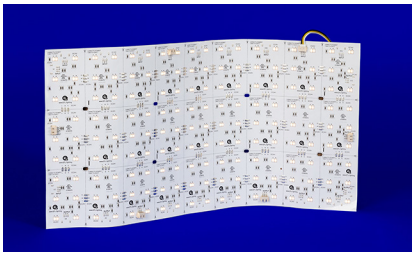
Q-SHEETS DW - WARM DIM APPLICATIONS

24VDC Dimmable Flexible Sheet



- Provide even illumination
- Easy to install and field modifiable
- Multiple color temperature options
- Dimmable with compatible QTL DC power supplies
- When controlled by DALI, DMX or power supply by others, max number of sheets per 96W circuit: 13W - 3 sheets; 23W - 2 sheets
- When using QTL QTM-eLED+WD, max number of sheets per 96W circuit: 13W - 7 sheets; 23W - 4 sheets
- 3 step MacAdam ellipse binning
- UL Listed
- When using DALI and DMX power supplies, LED wattage must be doubled

1 PRODUCT	2 WATTAGE	3 RATED	4 CCT	5 QUANTITY
QS24				

Sample Part Number: **QS24-13W-DRY-20/30-2**

1 PRODUCT

QS24

See last page for compatible power supplies. Using DALI, DMX or non QTL power supplies may double watts/ft.

2 WATTAGE

13W
23W

3 RATED

DRY	IP20
DMP	IP54

4 CCT

20/30	2000K/3000K
22/65	2200K/6500K
27/40	2700K/4000K

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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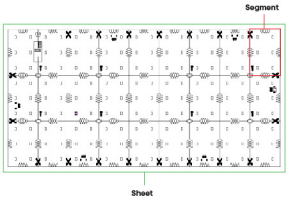
Q-SHEETS DW - WARM DIM APPLICATIONS

24VDC Dimmable Flexible Sheet

4 CCT – DELIVERED LUMENS

13W
[Calculated L70 = 54000 hrs]

CCT	Lm/Sheet	Lm/Segment	Lm/Sq. Ft	Luminous Efficacy	CRI Ra	CRI R9	TM30 Rf	TM30 Rg	Circuit Wattage/Sheet
2000K	959	35	773	71 Lm/W	96	82	94	103	13.51
2200K	1077	40	868	77 Lm/W	97	85	96	102	13.94
2700K	1237	46	997	96 Lm/W	96	98	93	100	12.89
3000K	1344	50	1084	96 Lm/W	98	98	95	103	13.94
4000K	1353	50	1091	106 Lm/W	98	95	94	100	12.77
6500K	1403	52	1131	100 Lm/W	96	89	91	99	14.02



23W
[Calculated L70 = 54000 hrs]

CCT	Lm/Sheet	Lm/Segment	Lm/Sq. Ft	Luminous Efficacy	CRI Ra	CRI R9	TM30 Rf	TM30 Rg	Circuit Wattage/Sheet
2000K	1546	32	773	64 Lm/W	96	81	95	102	24.07
2200K	1793	38	897	72 Lm/W	96	91	95	103	25.01
2700K	2253	47	1127	91 Lm/W	96	98	93	100	24.86
3000K	2293	48	1147	93 Lm/W	98	99	95	102	24.6
4000K	2436	51	1218	100 Lm/W	98	95	94	100	24.48
6500K	2243	53	1122	91 Lm/W	95	84	90	98	24.79

TEMPERATURE RATINGS

		13W		26W		23W		46W	
		QTL power supply other than DALI, DMX		DALI, DMX, or non-QTL power supply		QTL power supply other than DALI, DMX		DALI, DMX, or non-QTL power supply	
		Min	Max	Min	Max	Min	Max	Min	Max
DRY	Ambient Operating Temp	-4°F	125°F	-4°F	120°F	-4°F	120°F	-4°F	110°F
	Storage Temp	-4°F	140°F	-4°F	140°F	-4°F	140°F	-4°F	140°F
	Installation Temp	-50°F	100°F	-50°F	100°F	-50°F	100°F	-50°F	100°F
DMP	Ambient Operating Temp	-4°F	120°F	-4°F	115°F	-4°F	115°F	-4°F	105°F
	Storage Temp	-4°F	140°F	-4°F	140°F	-4°F	140°F	-4°F	140°F
	Installation Temp	-50°F	100°F	-50°F	100°F	-50°F	100°F	-50°F	100°F

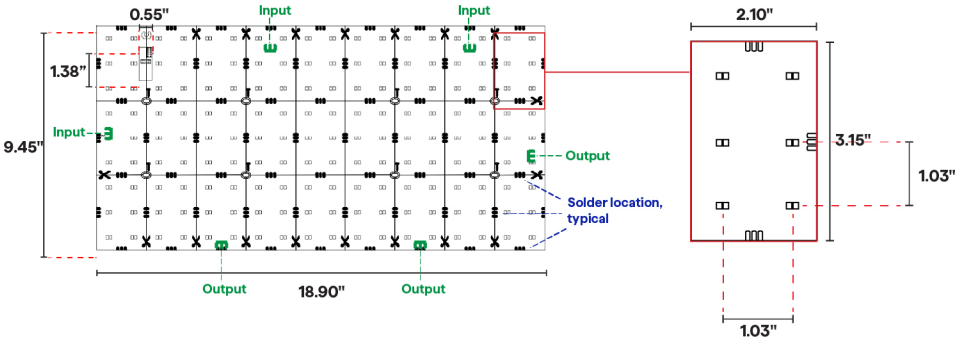
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Q-SHEETS DW - WARM DIM APPLICATIONS

