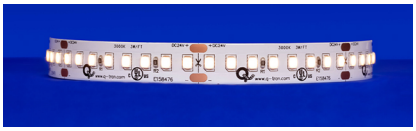
SW-HE24/1.5

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 768"
- Ambient operating temp: -4-160°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-HE24/1.5							

Sample Part Number: **SW-HE24/1.5-DRY-22-BW-CON24-WH-CL2-48"**

1 V/WATTS

SW-HE24/1.5

Voltage: 24VDC
Wattage: 1.5W/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"-768" in 2" increments
DMP: 2"-768" in 2" increments
WET: 2"-360" in 2" increments

Dry version also available in reel lengths of 64' (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 | Title 24 - JA8-2019 Strips: DRY and WET rated, 2000K and above

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SW-HE24/1.5

LED Strips - Static White High Efficacy

3 CCT – LUMENS/CRI - DELIVERED LUMENS

DRY

[Calculated L70 = 66000 hrs]
Tested with SW-HE24/1.5-DRY

CCT	Lumen/ft	Luminous Efficacy	CRI Ra	CRI R9	TM30 Rf	TM30 Rg
1800K	**	**	**	**	**	**
2000K	187	130 Lm/W	94	63	91	102
2200K	188	131 Lm/W	96	92	95	100
2400K	196	136 Lm/W	96	96	93	99
2700K	210	146 Lm/W	97	97	94	100
3000K	222	154 Lm/W	98	97	93	100
3500K	232	161 Lm/W	97	96	91	98
4000K	231	160 Lm/W	97	99	91	99

DMP

[Calculated L70 = 66000 hrs]
Tested with SW-HE24/1.5-DMP

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

WET

[Calculated L70 = 66000 hrs]
Tested with SW-HE24/1.5-WET

CCT	Lumen/ft	CRI Ra
1800K	**	**
2000K	170	93
2200K	172	96
2400K	182	96
2700K	188	97
3000K	199	98
3500K	212	98
4000K	208	97

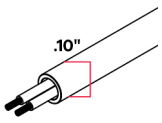
TEMPERATURE RATINGS

		Min	Max
DRY	Ambient Operating Temp - Surface	-4°F	160°F
	Storage Temp	-4°F	140°F
	Installation Temp	50°F	100°F

4/5 CONNECTOR/WIRE – IN/OUT

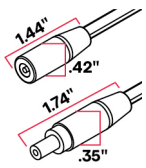
Connector/Wire In or Out not needed to specify product. Standard configuration is BW for Wire In and CLS for Wire out

BW



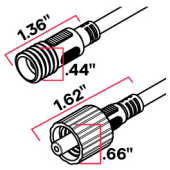
Bare Wire 24"
Stranded 22 AWG

BRL



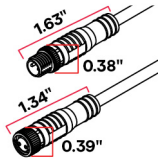
Barrel 6" - DRY/DMP | 22 AWG

BRL



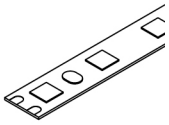
Barrel 6"- WET | 22 AWG

CON6/CON24



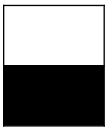
6" or 24" Overall
Wire Connector | 22 AWG
IP67 Rated, UL Listed

CLS



Not soldered

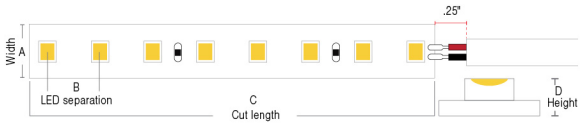
6 WIRE COLOR



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-HE24/1.5

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 QTM-DC+CAP iQ-PH+QD1	QOM-DC+CAP QOM-PH
0.1%	QT-CAB-QZ-PH/0-10V QT-CAB-eLED+0-10V QT-CAB-eLED+0-10V-AWN QT-CAB-eLED+DALI-DT6 QT-CAB-eLED+DALI-DT6-AWN QTM-eLED+0-10V QTM-eLED+0-10V-AWN QTM-eLED+DALI-DT6 QTM-eLED+DALI-DT6-AWN QZ-BOWTIE+DIMMER QZ-DMX QZ-PRO-PH/0-10V QZ-STICK-PH/0-10V QZLP	Q-SET-QZ-DMX Q-SET-QZ-PH/0-10V Q-SET-eLED+0-10V QOM-eLED+0-10V QOM-eLED+DALI-DT6 QOM-eLED+DALI-DT6-PS QZ-DMX QZ-PRO-PH/0-10V
1%	Q-DIM QTM-eLED(E) QZ-DALI-DT6	Q-SET+QZ-DALI-DT6 QZ-DALI-DT6
10%	Non-Dim Power Supply with SW App Dongle	

