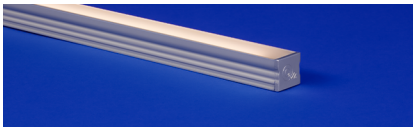
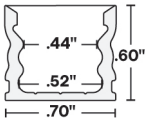
ESSENTIALS TORQ-ENCAPSULATED (03) STATIC WHITE

24VDC Linear Fixtures - Surface & Recessed





- Surface mount linear fixture
- Features high quality LED strips encapsulated in polyurethane in a rigid extrusion providing a robust fixture
- Encapsulation available in clear or translucent
- Suitable for indoor and outdoor locations (IK10)
- Mounting options include stainless steel clips, magnets, and low-profile magnet mounts
- Features painted end caps to match extrusion finish or clear end caps to achieve seamless appearance of long runs
- Suitable for installation in the storage area of a clothes closet when specified with LEDs at 4.0 watts or less per foot per NEC regulations
- Optional plastic louver accessory available in white or black for added glare control

INFORMATION REQUIRED FOR LIGHTING SCHEDULE

1 PRODUCT	2 WATTS/ FT	3 CCT	4 RATED	5 EFFICIENCY	6 LENS
			ENC		

ADDITIONAL INFORMATION REQUIRED TO ORDER

7 WIRE INPUT/ OUTPUT	8 CONNECTOR / WIRE IN	9 CONNECTOR / WIRE OUT	10 INPUT END CAP	11 OUTPUT END CAP	12 WIRE COLOR	13 WIRE TYPE	14 MOUNTING	15 FINISH	16 LENGTH (IN)	17 EXACT/ OPTIMAL

Sample Part Number: **TQ3SW-5.0-30-ENC-WO-TL-P1-BW-BW-STD-STD-BK-CL2-SST-ST-48"-E**

1 PRODUCT

TQ3SW
TQ3SW-USA

Select USA option for BAA and BABA projects.

See following pages for compatible power supplies.

2 WATTS/FT

1.5	1.5W/ft
3.0	3.0W/ft
4.0	4.0W/ft
5.0	5.0W/ft
1.5HE	1.5W/ft HE
3.0HE	3.0W/ft HE
6.0HE	6.0W/ft HE

3 CCT

22	2200K
24	2400K
27	2700K
30	3000K
35	3500K
40	4000K

4 RATED

ENC IP67

5 EFFICIENCY

STD	Standard
WO	White Optics

WhiteOptics - Internal coating, greater lumen output

6 LENS

CL	Clear
TL	Translucent

For representation of LED visibility, see Diode Visibility section on following pages.
For beam angles, see Photometric Performance section on following pages
For optional snap-on louver ordering, see External Louver Accessory section on following pages

7 WIRE INPUT/OUTPUT

SINGLE (Input only)

S1	End Feed
S2	Bottom Feed
S3	Left Side Feed
S4	Right Side Feed

PASS THROUGH (Input/output)

P1	End Feed
P2	Bottom Feed
P3	Left Side Feed
P4	Right Side Feed

For continuous mounting, consider bottom or side feed

8 CONNECTOR/WIRE IN

BW	Bare Wire (Standard 24")
BRL	Barrel
CON6	Connector 6"
CON24	Connector 24"

BW: Standard length is 24", Max length is 120". Request custom length by writing in part number next to BW (example: BW48)

9 CONNECTOR/WIRE OUT

CLS	Closed End (No feed)

BW	Bare Wire (Standard 24")
BRL	Barrel
CON6	Connector 6"
CON24	Connector 24"

BW: Standard length is 24", Max length is 120". Request custom length by writing in part number next to BW (example: BW48)

10 INPUT END CAP

STD	Standard
CL	Clear

STD - End cap matches fixture finish chosen

Select CL for continuous runs

11 OUTPUT END CAP

STD	Standard
CL	Clear

STD - End cap matches fixture finish chosen

Select CL for continuous runs

12 WIRE COLOR

WH	White
BK	Black
N/A	For Barrel

13 WIRE TYPE

CL2	Class 2
CL2P	Plenum Rated
N/A	For Barrel

CL2P only available with bare wire leads (BW)

14 MOUNTING

SST	Stainless Steel
M4	Low Profile Magnet
MG	Magnet

15 FINISH

ST	Satin
BK	Black
BZ	Bronze
CU	Custom

Custom finishes require a longer lead time, consult factory

16 LENGTH (IN)

Minimum length is 12", maximum length is 98" not including end caps. Contact us for lengths under 12".

17 EXACT/OPTIMAL

O	Optimal Illumination
E	Exact Specified Length

Exact fixtures match the exact length you specify, but they may have dim spots at the ends. Optimal fixtures are slightly shorter than the length specified, but provide full illumination from end to end. See Exact/Optimal Fixture Length charts.