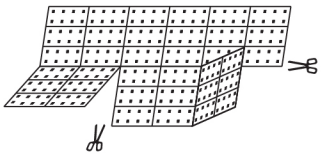
24VDC Dimmable Flexible Sheet

DIMENSIONS

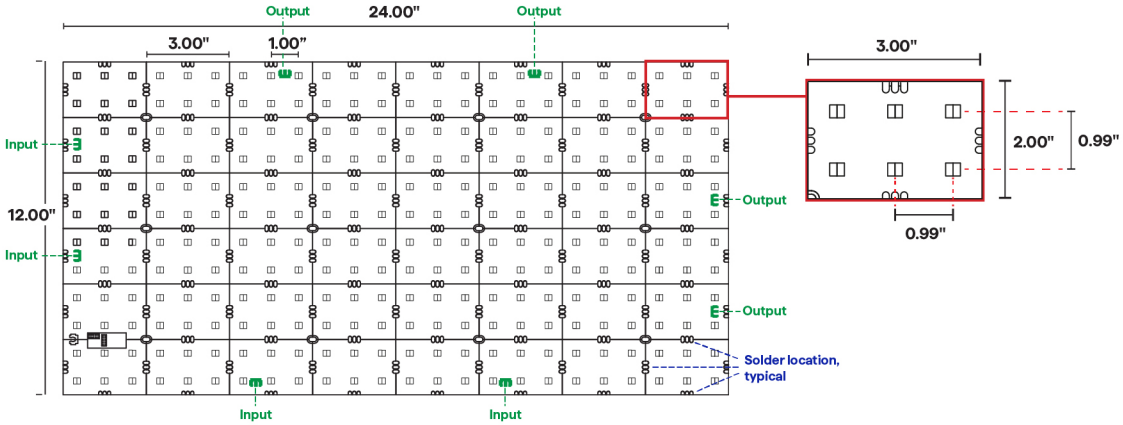
13W per sheet
0.48W per segment



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



23W per sheet
0.48W per segment



Q-SHEET THICKNESS

PCB	LED CHIPS	CONNECTORS
0.0200"	0.0550"	0.2590"

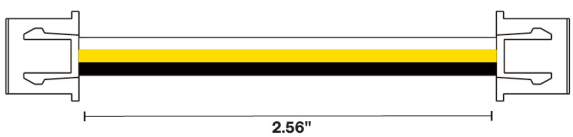
CONNECTORS

QS-LEAD-DW



Sold in packs of 5

QS-EXTEND-DW



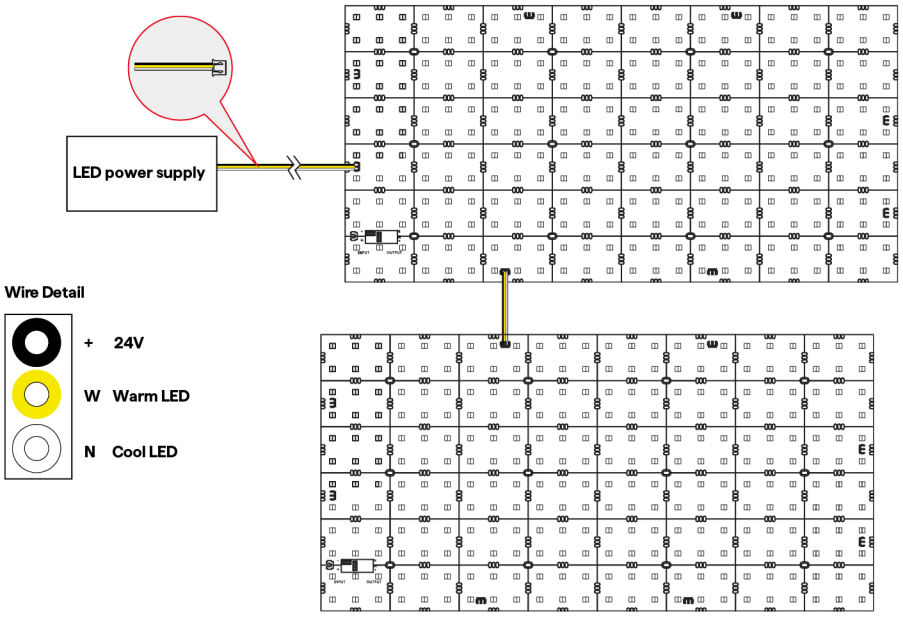
Sold in packs of 5

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Q-SHEETS DW - WARM DIM APPLICATIONS

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

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Q-SHEETS DW - WARM DIM APPLICATIONS

24VDC Dimmable Flexible Sheet

COMPATIBLE POWER SUPPLIES

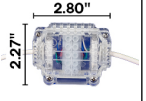
See power supplies cut sheets for more information. Data subject to change, all data has +/- 5% tolerance.

DIM TO LEVEL	INDOOR
	Q-SHEETS DW Warm Dim Applications
0.1%	QT-CAB-eLED+DALI-DT6 QT-CAB-eLED+DALI-DT8 QT-CAB-eLED+DALI-DT8-AWN QT-CAB-eLED+WD QT-CAB-eLED+WD-AWN QTM-eLED+DALI-DT6 QTM-eLED+DALI-DT8 QTM-eLED+DALI-DT8-AWN QTM-eLED+WD QTM-eLED+WD-AWN QZ-DW
1%	QZ-DALI-DT8
10%	Non-Dim Power Supply with WD App Dongle

DIMMING PROTOCOL	INDOOR
	Q-SHEETS DW Warm Dim Applications
Phase	QZ-DW
0-10V	QT-CAB-eLED+WD QT-CAB-eLED+WD-AWN QTM-eLED+WD QTM-eLED+WD-AWN QZ-DW
Lutron Athena	QT-CAB-eLED+DALI-DT8-AWN QT-CAB-eLED+WD-AWN QTM-eLED+DALI-DT8-AWN QTM-eLED+WD-AWN
DALI-2: DT6 LED wattage must be doubled for DW-HE products except for AWN	QT-CAB-eLED+DALI-DT6 QTM-eLED+DALI-DT6
DALI-2: DT8 LED wattage must be doubled for DW-HE products except for AWN	QT-CAB-eLED+DALI-DT8 QT-CAB-eLED+DALI-DT8-AWN QTM-eLED+DALI-DT8 QTM-eLED+DALI-DT8-AWN QZ-DALI-DT8
SCENE App Dimmed	Non-Dim Power Supply with WD 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-DW