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SW-HE24/1.5

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

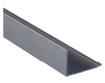
COMPATIBLE MOUNTING ACCESSORIES

QUOVA-MICRO



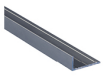
QUOVA Knife Edge

BL-GRAZER



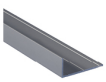
Backwards L Mounting Bracket

BL-MICRO



Backwards L Mounting Bracket

BL-LARGE



Backwards L Mounting Bracket

SD-L-LARGE



L Mounting Bracket

SD-L-MEDIUM



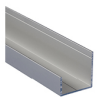
L Mounting Bracket

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-HE24/1.5

LED Strips - Static White High Efficacy

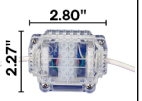
COMPATIBLE WIRING ACCESSORIES

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

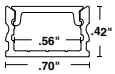
Diode free or near Diode free

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

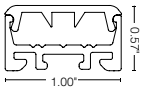
LALO



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

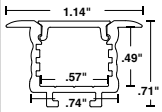
OPTI



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

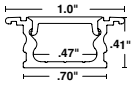
EMBD



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

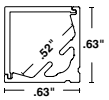
LATO



Dimensions for FLAT-01 Lens Shown

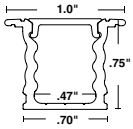
LENS	Finish		
	Satin (ST)	Black (BK)	Bronze (BZ)
CL	0.77	0.64	0.64
FR	0.77	0.64	0.64
PR	0.64	0.50	0.50
DF	0.61	0.46	0.46
ENC/CL	0.57	0.37	0.37
ENC/TL	0.36	0.20	0.20

TELA



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

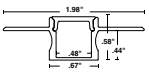
FLUR



Dimensions for FLAT-01 Lens Shown

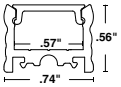
LENS	Finish		
	Satin (ST)	Black (BK)	Bronze (BZ)
FR	0.68	0.50	N/A
PR	0.61	0.44	N/A
DF	0.40	0.30	N/A
ENC/CL	0.46	0.25	N/A
ENC/TL	0.30	0.13	N/A
45°	0.70	0.53	N/A
60°	0.71	0.54	N/A
80°	0.75	0.57	N/A

MDIN-S



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

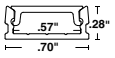
TALO



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

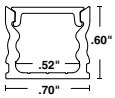
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SW-HE24/1.5W-9.0W

LED STRIPS - Lumen Multiplier

Diode free or near Diode free

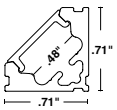
TORQ



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

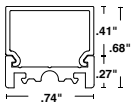
VEVE



Dimensions for FLAT-01 Lens Shown

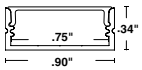
LENS	Finish		
	Satin (ST)	Black (BK)	Bronze (BZ)
CL	0.79	0.69	N/A
FR	0.77	0.68	N/A
PR	0.71	0.58	N/A
DF	0.64	0.50	N/A
ENC/CL	0.63	0.50	N/A
ENC/TL	0.42	0.29	N/A
20°	0.83	0.78	N/A
45°	0.91	0.85	N/A

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



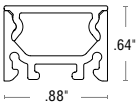
LENS	Size		
	Small	Medium	Large
FR	0.85	0.89	0.88
DF	0.69	0.77	0.74

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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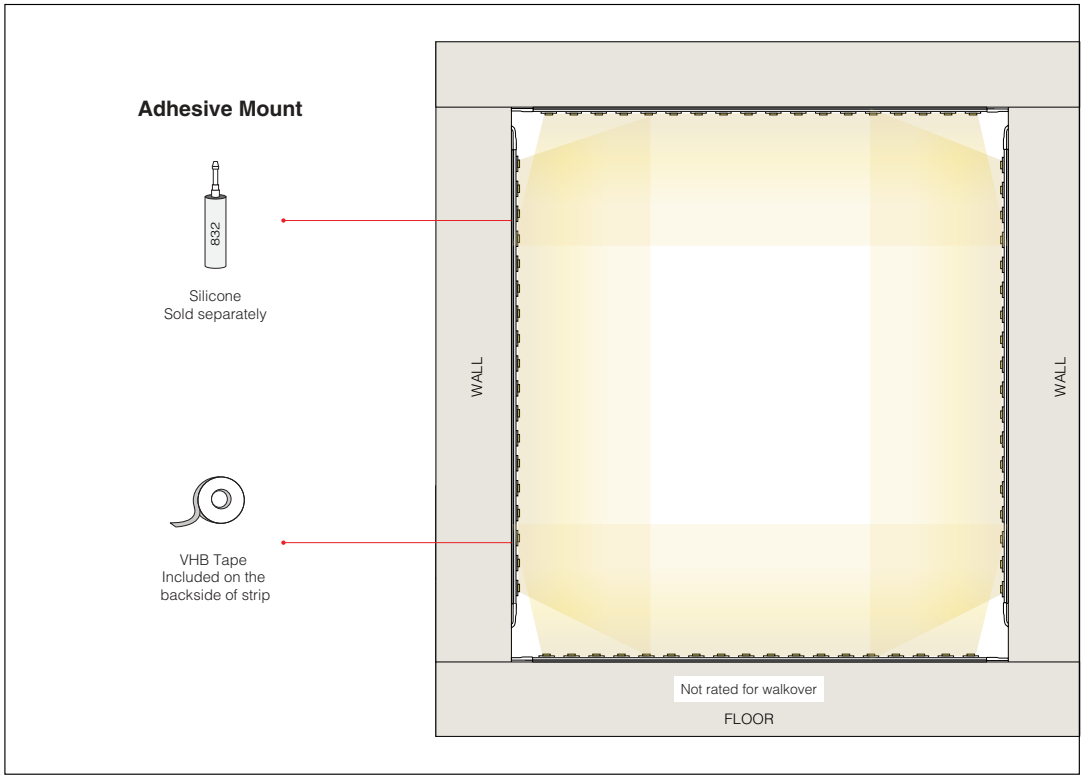
LINEAR LED STRIP