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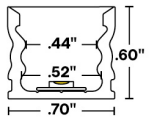
Specification subject to change. Rev-05-05-26

5 year warranty | Field modifications void warranty | Data subject to change, all data has +/- 5% tolerance | Compatible for use with QTL power supplies | Florida Fish and Wildlife Conservation Commission (FWC) rated Strips: Red and Amber | IK10 rated

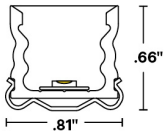
ESSENTIALS TORQ-ENCAPSULATED (03) STATIC WHITE

24VDC Linear Fixtures - Surface & Recessed

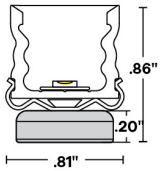
1 PRODUCT - DIMENSIONS



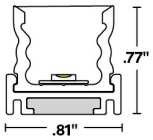
Profile



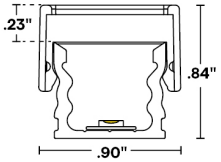
Profile with stainless steel mounting clip



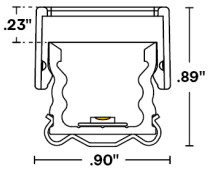
Profile with magnet mounting clip



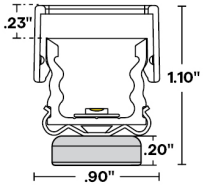
Profile with low profile magnet



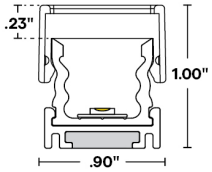
Profile with plastic louver



Profile with stainless steel mounting clip, and plastic louver



Profile magnet mounting clip, and plastic louver



Profile with low profile magnet, and plastic louver

2 DELIVERED LUMENS

[Calculated L70 = 40000 hrs]
Tested with TQ3SW-**-30-ENC-STD

	1.5 W/FT		1.5HE W/FT		3.0 W/FT		3.0HE W/FT		4.0 W/FT		5.0 W/FT		6.0HE W/FT	
	LM/FT	CRI	LM/FT	CRI	LM/FT	CRI	LM/FT	CRI	LM/FT	CRI	LM/FT	CRI	LM/FT	CRI
CL	92	98	128	98	161	98	234	98	200	98	244	98	443	98
TL	78	98	117	98	136	98	214	98	169	98	205	98	406	98

[Calculated L70 = 40000 hrs]
Tested with TQ3SW-**-30-ENC-WO

	1.5 W/FT		1.5HE W/FT		3.0 W/FT		3.0HE W/FT		4.0 W/FT		5.0 W/FT		6.0HE W/FT	
	LM/FT	CRI	LM/FT	CRI	LM/FT	CRI	LM/FT	CRI	LM/FT	CRI	LM/FT	CRI	LM/FT	CRI
CL	100	98	131	98	174	98	240	98	216	98	263	98	455	98
TL	88	98	119	98	153	98	218	98	190	98	232	98	412	98

TEMPERATURE RATINGS

	1.5 W/FT		1.5 HE W/FT		3.0 W/FT		3.0 HE W/FT		4.0 W/FT		5.0 W/FT		6.0 HE W/FT	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
Ambient Operating Temp - Surface	-4°F	130°F	-4°F	135°F	-4°F	125°F	-4°F	125°F	-4°F	120°F	-4°F	110°F	-4°F	115°F

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ESSENTIALS TORQ-ENCAPSULATED (03) STATIC WHITE

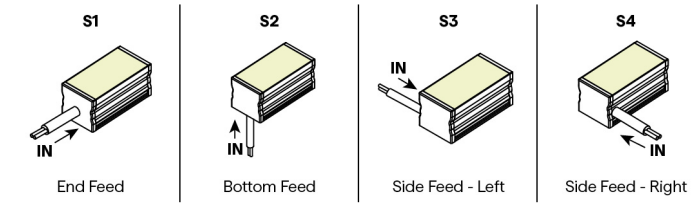
24VDC Linear Fixtures - Surface & Recessed

6 DIODE VISIBILITY

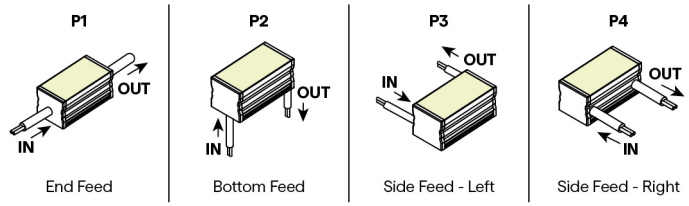


7 WIRE INPUT/OUTPUT

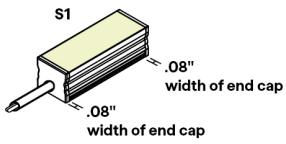
SINGLE (Input only)



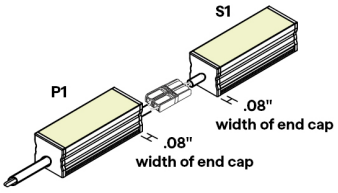
PASS THROUGH (Input/Output)