Lead Connector

QS-EXTEND-DW



Jumper Connector

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

Q-SHEETS DW - WARM DIM APPLICATIONS

24VDC Dimmable Flexible Sheet

COMPATIBLE APPS

NFC APP



Read and write DMX addresses and adjust voltage

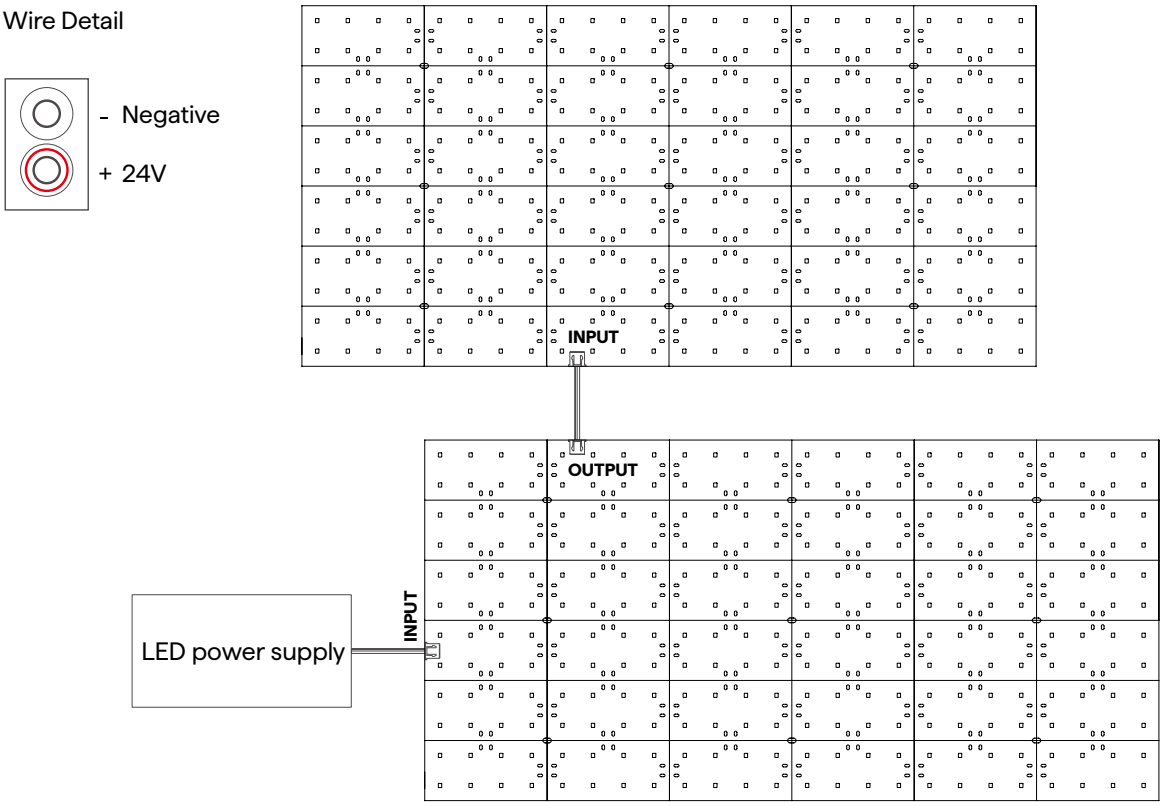
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Q-SHEET

Flexible LED Panels Installation Instructions

CONNECTION DIAGRAMS

STATIC WHITE



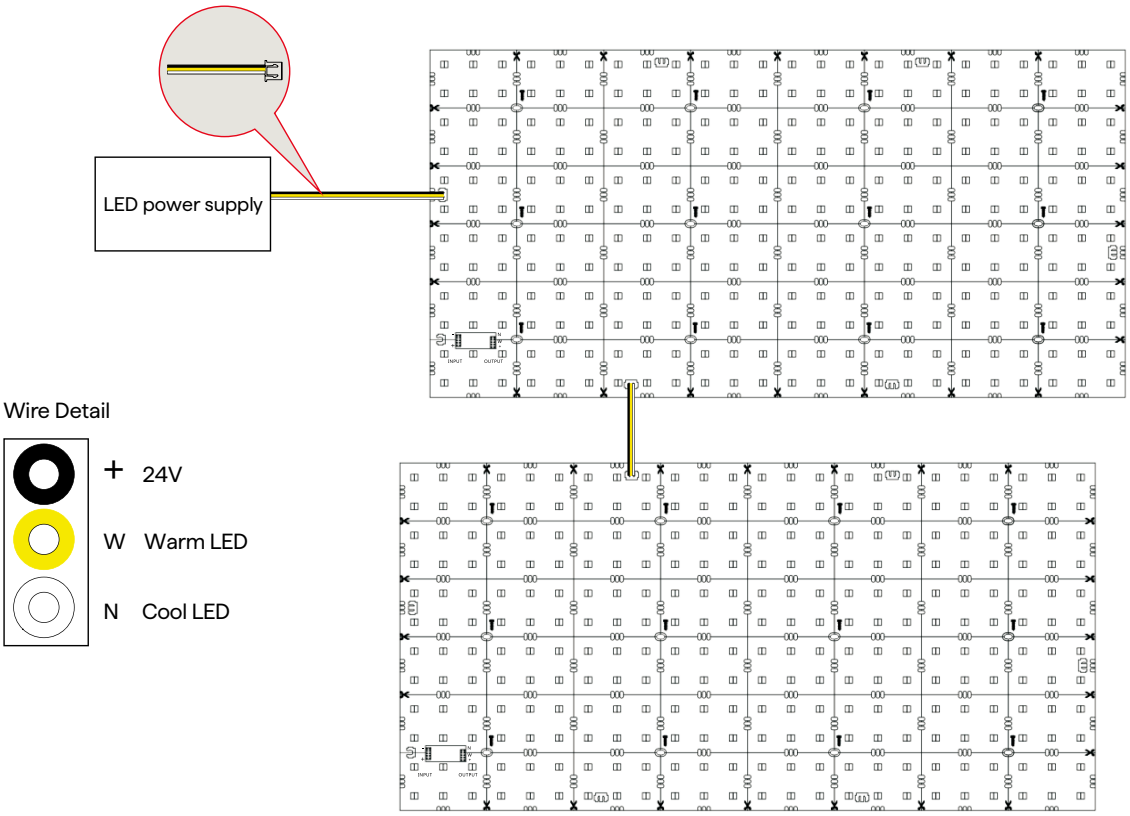
NOTE:

- 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



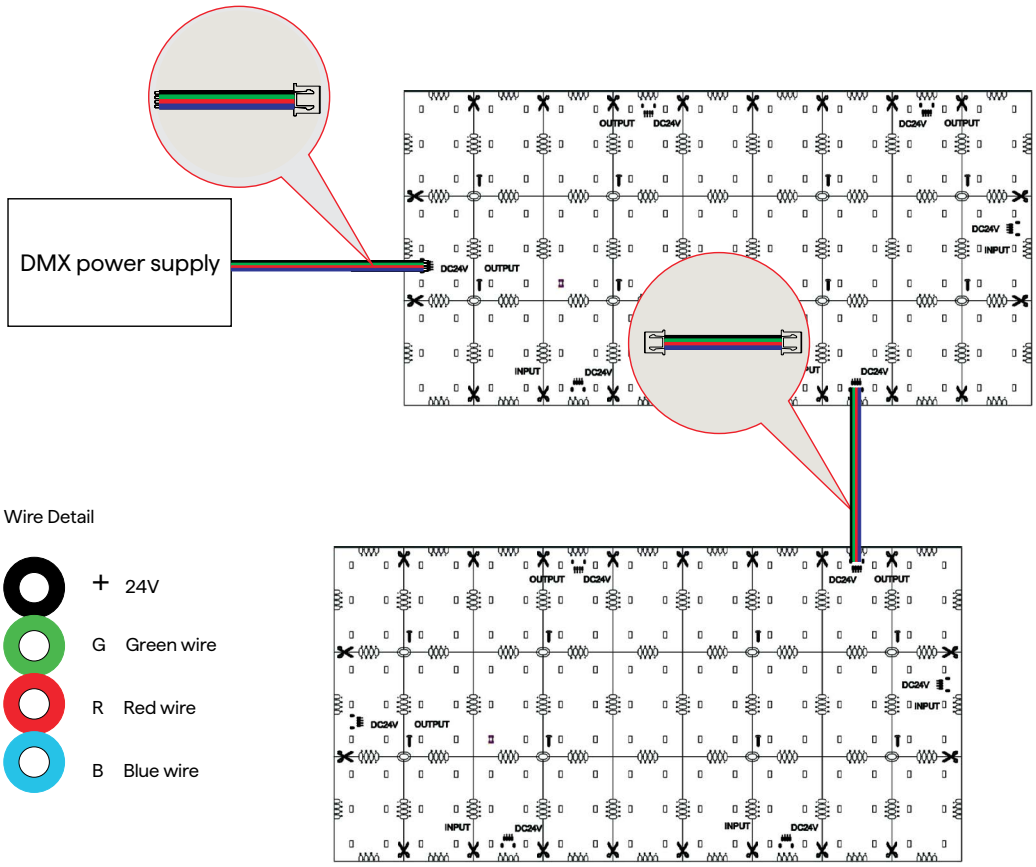
NOTE:

- 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



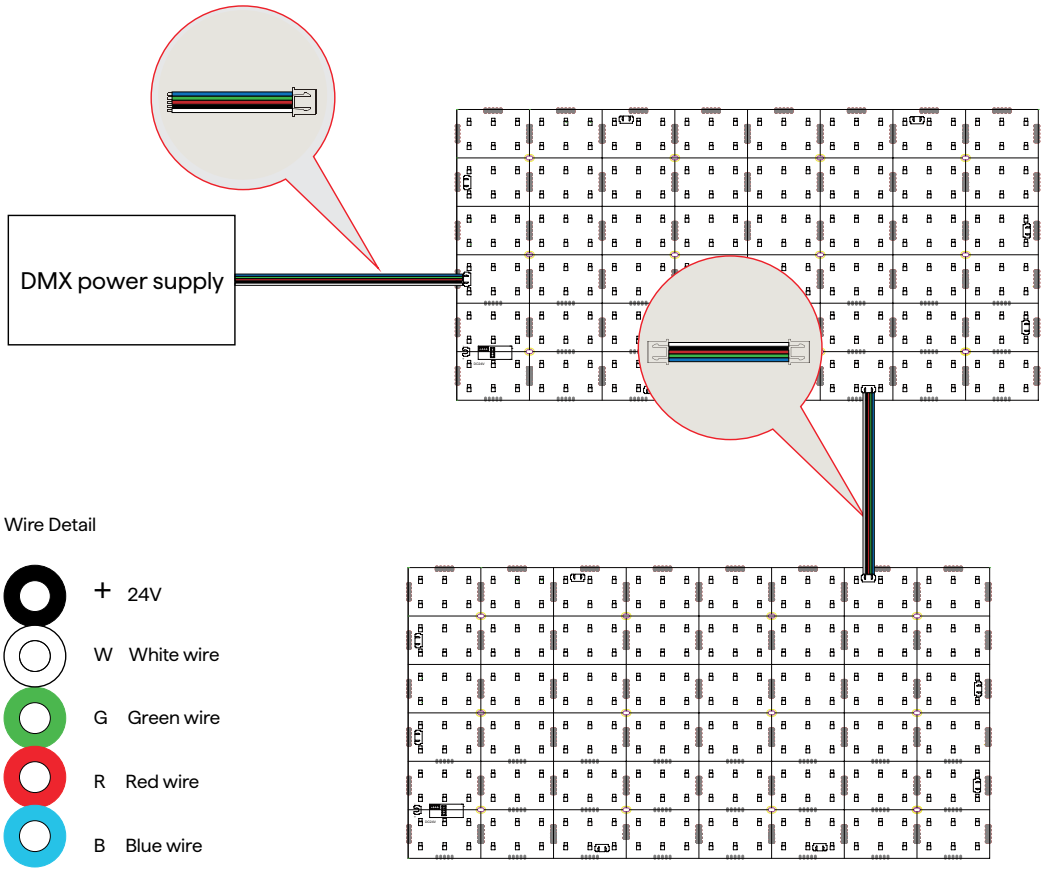
NOTE:

- 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"

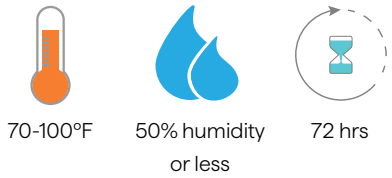
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MOUNTING

SURFACE MOUNTING METHOD: **VHB ADHESIVE MOUNT**

SURFACE PREPARATION

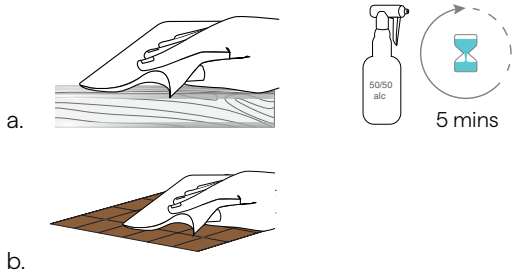
1



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



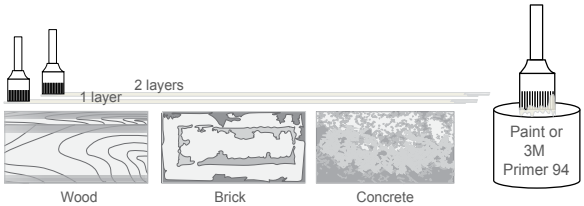
Using a 50/50 alcohol mix thoroughly clean:

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.