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:

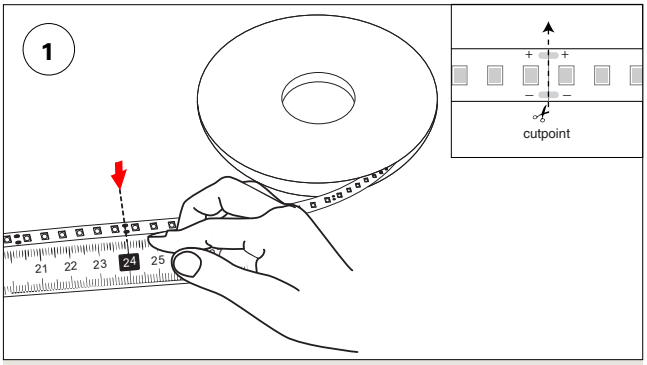
- *Avoid bending in sharp angles which may damage the LED.*
- *Always test LED operation before installing in extrusion. Connect LED to power supply to ensure it is working properly and all non-factory soldered connections are secure.*
- *Diagrams for representation only and not to scale.*

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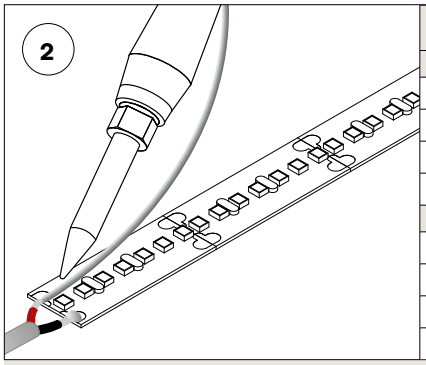
LINEAR LED STRIP
Installation Instructions

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.

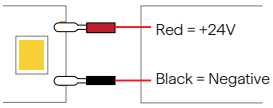


ITEMS INCLUDED
iQ-LED-24-KIT
(1) 24" Lead wire
(1) 6" Solder
(1) 1" Shrink Tube
(1) 1/2" Shrink Tube
iQ-JUMP-6-KIT
(1) 6" Lead wire
(1) 6" Solder
(2) 1" Shrink Tube
(2) 1/2" Shrink Tube

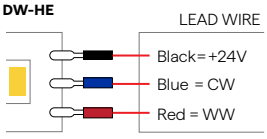
Solder lead wire onto solder pad. Confirm wires are matched up correctly before soldering. See wiring diagrams below for specific light engine details.

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

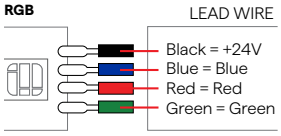
SW, SC, SD-SW, SW-HE, SW-HE+



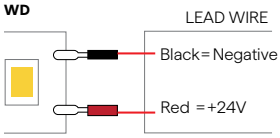
DW-HE



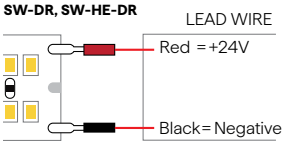
RGB



WD



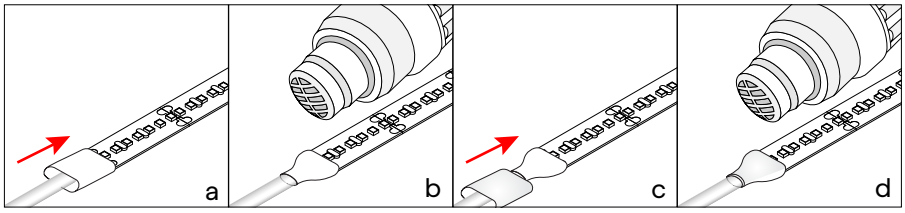
SW-DR, SW-HE-DR



*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:

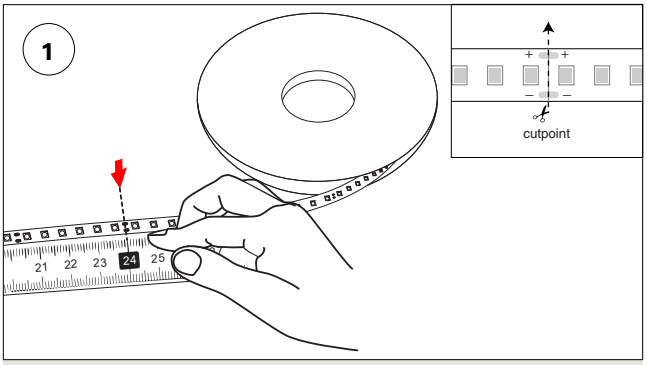
- *Avoid bending in sharp angles which may damage the LED.*
- *Always test LED operation before installing in extrusion. Connect LED to power supply to ensure it is working properly and all non-factory soldered connections are secure.*
- *Diagrams for representation only and not to scale.*