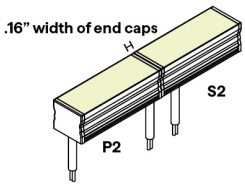
CONFIGURATION OPTIONS



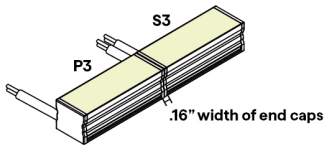
Single End Feed



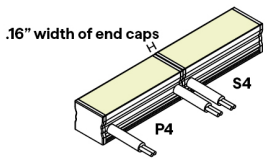
Non-Continuous End Feed



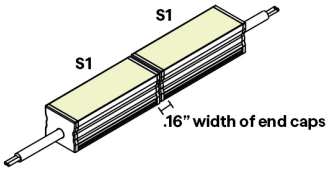
Continuous Bottom Feed



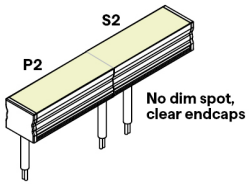
Continuous Side Feed - Left



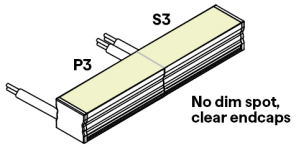
Continuous Side Feed - Right



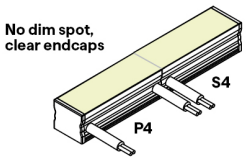
Continuous End to End Feed



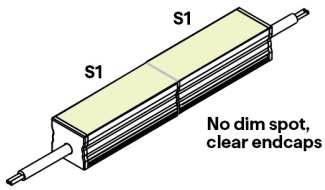
Continuous Bottom Feed



Continuous Side Feed - Left



Continuous Side Feed - Right



Continuous End to End Feed

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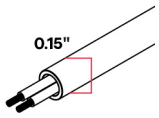
ESSENTIALS TORQ-ENCAPSULATED (03) STATIC WHITE

24VDC Linear Fixtures - Surface & Recessed

8/9 CONNECTOR/WIRE – IN/OUT

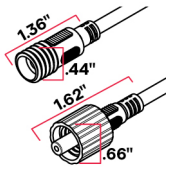
Connector/Wire In or Out not needed to specify product. Standard configuration is BW for Wire In and CLS for Wire out

BW



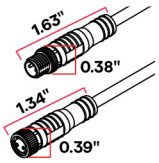
Bare Wire 24"
22 AWG

BRL



Barrel 6"- WET | 22 AWG

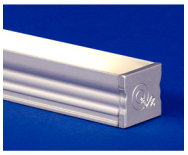
CON6/CON24



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

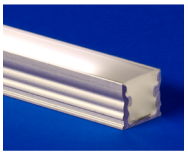
10/11 END CAP – IN/OUT

STD



End cap matches fixture finish chosen

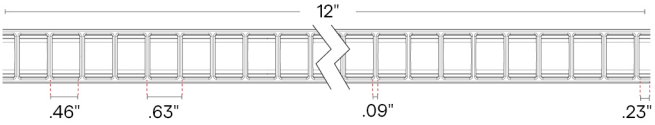
CL



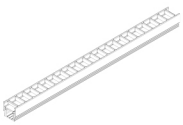
Clear end cap

EXTERNAL LOUVER ACCESSORY

PLASTIC

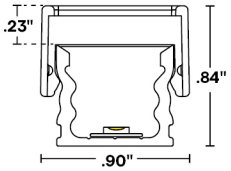


L1-XX



Lumen Multiplier

WH	BK
0.70	0.49



Profile with plastic louver

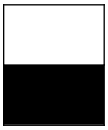
To order separately use
TORQ-L1-FLAT-KIT-WH or
TORQ-L1-FLAT-KIT-BK

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ESSENTIALS TORQ-ENCAPSULATED (03) STATIC WHITE

24VDC Linear Fixtures - Surface & Recessed

12 WIRE COLOR

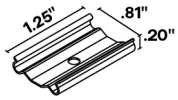


White

Black

14 MOUNTING

SST



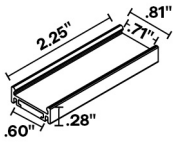
Stainless Steel Clip

2 clips provided for 4' or less; 4 clips provided for greater than 4'

To order separately use SST-01

Each clip comes with a #4 x 5/8" Flat Head screw

M4

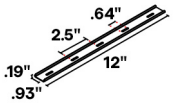


Low Profile Magnet

One M4 provided per foot.

To order separately use MG-04

MMA-04



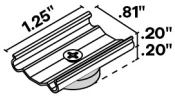
Magnet Mount Accessory for M4

Sold separately, to order use MMA-04

Each bracket comes with 2 #6 x 5/8 Flat Head SS

Required when mounting to a non-magnetic surface

MG

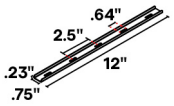


Magnet Clip

One MG provided per foot

To order separately use MG-01

MMA-01



Magnet Mount Accessory of MG-01

Sold separately, to order use MMA-01

Each bracket comes with 2 #6 x 5/8" Flat Head SS

Required when mounting to a non-magnetic surface

15 FINISH



Satin

Black

Bronze

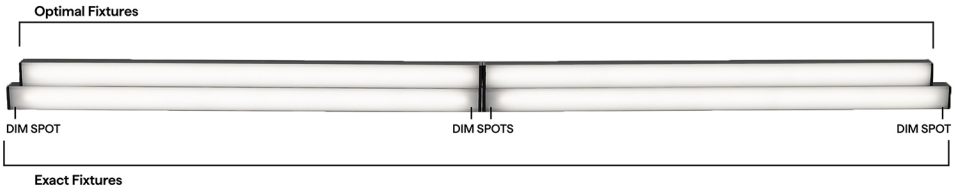
Custom finishes require a longer lead time, consult factory

17 EXACT/OPTIMAL FIXTURE LENGTH

E/O Length Calculator →

E/O Explained →

Exact fixtures are the exact length specified. Optimal fixtures' length is rounded down based on LED cut points to allow the fixture to be illuminated end to end. For runs with multiple fixtures that need to fill a specific length, it's recommended to order all optimal fixtures with an exact fixture at the end of the run.