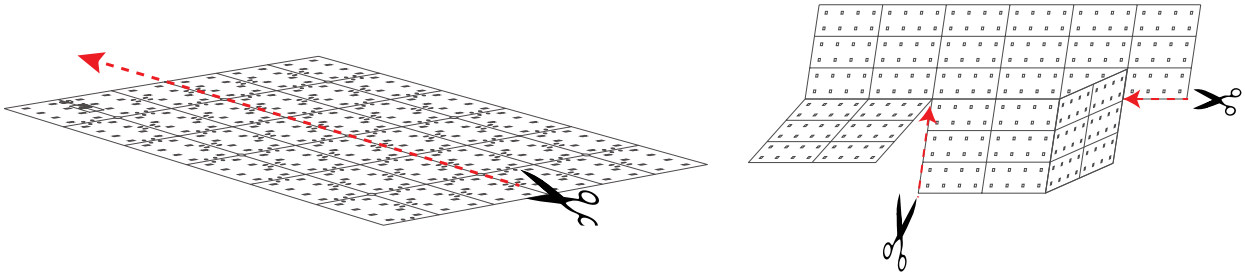
MATERIALS	SUGGESTED EPOXIES
Concrete, Stone, Cinderblock, Metal and Brick	Loctite Metal and Concrete Two-Part Epoxy
ABS, Fiberglass, Plastic and PVC	Loctite Plastic Two-Part Epoxy
Tile, Wood, Ceramic, Glass, or Metal	Loctite Clear Two-Part Epoxy
All Purpose	Strong Stik

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**

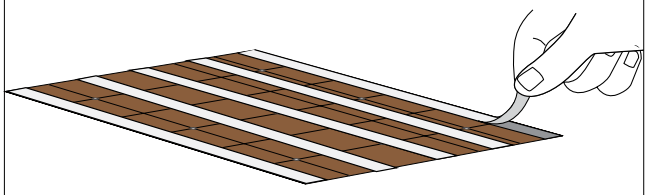
1



Cut panel to desired size, if needed.

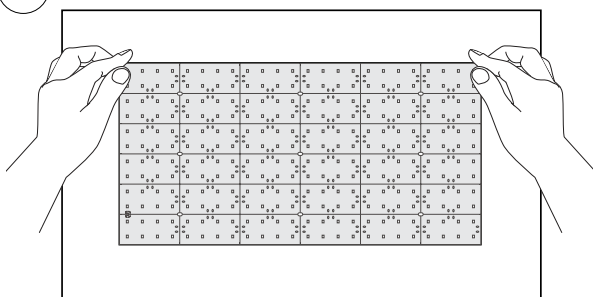
NOTE: Field cuttable at designated lines indicated on the LED sheet.

2



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

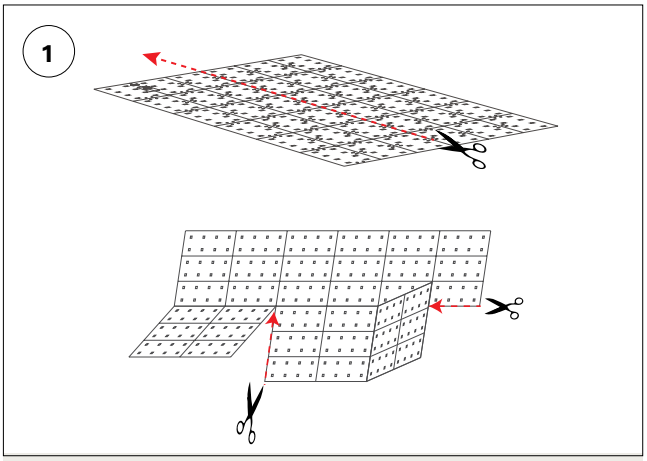
3



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

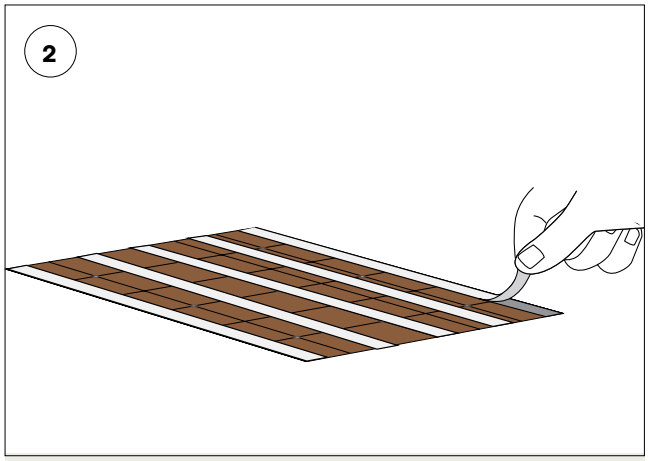
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SURFACE MOUNTING METHOD: **SCREW MOUNT**

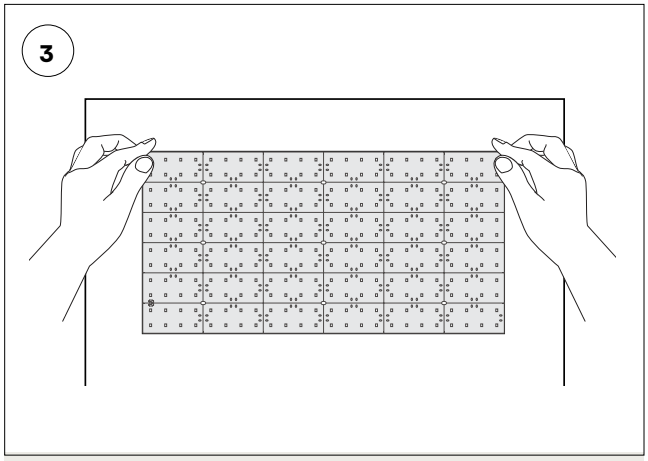


Cut panel to desired size, if needed.

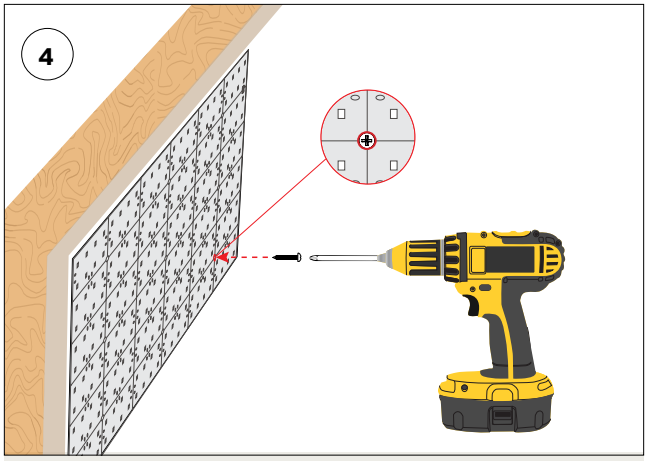
NOTE: Field cuttable at designated lines indicated on the LED sheet.