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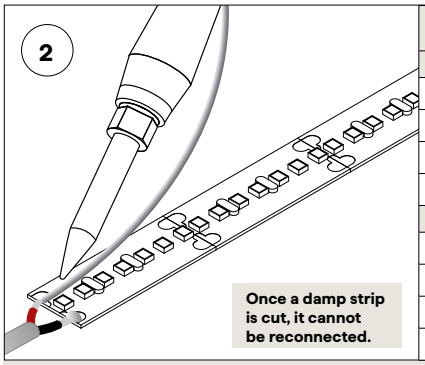
LINEAR LED STRIP
Installation Instructions

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

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



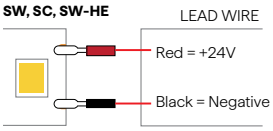
Measure and cut LED strip to desired length with scissors along the cut point.

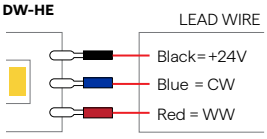


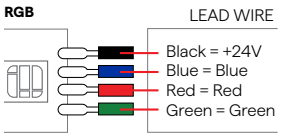
ITEMS INCLUDED
iQ-LED-24-KIT
(1) 24" Lead wire
(1) 6" Solder
(1) 1" Shrink Tube
(1) 1/2" Shrink Tube
iQ-JUMP-6-KIT
(1) 6" Lead wire
(1) 6" Solder
(2) 1" Shrink Tube
(2) 1/2" Shrink Tube

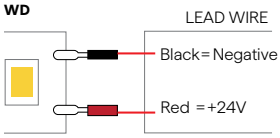
Solder lead wire onto solder pad. Confirm wires are matched up correctly before soldering. See wiring diagrams below for specific light engine details.

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



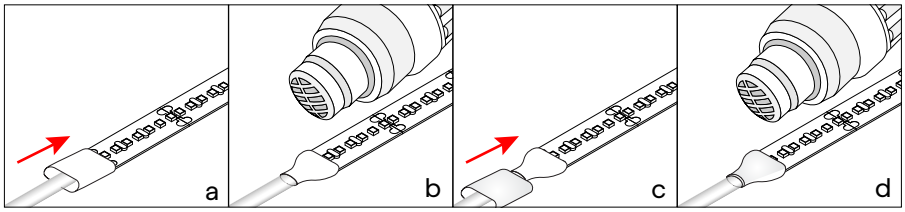






3

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:

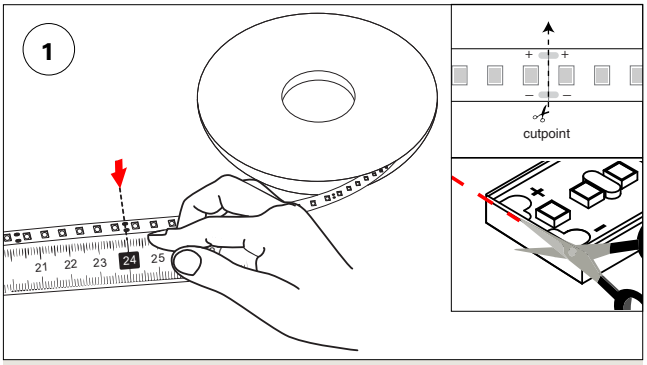
- *Avoid bending in sharp angles which may damage the LED.*
- *Always test LED operation before installing in extrusion. Connect LED to power supply to ensure it is working properly and all non-factory soldered connections are secure.*
- *Diagrams for representation only and not to scale.*

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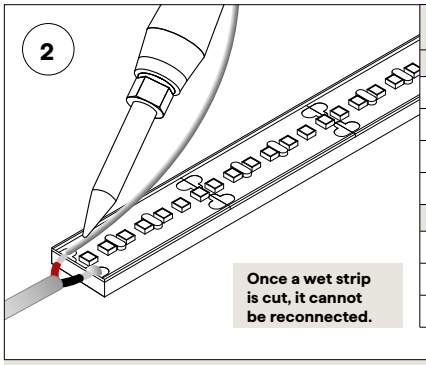
LINEAR LED STRIP
Installation Instructions

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

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



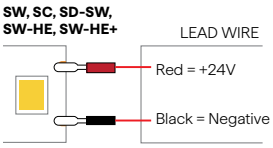
Measure and cut LED strip to desired length with scissors along the cut point.