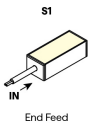
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ESSENTIALS TORQ-ENCAPSULATED (03) STATIC WHITE

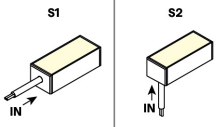
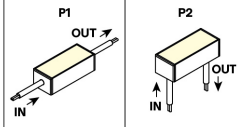
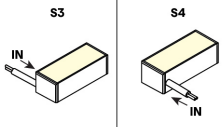
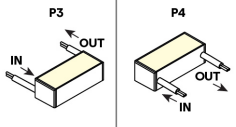
24VDC Linear Fixtures - Surface & Recessed

SW ENC LENGTHS BY INCH

EXACT LENGTH

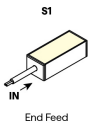
Requested Length	Potential dim spot on either end of a S1 fixture 
12"	0.5"
13"	0.5"
14"	0.5"
15"	0.5"
16"	0.5"
17"	0.5"
18"	0.5"
19"	0.5"
20"	0.5"
21"	0.5"
22"	0.5"
23"	0.5"
24"	0.5"
36"	0.5"
48"	0.5"
60"	0.5"
72"	0.5"
84"	0.5"
96"	0.5"

OPTIMAL LENGTH

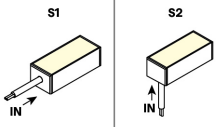
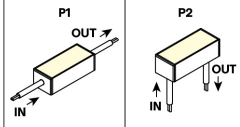
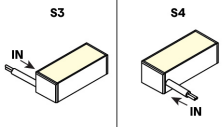
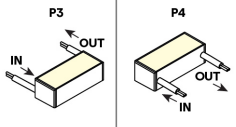
Requested Nominal Length	S1 & S2 	P1 & P2 	S3 & S4 	P3 & P4 
12"	11.41"	11.66"	11.26"	11.36"
13"	12.41"	12.66"	12.26"	12.36"
14"	13.41"	13.66"	13.26"	13.36"
15"	14.41"	14.66"	14.26"	14.36"
16"	15.41"	15.66"	15.26"	15.36"
17"	16.41"	16.66"	16.26"	16.36"
18"	17.41"	17.66"	17.26"	17.36"
19"	18.41"	18.66"	18.26"	18.36"
20"	19.41"	19.66"	19.26"	19.36"
21"	20.41"	20.66"	20.26"	20.36"
22"	21.41"	21.66"	21.26"	21.36"
23"	22.41"	22.66"	22.26"	22.36"
24"	23.41"	23.66"	23.26"	23.36"
36"	35.41"	35.66"	35.26"	35.36"
48"	47.41"	47.66"	47.26"	47.36"
60"	59.41"	59.66"	59.26"	59.36"
72"	71.41"	71.66"	71.26"	71.36"
84"	83.41"	83.66"	83.26"	83.36"
96"	95.41"	95.66"	95.26"	95.36"

SW-HE ENC LENGTHS BY INCH

EXACT LENGTH

Requested Length	Potential dim spot on either end of a S1 fixture 
12"	1"
13"	0.5"
14"	1"
15"	0.5"
16"	1"
17"	0.5"
18"	1"
19"	0.5"
20"	1"
21"	0.5"
22"	1"
23"	0.5"
24"	1"
36"	1"
48"	1"
60"	1"
72"	1"
84"	1"
96"	1"

OPTIMAL LENGTH

Requested Nominal Length	S1 & S2 	P1 & P2 	S3 & S4 	P3 & P4 
12"	10.41"	10.66"	10.26"	10.36"
13"	12.41"	12.66"	12.26"	12.36"
14"	12.41"	12.66"	12.26"	12.36"
15"	14.41"	14.66"	14.26"	14.36"
16"	14.41"	14.66"	14.26"	14.36"
17"	16.41"	16.66"	16.26"	16.36"
18"	16.41"	16.66"	16.26"	16.36"
19"	18.41"	18.66"	18.26"	18.36"
20"	18.41"	18.66"	18.26"	18.36"
21"	20.41"	20.66"	20.26"	20.36"
22"	20.41"	20.66"	20.26"	20.36"
23"	22.41"	22.66"	22.26"	22.36"
24"	22.41"	22.66"	22.26"	22.36"
36"	34.41"	34.66"	34.26"	34.36"
48"	46.41"	46.66"	46.26"	46.36"
60"	58.41"	58.66"	58.26"	58.36"
72"	70.41"	70.66"	70.26"	70.36"
84"	82.41"	82.66"	82.26"	82.36"
96"	94.41"	94.66"	94.26"	94.36"