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-DW

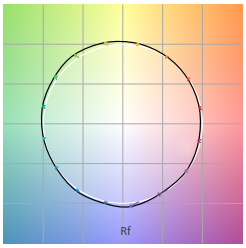
Flexible LED Panels Color Data

13W

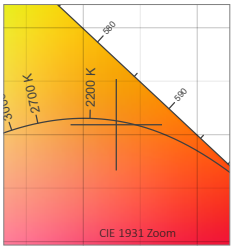
QS24-13W-DRY-20

1959 K

CRI: 95.9
CRI R9: 81.6
TM30 Rf: 93.7
TM30 Rg: 103.3
CQS: 81.8
X: 0.529
Y: 0.409
U: 0.309
V: 0.358
Δuv: -0.0011







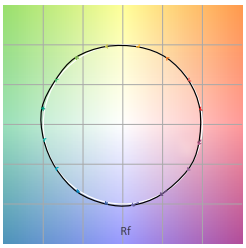
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
98.8	98.3	98.3	96.6	97.5	92.9	94.0	90.9	81.6	98.2	90.5	89.4	97.9	97.1	96.0
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
79.5	82.2	84.6	85.0	82.7	79.5	78.9	81.1	83.8	84.6	84.8	84.2	83.2	80.7	81.3
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
95.0	94.4	94.8	94.9	95.8	91.8	92.3	93.4	94.8	96.5	95.6	93.0	89.3	77.1	90.5	92.2

TM30			
Hue Bin	R_f	Chroma	Hue
1	95	-2%	0%
2	94	-1%	2%
3	95	1%	2%
4	95	3%	2%
5	96	4%	2%
6	92	6%	2%
7	92	4%	-3%
8	93	3%	-3%
9	95	1%	-2%
10	96	0%	-2%
11	96	3%	-1%
12	93	3%	-3%
13	89	4%	-11%
14	77	-1%	-13%
15	91	-1%	-7%
16	92	-2%	-5%

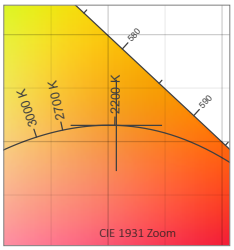
QS24-13W-DRY-22

2186 K

CRI: 96.6
CRI R9: 85.4
TM30 Rf: 95.6
TM30 Rg: 101.6
CQS: 89.2
X: 0.507
Y: 0.415
U: 0.291
V: 0.358
Δuv: -0.0001







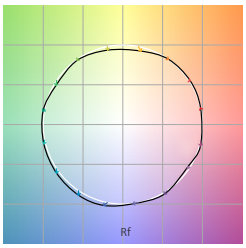
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
98.4	98.9	97.7	96.2	97.5	94.6	96.1	93.5	85.4	99.1	91.0	93.3	98.0	97.1	97.2
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
87.3	88.9	91.1	90.2	88.5	87.0	89.4	91.5	91.4	91.6	90.1	90.2	91.1	88.5	88.0
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
96.2	97.3	95.8	97.6	97.2	94.7	96.9	95.4	96.5	97.1	96.4	94.7	91.8	85.6	95.8	91.6

TM30			
Hue Bin	R_f	Chroma	Hue
1	96	-1%	0%
2	97	-1%	0%
3	96	0%	1%
4	98	-1%	-1%
5	97	0%	2%
6	95	3%	3%
7	97	1%	0%
8	95	4%	0%
9	97	1%	-1%
10	97	1%	-1%
11	96	2%	0%
12	95	2%	-2%
13	92	2%	-9%
14	86	0%	-10%
15	96	0%	-2%
16	92	-2%	-6%

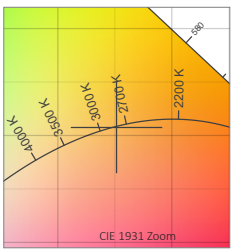
QS24-13W-DRY-27

2799 K

CRI: 95.9
CRI R9: 97.8
TM30 Rf: 92.9
TM30 Rg: 99.9
CQS: 94.8
X: 0.452
Y: 0.407
U: 0.259
V: 0.350
Δuv: -0.0004







R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
94.6	97.0	97.7	94.8	94.8	93.3	97.5	97.7	97.8	95.7	91.1	85.4	94.8	97.2	96.5
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
90.4	94.3	95.7	96.2	96.7	97.0	97.5	96.6	95.9	95.7	95.1	94.3	95.2	94.7	93.3
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
94.9	96.1	94.5	90.5	94.2	95.5	89.7	94.7	92.3	91.8	92.5	90.6	91.3	92.3	91.7	90.4

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

Flexible LED Panels Color Data

QS24-13W-DRY-30

3053 K

CRI: 97.5

CRI R9: 98.3

TM30 Rf: 95.5

TM30 Rg: 102.6

CQS: 95.9

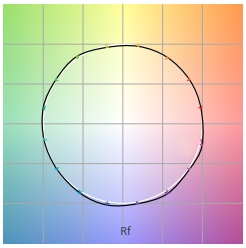
X: 0.432

Y: 0.401

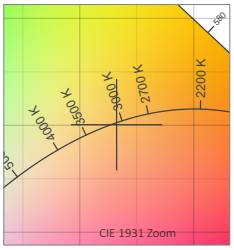
U: 0.249

V: 0.346

Δuv: -0.0008







R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
97.0	99.5	95.3	95.4	97.7	97.4	99.0	98.5	98.3	98.8	92.3	87.4	97.6	96.3	97.8
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
96.4	97.1	92.6	95.5	97.1	93.9	94.6	98.0	96.9	97.2	98.1	97.0	97.0	96.8	97.1
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
97.0	97.8	96.7	97.8	94.7	95.5	94.7	96.6	96.9	96.1	93.4	92.7	95.2	93.4	93.7	90.4

TM30			
Hue Bin	R_f	Chroma	Hue
1	97	0%	0%
2	98	0%	-1%
3	97	0%	1%
4	98	-1%	0%
5	95	-2%	2%
6	95	2%	2%
7	95	1%	1%
8	97	2%	0%
9	97	1%	1%
10	96	1%	2%
11	93	2%	4%
12	93	4%	1%
13	95	2%	-3%
14	93	4%	-3%
15	94	1%	-2%
16	90	3%	-7%

