Sheet

## DIMENSIONS

46W per sheet  
0.96W per segment



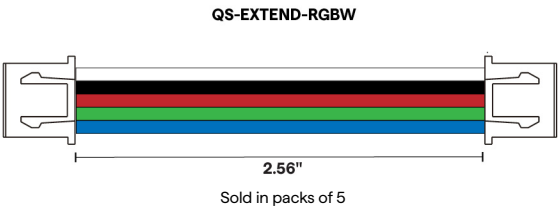
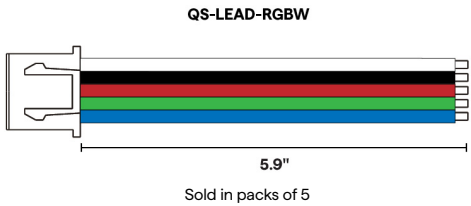
**NOTE:**  
Field cuttable at designated lines indicated on the LED sheet.



### Q-SHEET THICKNESS

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

## CONNECTORS

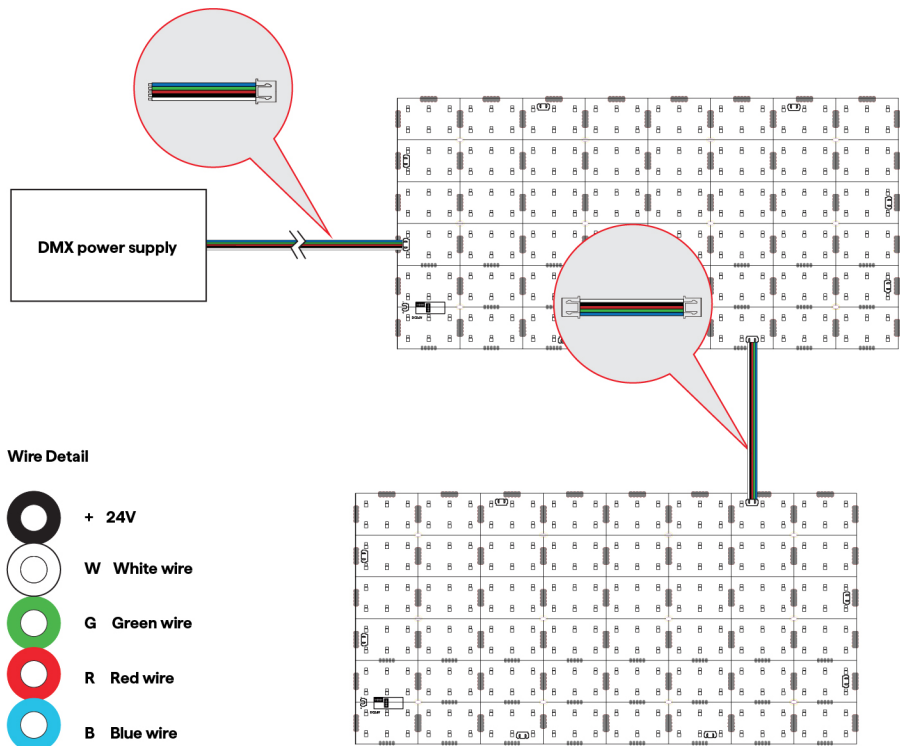




# Q-SHEETS RGBW

## 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                              |



# Q-SHEETS RGBW

24VDC Dimmable Flexible Sheet

| DIMMING<br>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**

2.80"  
2.27"

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

**SCENE APP DONGLE**

1.36"  
2.58"

Wi-Fi or Bluetooth Connectivity

**QS-LEAD-RGBW**

Lead Connector

**QS-EXTEND-RGBW**

Jumper Connector

## COMPATIBLE APPS

**NFC APP**

Read and write DMX addresses and adjust voltage