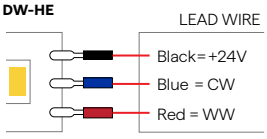


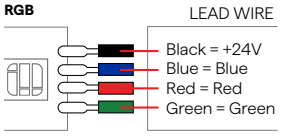
ITEMS INCLUDED
iQ-LED-67-KIT
(1) 24" Lead wire
(1) 6" Solder
(1) Lead wire cap
(1) End Cap
iQ-JUMP-67-KIT
(1) 6" Lead wire
(1) 6" Solder
(2) Lead wire Caps

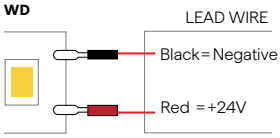
Solder lead wire onto solder pad. Confirm wires are matched up correctly before soldering. See wiring diagrams below for specific light engine details.

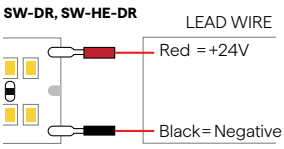
NOTE: Recommended soldering iron temperature of 650˚ – 700˚F for lead-free solder.







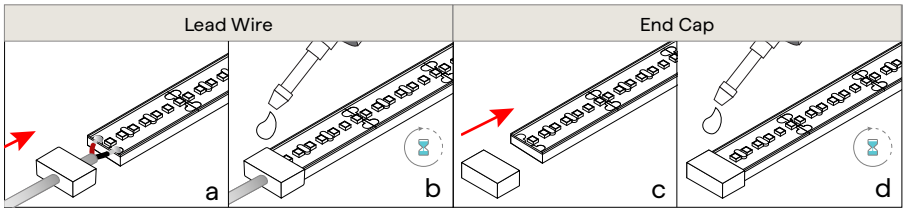




*Middle rail is optional 24V do not connect both 24V rails to power

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.

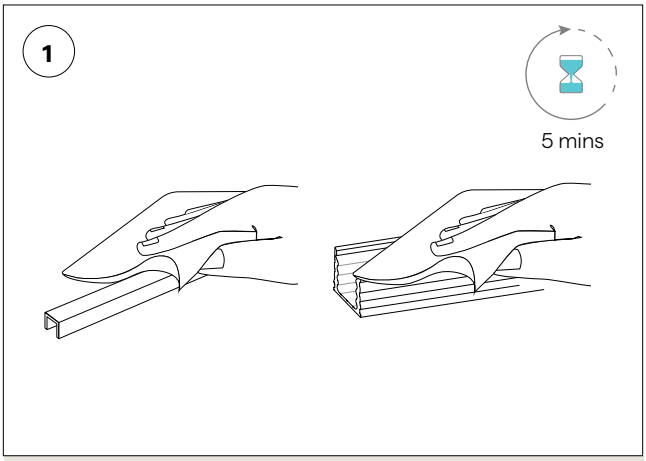
NOTES:

- *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.*

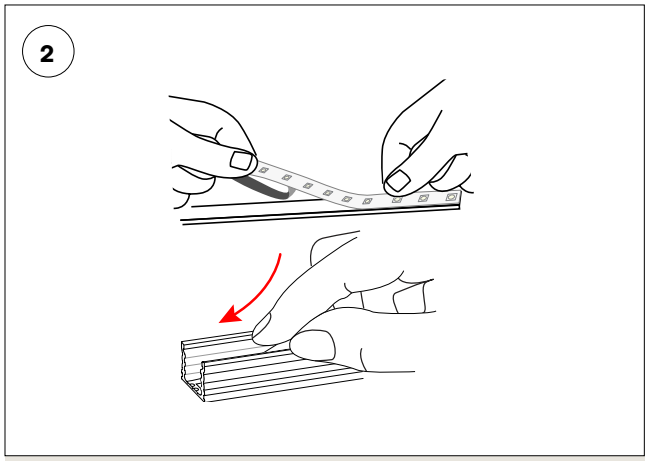
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LED INSERTION FOR IN-FIELD ASSEMBLY INSTALLATION

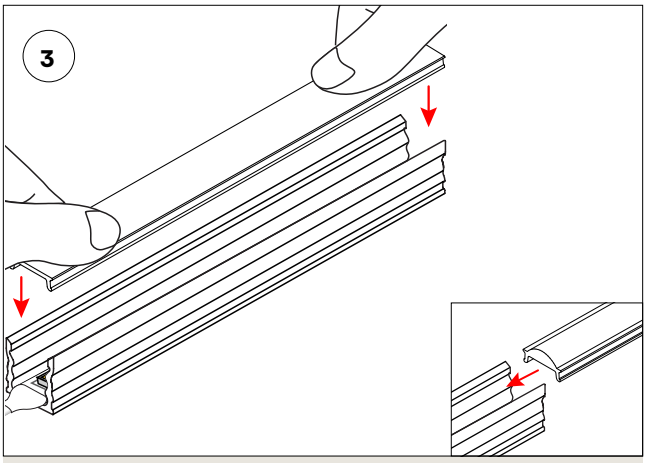
STRIP IN EXTRUSION



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).