QS24-13W-DRY-40

4262 K

CRI: 98.0

CRI R9: 95.4

TM30 Rf: 93.8

TM30 Rg: 100.1

CQS: 96.6

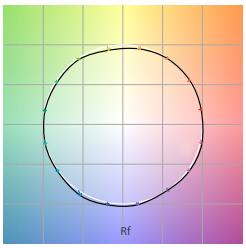
X: 0.371

Y: 0.373

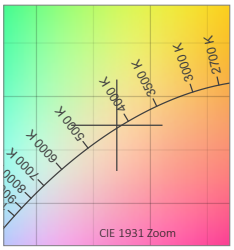
U: 0.220

V: 0.332

Δuv: 0.0013







R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
97.9	99.2	97.7	98.4	98.1	97.4	98.0	97.1	95.4	99.1	96.7	77.9	97.9	98.2	96.0
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
93.2	98.3	93.9	94.3	96.9	98.6	99.6	99.4	98.2	97.2	97.8	97.1	97.6	98.8	96.3
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
95.9	97.3	96.3	94.0	92.9	97.2	94.9	94.1	92.0	92.7	90.2	93.9	94.3	95.2	91.2	91.0

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

QS24-13W-DRY-65

6358 K

CRI: 96.1

CRI R9: 89.1

TM30 Rf: 91.1

TM30 Rg: 98.7

CQS: 94.2

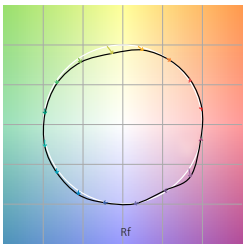
X: 0.314

Y: 0.338

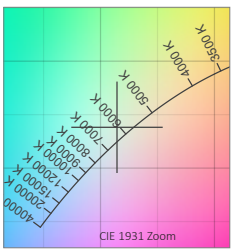
U: 0.196

V: 0.316

Δuv: 0.0037







R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
97.2	96.3	96.1	95.7	97.3	96.8	94.6	94.6	89.1	90.8	96.7	78.8	95.7	97.2	93.4
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
90.1	94.2	98.3	98.1	98.0	97.0	97.4	96.2	92.1	90.3	91.9	92.7	95.1	98.7	94.7
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
93.6	95.8	91.0	88.2	83.9	92.5	94.5	90.3	91.2	91.2	91.8	92.8	91.7	93.4	86.1	96.2

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

Q-SHEETS-DW

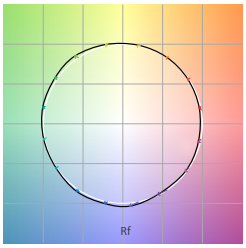
Flexible LED Panels Color Data

23W

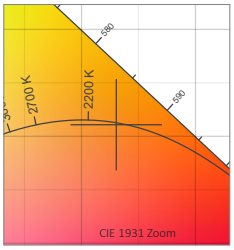
QS24-23W-DRY-20

1956 K

CRI: 96.1
CRI R9: 81.3
TM30 Rf: 94.6
TM30 Rg: 102.0
CQS: 82.6
X: 0.530
Y: 0.411
U: 0.309
V: 0.359
Δuv: -0.0006







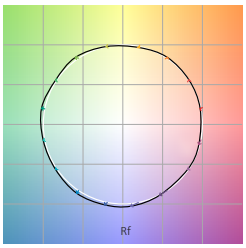
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
98.9	98.6	98.3	96.8	97.7	93.2	94.3	90.9	81.3	98.7	90.6	89.9	98.1	97.1	95.8
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
80.3	82.3	84.9	84.7	83.1	80.8	81.0	82.9	84.4	85.2	85.4	85.4	84.5	81.5	81.3
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
95.3	95.6	96.2	96.8	97.0	93.2	94.9	95.3	96.1	97.1	95.6	93.3	89.5	77.6	91.1	92.2

TM30			
Hue Bin	R_f	Chroma	Hue
1	95	-2%	0%
2	96	-1%	2%
3	96	0%	1%
4	97	1%	1%
5	97	2%	2%
6	93	4%	3%
7	95	3%	-2%
8	95	3%	-1%
9	96	1%	-1%
10	97	1%	-1%
11	96	3%	-1%
12	93	3%	-3%
13	89	3%	-11%
14	78	-2%	-13%
15	91	-1%	-6%
16	92	-3%	-5%

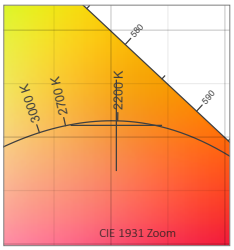
QS24-23W-DRY-22

2183 K

CRI: 95.5
CRI R9: 91.1
TM30 Rf: 94.7
TM30 Rg: 102.5
CQS: 89.2
X: 0.505
Y: 0.411
U: 0.292
V: 0.356
Δuv: -0.0014







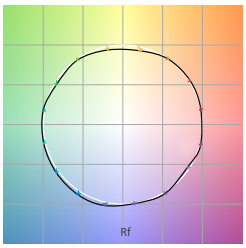
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
95.8	96.9	98.2	94.6	94.8	91.5	96.1	95.9	91.1	95.5	88.9	87.0	95.3	97.2	99.3
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
87.7	88.3	90.8	90.9	89.9	88.3	87.9	89.8	90.7	91.5	91.0	91.1	91.4	87.0	88.3
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
96.3	96.9	94.7	96.1	96.1	93.9	95.7	94.8	95.8	96.8	94.2	93.0	90.4	84.2	95.2	91.3

TM30			
Hue Bin	R_f	Chroma	Hue
1	96	-1%	1%
2	97	0%	0%
3	95	1%	1%
4	96	-1%	-2%
5	96	0%	2%
6	94	3%	3%
7	96	1%	1%
8	95	4%	0%
9	96	2%	0%
10	97	2%	0%
11	94	4%	0%
12	93	4%	-3%
13	90	3%	-10%
14	84	0%	-11%
15	95	-1%	-2%
16	91	-1%	-6%

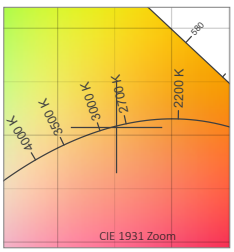
QS24-23W-DRY-27

2794 K

CRI: 95.9
CRI R9: 97.8
TM30 Rf: 93.0
TM30 Rg: 100.0
CQS: 94.9
X: 0.452
Y: 0.407
U: 0.259
V: 0.350
Δuv: -0.0005







R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
94.6	97.0	97.8	94.8	94.8	93.3	97.5	97.8	97.8	95.6	91.2	85.6	94.8	97.2	96.5
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
90.6	94.4	95.7	96.3	96.7	97.0	97.6	96.8	96.2	96.0	95.2	94.5	95.4	94.6	93.4
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
94.9	96.2	94.6	90.7	94.4	95.6	89.9	94.9	92.5	92.0	92.7	90.7	91.3	92.4	91.9	90.5