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ESSENTIALS TORQ-ENCAPSULATED (03) STATIC WHITE

24VDC Linear Fixtures - Surface & Recessed

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	
	SW24/1.5-4.0	SW24/5.0, SW-HE, SW-HE+	SW24/1.5-4.0	SW24/5.0, SW-HE, SW-HE+
Dim to Black	Q6M-DC+CAP QTM-DC+CAP iQ-PH+QD1	Q6M-DC+CAP QTM-DC+CAP iQ-PH+QD1	QOM-DC+CAP QOM-PH	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	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	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%	QTM-eLED(E) QZ-DALI-DT6	QTM-eLED(E) QZ-DALI-DT6	Q-SET+QZ-DALI-DT6 QZ-DALI-DT6	Q-SET+QZ-DALI-DT6 QZ-DALI-DT6
10%	Non-Dim Power Supply with SW App Dongle	Non-Dim Power Supply with SW App Dongle	Q-HEX-mini-DC Q-SET-mLED	

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ESSENTIALS TORQ-ENCAPSULATED (03) STATIC WHITE

24VDC Linear Fixtures - Surface & Recessed

DIMMING PROTOCOL	INDOOR		OUTDOOR	
	SW24/1.5-4.0	SW24/5.0, SW-HE, SW-HE+	SW24/1.5-4.0	SW24/5.0, SW-HE, SW-HE+
Non-Dim	QT-CAB-eLED-ND QTM-eLED-ND QZ-ND	QT-CAB-eLED-ND QTM-eLED-ND QZ-ND	Q-SET-QZ-ND Q-SET-eLED-ND QOM-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	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-HEX-mini-DC Q-SET-QZ-PH/0-10V Q-SET-mLED QOM-DC+CAP QOM-PH QZ-PRO-PH/0-10V	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	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	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	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)	QTM-eLED(E)		
DMX	QZ-DMX	QZ-DMX	Q-SET-QZ-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	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	Q-SET+QZ-DALI-DT6 QOM-eLED+DALI-DT6 QZ-DALI-DT6
SCENE App Dimmed	Non-Dim Power Supply with SW App Dongle	Non-Dim Power Supply with SW App Dongle		

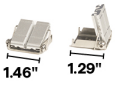
COMPATIBLE MOUNTING ACCESSORIES

HINGE - HMB-M



Adjustable mounting bracket - Medium

HINGE - HMB-L



Adjustable mounting bracket - Large

HINGE - HMB-XL



Adjustable mounting bracket - XLarge

Q-PIVOT



Small mounting accessory

Q-ANGLE



Adjustable mounting accessory

NJ-MEDIUM



J Mounting Bracket

NJ-LARGE



J Mounting Bracket

SD-J-LARGE



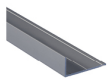
J Mounting Bracket

NU-LARGE



U Mounting Bracket

BL-LARGE



Backwards L Mounting Bracket

NL-LARGE



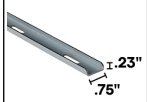
L Mounting Bracket

SD-L-LARGE



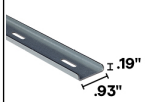
L Mounting Bracket

MMA-01



Magnet Mount Accessory of MG-01

MMA-04



Magnet Mount Accessory of MG-04

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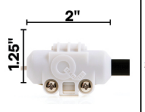
Specification subject to change. Rev-05-05-26