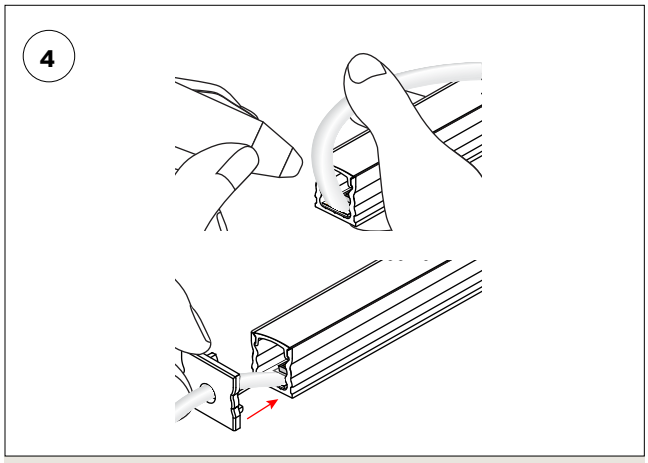


Gently place LED in extrusion/tray. Apply firm pressure to the bonding surface. This will reduce the chances of dust and debris from contaminating adhesive. The smallest amount of exposed adhesive is the best case.



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.



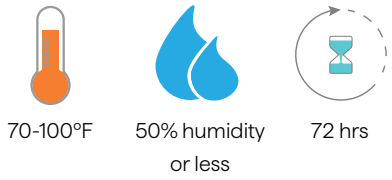
Add glue inside the end cap and glue around edges to secure end cap in place. Do not allow glue to come in contact with LED.

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SURFACE MOUNTING METHOD

SURFACE PREPARATION

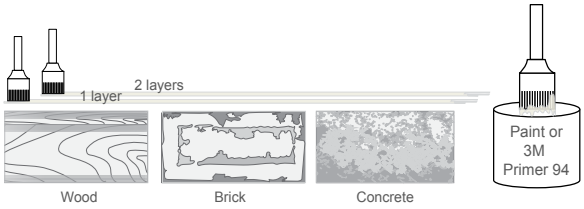
1



Temperature and environmental concerns:

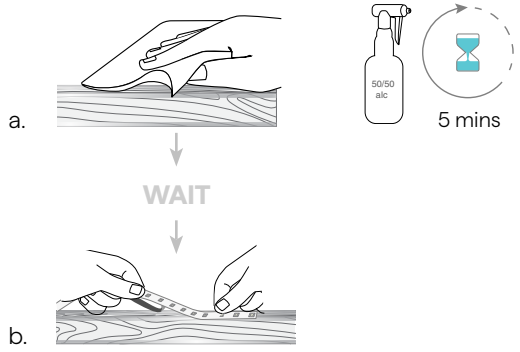
- Ideal application environment is 70-100°F in 50% humidity or less.
- Minimum application temperature: 50°F
- This temperature and humidity should be maintained for 72 hours after application for maximum bond strength.

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-HE24/1.5

Linear LED Strips Color Data

2000K

2032 K

CRI: 93.5

CRI R9: 62.8

TM30 Rf: 90.7

TM30 Rg: 102.4

CQS: 80.8

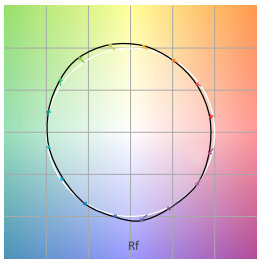
X: 0.522

Y: 0.412

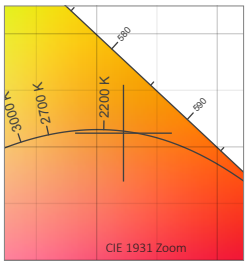
U: 0.303

V: 0.358

Δuv: -0.0006







R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
94.5	97.2	96.8	94.6	94.1	97.9	91.2	81.8	62.8	91.3	96.6	91.3	95.5	96.3	89.4
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
76.9	84.3	81.9	82.7	82.6	78.8	76.1	79.1	86.7	84.0	84.0	83.5	83.3	79.8	78.2
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
91.1	89.7	88.5	91.2	92.0	89.7	88.5	91.2	93.7	94.5	92.7	90.7	90.1	74.9	87.7	88.9

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

2200K

2283 K

CRI: 96.0

CRI R9: 92.3

TM30 Rf: 94.5

TM30 Rg: 99.7

CQS: 91.2

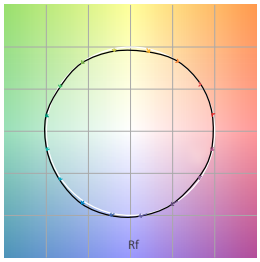
X: 0.497

Y: 0.414

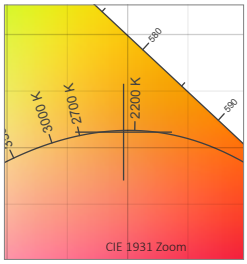
U: 0.285

V: 0.356

Δuv: -0.0005







R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
96.4	97.0	98.9	95.6	95.4	92.4	96.3	96.2	92.3	95.3	91.0	87.7	95.8	97.8	99.2
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
88.1	90.2	92.8	92.5	93.2	93.0	92.7	92.6	91.9	92.1	91.5	91.5	92.5	90.3	89.8
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
95.9	96.9	95.8	93.0	95.9	95.4	94.5	95.3	94.4	95.9	94.2	92.3	90.0	88.8	95.1	93.8