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

Flexible LED Panels Color Data

QS24-23W-DRY-30

3062 K

CRI: 97.6

CRI R9: 98.8

TM30 Rf: 95.4

TM30 Rg: 102.4

CQS: 95.9

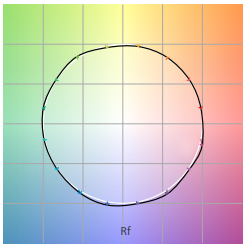
X: 0.433

Y: 0.402

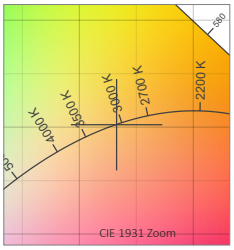
U: 0.249

V: 0.347

Δuv: -0.0002







R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
97.4	99.7	94.9	95.6	98.1	97.8	98.9	98.6	98.8	97.9	92.6	86.7	98.0	96.1	98.3
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
96.2	97.1	92.6	95.5	97.1	94.1	94.9	98.2	96.8	97.3	97.8	96.7	96.6	97.1	97.2
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
97.0	97.8	96.7	97.7	94.6	95.7	94.8	96.7	96.9	95.9	93.1	92.6	95.3	93.3	93.6	90.2

TM30			
Hue Bin	R_f	Chroma	Hue
1	97	0%	0%
2	98	0%	-1%
3	97	0%	0%
4	98	-1%	0%
5	95	-2%	2%
6	96	2%	2%
7	95	1%	1%
8	97	2%	0%
9	97	1%	1%
10	96	0%	2%
11	93	2%	5%
12	93	4%	1%
13	95	2%	-3%
14	93	4%	-3%
15	94	1%	-2%
16	90	3%	-8%

QS24-23W-DRY-40

4259 K

CRI: 97.9

CRI R9: 95.3

TM30 Rf: 93.6

TM30 Rg: 100.0

CQS: 96.4

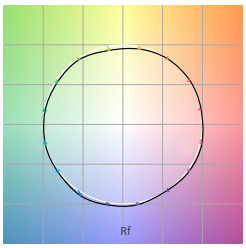
X: 0.371

Y: 0.374

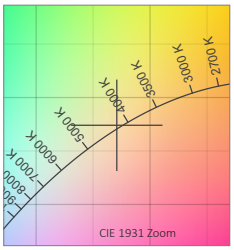
U: 0.220

V: 0.333

Δuv: 0.0017







R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
97.9	99.2	97.7	98.3	98.1	97.4	97.8	97.0	95.3	99.0	96.8	77.4	97.9	98.2	96.0
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
92.9	98.1	94.0	94.3	96.8	98.4	99.5	99.3	97.9	96.7	97.5	96.9	97.3	98.8	96.2
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
95.9	97.2	96.1	93.6	92.6	97.0	94.7	93.9	91.7	92.4	90.1	93.9	94.2	95.1	91.1	90.8

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

QS24-23W-DRY-65

6412 K

CRI: 94.5

CRI R9: 84.3

TM30 Rf: 89.9

TM30 Rg: 98.3

CQS: 93.1

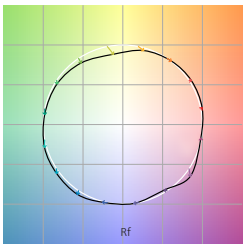
X: 0.314

Y: 0.337

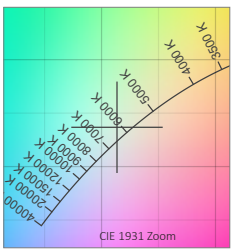
U: 0.196

V: 0.315

Δuv: 0.0035







R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
95.7	94.9	94.6	94.1	96.0	95.1	93.0	92.9	84.3	87.3	96.0	78.2	94.3	96.4	92.0
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
88.7	92.5	98.2	98.2	97.5	95.8	96.3	95.0	90.4	88.4	90.4	91.6	94.6	98.1	93.5
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
92.5	95.0	89.2	86.3	81.5	91.0	93.4	88.6	90.0	90.5	91.3	91.2	90.7	92.6	85.9	95.4

TM30			
Hue Bin	R_f	Chroma	Hue
1	92	2%	1%
2	95	2%	-2%
3	89	0%	-6%
4	86	-4%	-8%
5	81	-11%	-6%
6	91	-7%	1%
7	93	-3%	3%
8	89	-1%	7%
9	90	2%	9%
10	91	3%	5%
11	91	5%	1%
12	91	1%	-6%
13	91	0%	-6%
14	93	-3%	-3%
15	86	7%	-7%
16	95	-1%	2%

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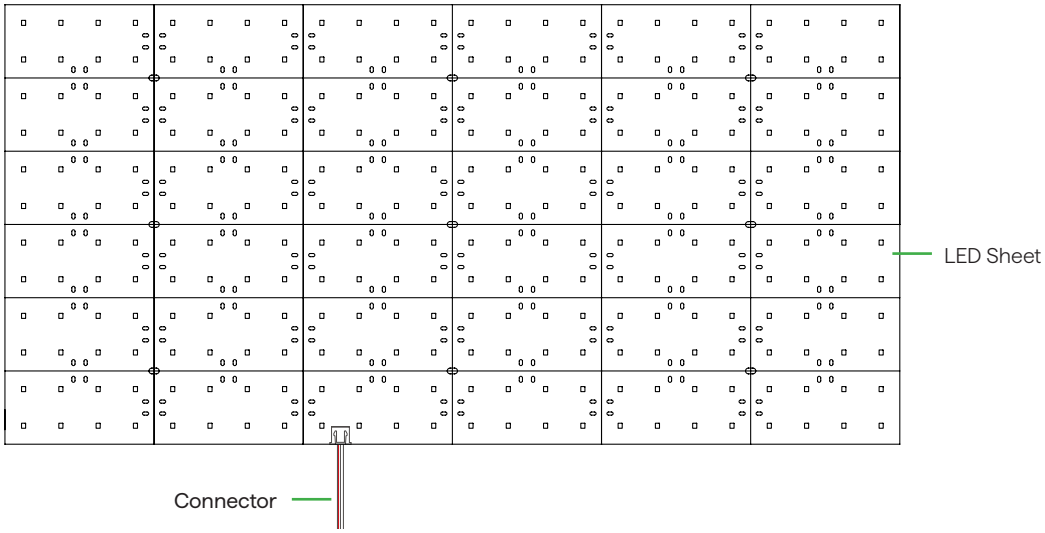
Specification subject to change. Rev-02-27-24

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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