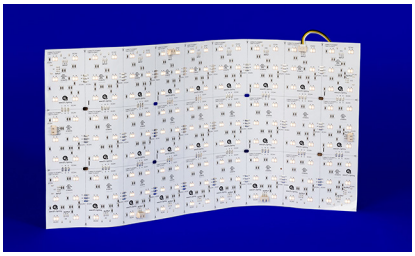
Q-SHEETS DW - WARM DIM APPLICATIONS

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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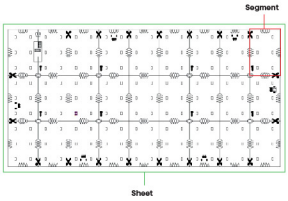
Q-SHEETS DW - WARM DIM APPLICATIONS

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

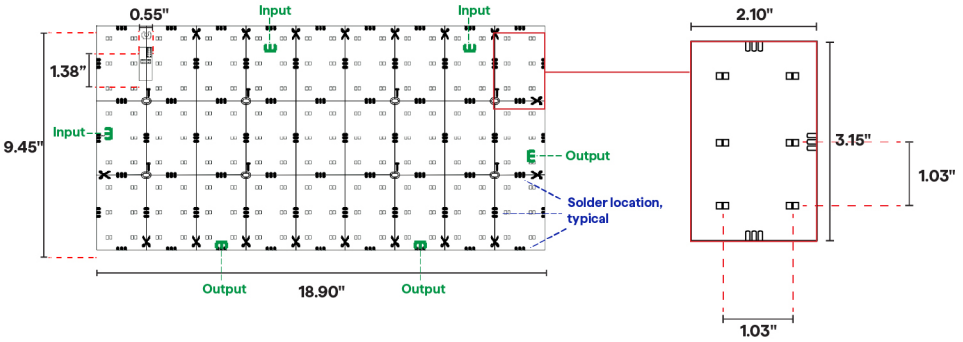
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Q-SHEETS DW - WARM DIM APPLICATIONS

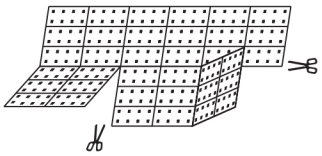
24VDC Dimmable Flexible Sheet

DIMENSIONS

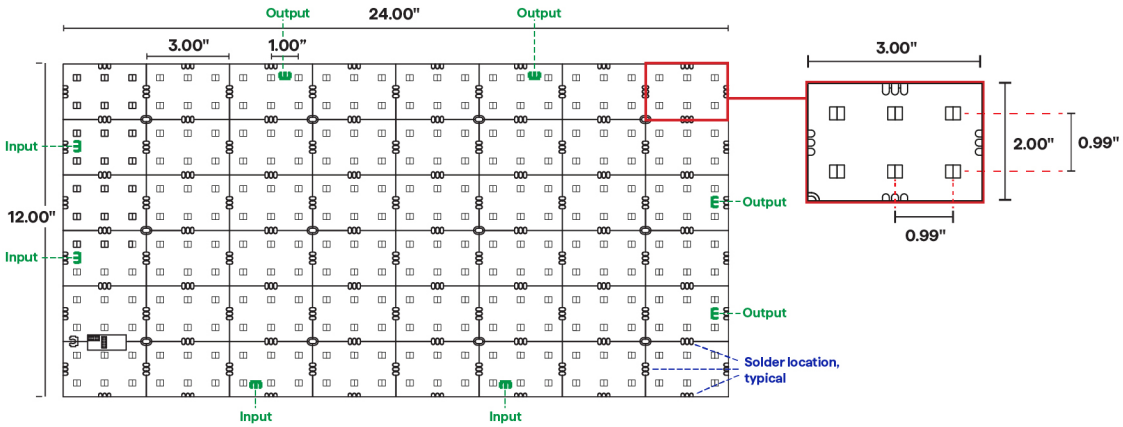
13W per sheet
0.48W per segment



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"

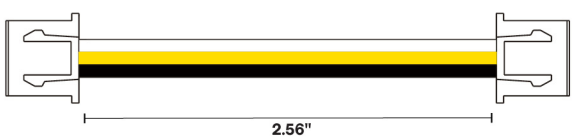
CONNECTORS

QS-LEAD-DW



Sold in packs of 5

QS-EXTEND-DW



Sold in packs of 5

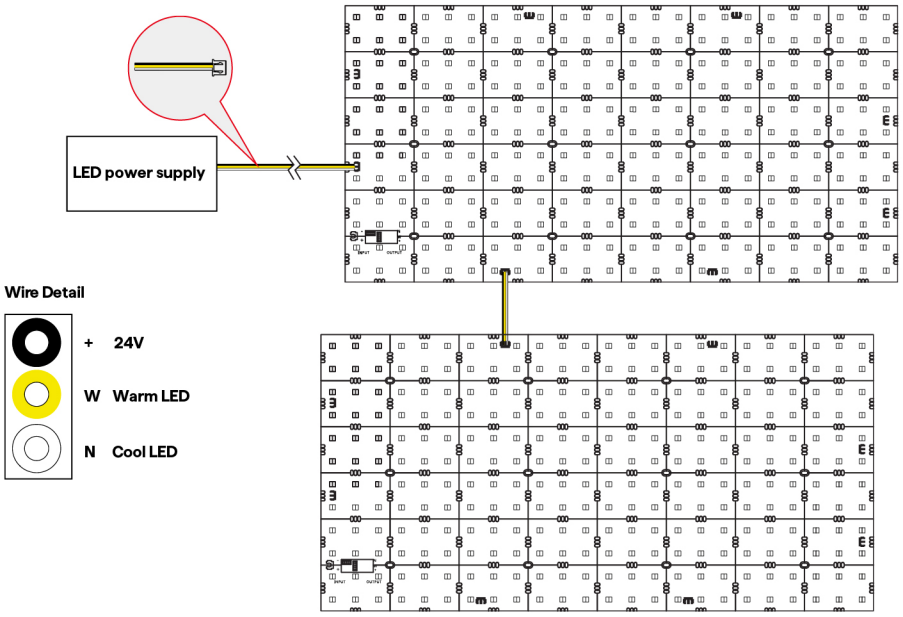
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Specification subject to change. Rev-11-11-26

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

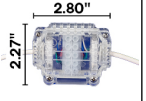
See power supplies cut sheets for more information. Data subject to change, all data has +/- 5% tolerance.

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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Q-SHEETS DW - WARM DIM APPLICATIONS

24VDC Dimmable Flexible Sheet

COMPATIBLE APPS

NFC APP

Q-NFC

Read and write DMX addresses and adjust voltage

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