ESSENTIALS TORQ-ENCAPSULATED (03) STATIC WHITE

24VDC Linear Fixtures - Surface & Recessed

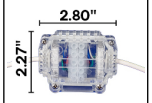
COMPATIBLE WIRING ACCESSORIES

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

CON M - BARREL F



Male con to barrel cable adaptor
DRY/DMP

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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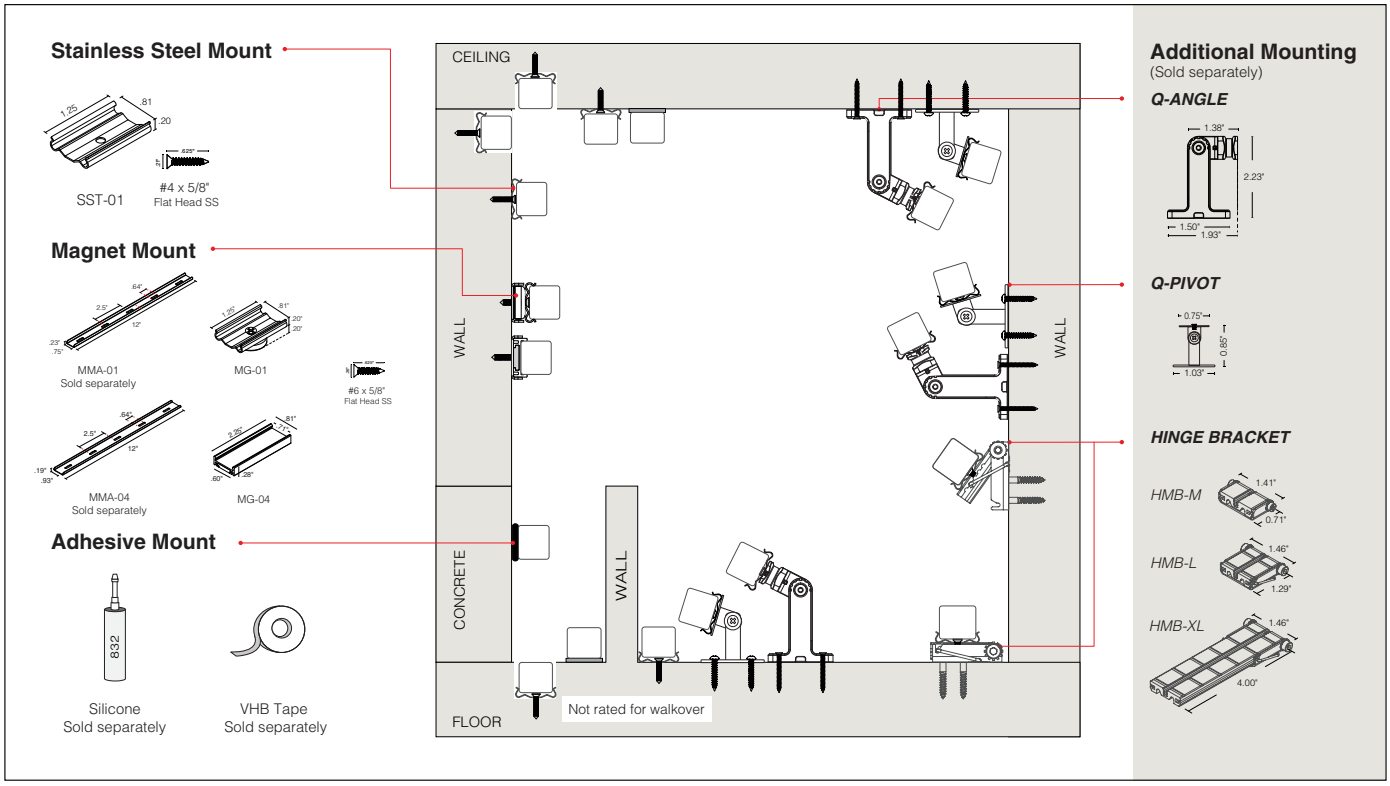
ESSENTIALS TORQ

Linear Fixture Installation Instructions

ATTENTION: Please read all instructions BEFORE installation

- Product to be installed by a licensed electrician - Field modifications void warranty
- Use only with Class 2 power supply unit — Warranty only valid with QTL power supplies
- Surface mount or recessed in millwork
- Suitable for installation in storage area of a clothes closet when assembled as a finished fixture up to 4W/ft at QTL facility
- Not rated for walkover
- Input Voltage: 24VDC
- Diagrams for representation only and not to scale.

METHODS OF INSTALLATION: TORQ can be recessed in millwork with all compatible LED strips except SW-HE24/9.0.



Surface Mounting Method

- VHB Mount (page 5-6)
- Silicone Mount (page 7)
- Screw Mount (page 8)
- Magnet Mount (page 9)
- Low Profile Magnet Mount (page 10)

Recessed Mounting Method

- Magnet Mount : Millwork (page 11)

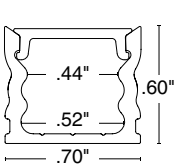
Louver Install Method

- Install Louver (page 12)
- Install Gasket For Vertical Louver (page 13)

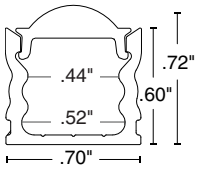
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ESSENTIALS TORQ

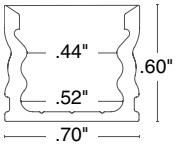
Linear Fixture Installation Instructions



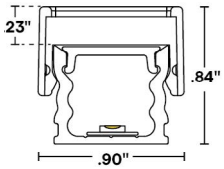
TORQ-FLAT (01)



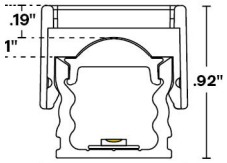
TORQ-OPTICS (02)



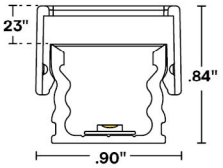
TORQ-ENCAPSULATED (03)



TORQ-FLAT (01)
With Louver



TORQ-OPTICS (02)
With Louver

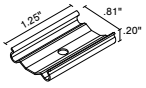


TORQ-ENCAPSULATED (03)
With Louver

COMPONENTS & HARDWARE

Alternate screw lengths can be used in installation as long as the screw diameter size is consistent with the included screw diameter size

STAINLESS STEEL CLIP

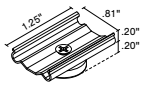


SST-01

Included: Flat Head Screw #4x5/8"

- 2 clips provided for 4' or less; 4 clips provided for greater than 4'

MAGNET CLIP

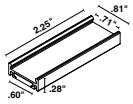


MG-01

Included: Flat Head Screw #6x5/8"

- One magnet clip per foot

LOW PROFILE MAGNET CLIP



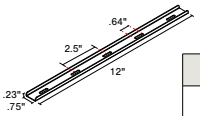
MG-04

Included: Flat Head Screw #6x5/8"