TM30			
Hue Bin	R_f	Chroma	Hue
1	96	-1%	1%
2	97	0%	0%
3	96	0%	-1%
4	93	-4%	-4%
5	96	-3%	0%
6	95	-1%	3%
7	94	-1%	3%
8	95	2%	2%
9	94	2%	3%
10	96	2%	1%
11	94	4%	0%
12	92	3%	-4%
13	90	1%	-10%
14	89	-1%	-8%
15	95	-2%	0%
16	94	-1%	-4%

2400K

2521 K

CRI: 96.3

CRI R9: 95.8

TM30 Rf: 93.1

TM30 Rg: 99.2

CQS: 93.4

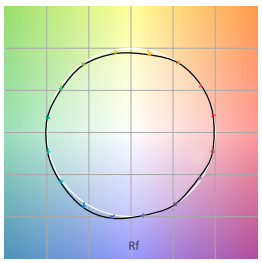
X: 0.474

Y: 0.411

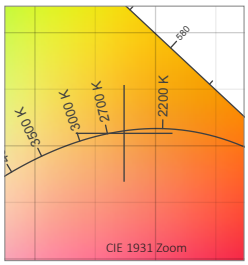
U: 0.271

V: 0.353

Δuv: -0.0008







R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
96.2	96.8	99.3	96.4	95.6	92.9	96.3	97.1	95.8	94.9	93.3	86.1	95.7	98.3	98.2
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
88.8	92.7	95.7	94.9	93.9	93.4	95.4	95.9	94.7	94.9	94.6	94.6	95.5	93.0	91.7
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
94.6	96.6	95.6	89.8	94.5	95.0	92.1	94.6	91.3	93.2	91.9	91.0	91.6	91.5	93.4	92.3

TM30			
Hue Bin	R_f	Chroma	Hue
1	95	0%	2%
2	97	0%	0%
3	96	0%	-2%
4	90	-5%	-5%
5	95	-5%	0%
6	95	-2%	3%
7	92	-3%	4%
8	95	1%	4%
9	91	2%	5%
10	93	3%	3%
11	92	6%	2%
12	91	4%	-4%
13	92	0%	-7%
14	92	0%	-5%
15	93	-3%	1%
16	92	0%	-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-HE24/1.5

Linear LED Strips Color Data

2700K

2788 K

CRI: 97.2

CRI R9: 97.3

TM30 Rf: 93.6

TM30 Rg: 99.8

CQS: 95.0

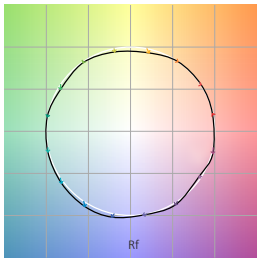
X: 0.451

Y: 0.405

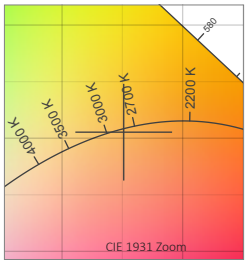
U: 0.259

V: 0.349

Δuv: -0.0012







R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
96.9	97.8	98.4	97.8	96.9	95.1	97.2	97.8	97.3	97.4	95.4	84.9	96.7	97.8	97.8
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
91.2	95.4	94.0	93.6	94.4	95.9	96.7	97.1	97.5	97.9	97.4	97.0	97.5	94.9	93.8
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
95.1	97.2	96.2	91.9	94.9	96.8	90.9	96.3	92.3	90.7	91.7	92.3	93.6	93.1	92.7	91.0

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%	5%
8	96	0%	2%
9	92	1%	5%
10	91	2%	6%
11	92	4%	5%
12	92	4%	-2%
13	94	0%	-5%
14	93	2%	-5%
15	93	-3%	1%
16	91	1%	-7%

3000K

3116 K

CRI: 97.8

CRI R9: 97.2

TM30 Rf: 93.3

TM30 Rg: 99.9

CQS: 95.0

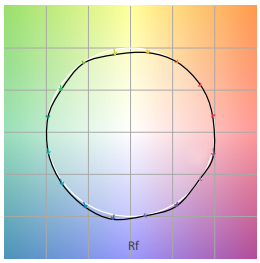
X: 0.428

Y: 0.398

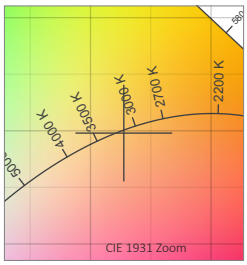
U: 0.247

V: 0.345

Δuv: -0.0011







R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
97.8	98.7	97.9	98.9	97.8	96.5	97.4	97.6	97.2	99.3	97.4	81.3	97.8	97.8	97.7
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
91.7	96.4	92.3	91.8	93.7	96.3	96.6	97.3	97.7	98.0	98.2	98.3	98.5	95.9	94.7
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
95.0	97.2	96.6	93.3	92.7	97.0	91.2	96.5	91.7	88.8	90.4	91.8	94.7	92.9	91.5	90.4