- One magnet clip per foot

ACCESSORIES SOLD SEPARATELY

MAGNET MOUNT ACCESSORY; sold individually

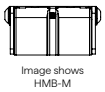


MMA-01

Included: Flat Head Screw #6x5/8"

- MMA-01 comes in 12" pieces; use at least one clip per MMA-01 accessory
- MMA-01 can be cut into smaller pieces, if desired

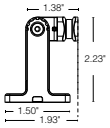
HINGE BRACKET; sold individually



HMB-M
HMB-L
HMB-XL

Included:
- 3/4" long mount screw
- 1/4" #4 clip mount screw

Q-ANGLE; sold in pairs



Q-ANGLE

Included:
- 3/4" long mount screw
- 1/4" #4 clip mount screw

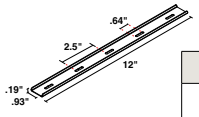
Q-PIVOT; sold in pairs



Q-PIVOT

Included:
- SS #4-40x3/16 Flat head screw
- 2 #4x3/4 Pan head screws

LOW PROFILE MAGNET MOUNT ACCESSORY; sold Individually

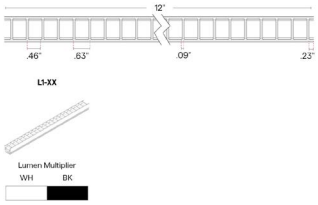


MMA-04

Included: 2 #6x5/8" Flat Head screws

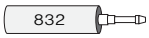
- MMA-04 comes in 12" pieces; use at least one clip per MMA-04 accessory
- MMA-04 can be cut into smaller pieces, if desired

EXTERNAL LOUVER



- L1-WH - White Plastic
- L1-BK - Black plastic

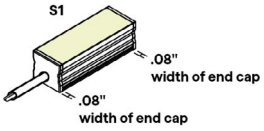
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ADHESIVE SOLD SEPARATELY	
SILICONE	VHB TAPE; sold in 15' increments
	
DOWSIL 832	TAPE-VHB-IP20

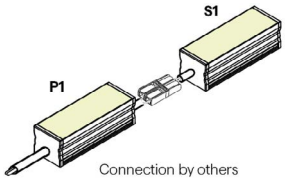
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CONFIGURATION OPTIONS

TORQ-FLAT & TORQ-ENC

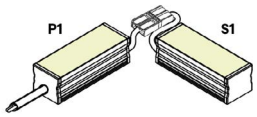


Single End Feed



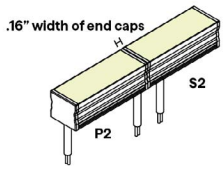
Connection by others

Non-Continuous End Feed

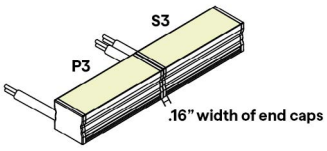


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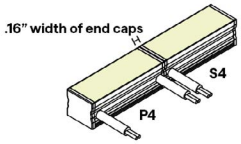
Non-Continuous Corner Feed



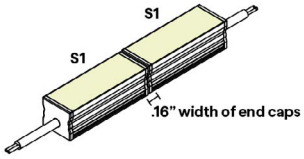
Continuous Bottom Feed



Continuous Side Feed - Left

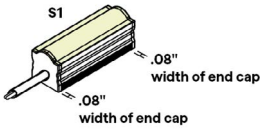


Continuous Side Feed - Right

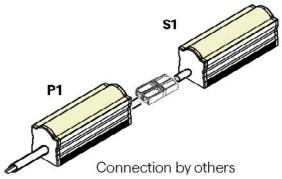


Continuous End to End Feed

TORQ-OPTICS

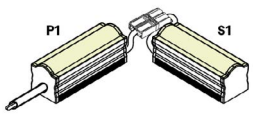


Single End Feed



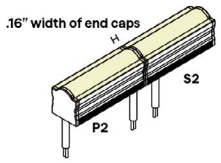
Connection by others

Non-Continuous End Feed

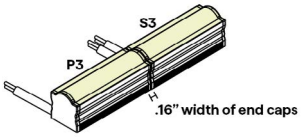


Connection by others

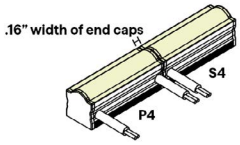
Non-Continuous Corner Feed



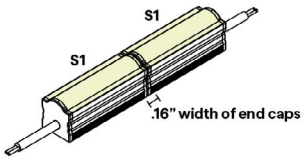
Continuous Bottom Feed



Continuous Side Feed - Left



Continuous Side Feed - Right



Continuous End to End Feed

Review wire method to ensure clean installation prior to mounting extrusion.