TM30			
Hue Bin	R_f	Chroma	Hue
1	95	-1%	1%
2	97	0%	0%
3	97	0%	0%
4	93	-3%	-2%
5	93	-6%	0%
6	97	-1%	1%
7	91	-4%	4%
8	97	0%	2%
9	92	0%	6%
10	89	2%	7%
11	90	4%	6%
12	92	6%	-1%
13	95	1%	-4%
14	93	3%	-4%
15	92	-1%	-1%
16	90	2%	-8%

3500K

3589 K

CRI: 97.4

CRI R9: 95.8

TM30 Rf: 91.4

TM30 Rg: 98.3

CQS: 94.8

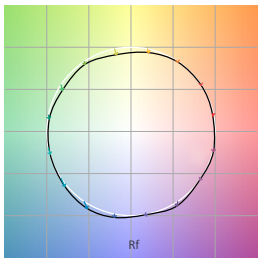
X: 0.401

Y: 0.389

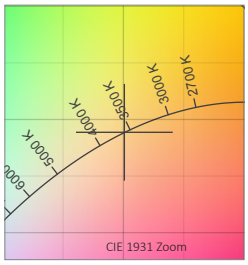
U: 0.234

V: 0.340

Δuv: 0.0002







R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
98.7	99.8	97.7	96.7	96.7	96.8	96.5	96.3	95.8	98.0	98.3	74.3	99.3	97.9	96.6
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
91.0	97.2	91.7	89.5	91.6	94.0	98.4	98.5	98.7	98.7	98.9	99.8	99.9	97.8	95.4
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
93.6	96.5	96.3	91.9	90.1	94.8	90.3	92.6	88.9	84.9	87.2	92.2	94.7	92.0	90.1	89.8

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

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-HE24/1.5

Linear LED Strips Color Data

4000K

4108 K

CRI: 96.9

CRI R9: 98.7

TM30 Rf: 91.3

TM30 Rg: 98.7

CQS: 94.0

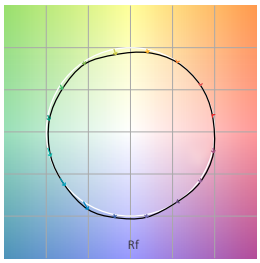
X: 0.376

Y: 0.375

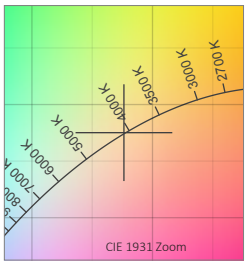
U: 0.223

V: 0.334

Δuv: 0.0005







R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
98.5	99.2	96.2	96.2	95.8	95.4	97.2	96.9	98.7	95.6	96.9	69.6	99.1	97.3	95.7
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
91.5	98.2	89.3	87.1	90.5	93.2	97.4	98.2	97.9	98.1	98.0	99.2	99.7	98.5	96.0
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
93.9	96.5	95.8	91.7	90.1	95.2	92.1	91.0	87.2	85.1	85.6	93.5	93.9	94.4	89.4	89.6

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	-4%	3%
8	91	-3%	5%
9	87	-1%	10%
10	85	0%	10%
11	86	5%	9%
12	93	3%	2%
13	94	3%	-2%
14	94	0%	-1%
15	89	2%	-4%
16	90	2%	-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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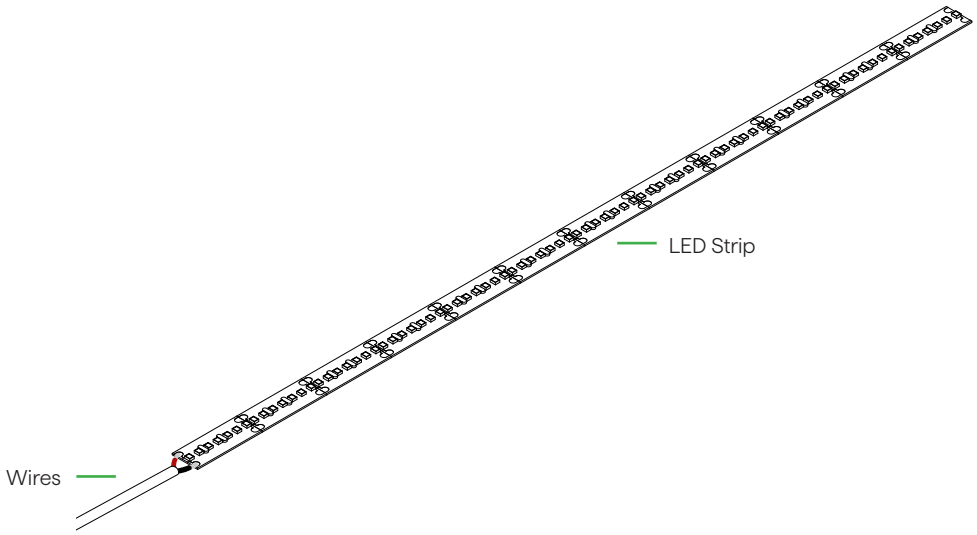
Specification subject to change. Rev-03-11-24

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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