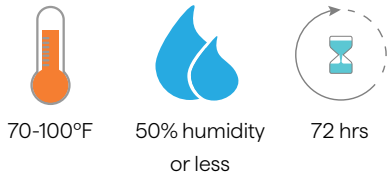
NOTE: Additional wire methods include:
S1, S2, S3, S4: Connector/Wire Input only
P1, P2, P3, P4: Connector/Wire Input and Output

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SURFACE MOUNTING METHOD

SURFACE PREPARATION

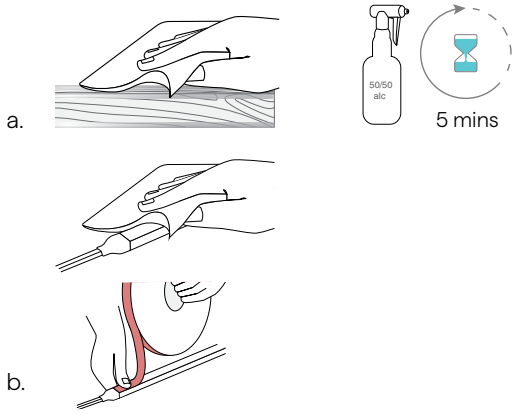
1



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.

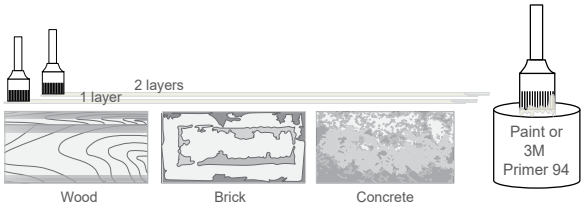
2



a. Using a 50/50 alcohol mix, thoroughly clean the backside of the Fixture and the surface area where Fixture will be installed. Allow 5 minutes to dry.

b. Peel back 0.5" of the VHB tape's protective film on one end and use firm pressure to adhere it to the desired surface, avoiding air bubbles. Continue peeling the film and adhering the tape in small sections until the entire length is installed.

3



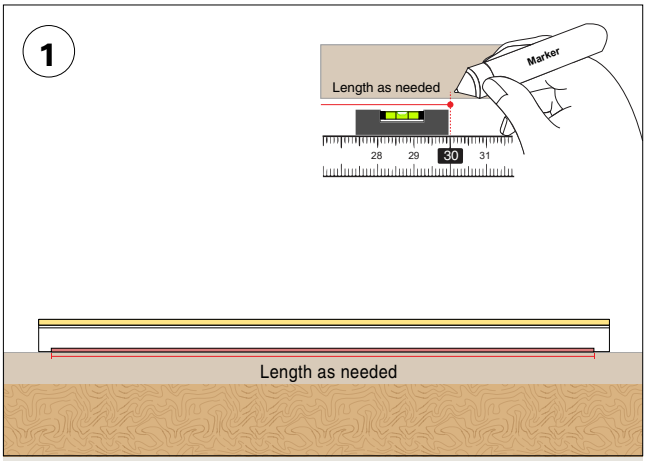
For porous materials (Wood, Brick, Concrete etc.) apply two layers of paint or primer to the surface. This will help create a better bonding surface for these materials. These can be purchased from a local hardware store.

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

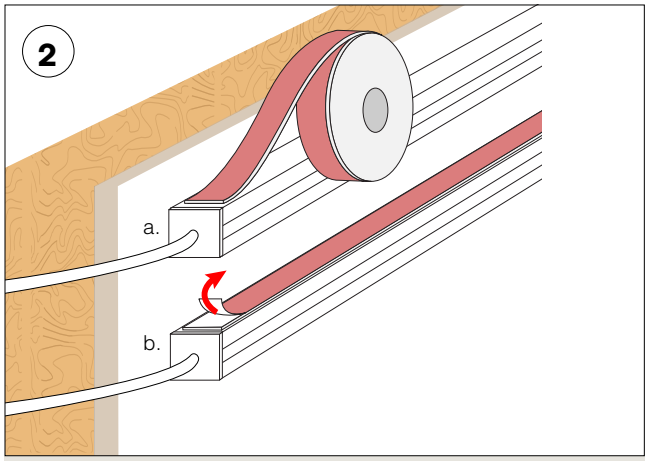
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SURFACE MOUNTING METHOD: **VHB ADHESIVE MOUNT**

BEFORE installation, the surface must be thoroughly cleaned and dried for maximum bond strength.

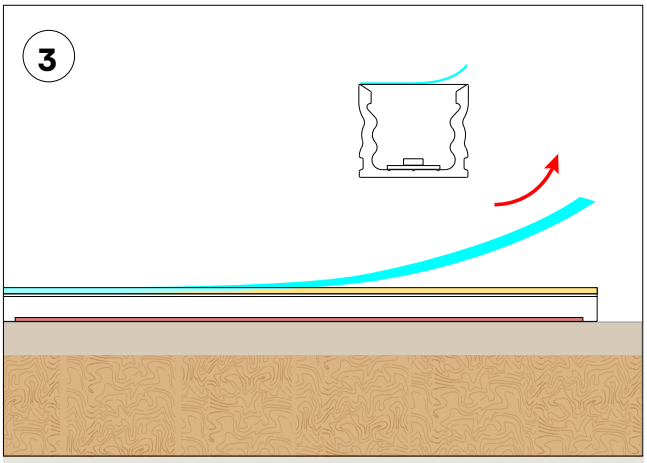


Determine the TORQ fixture(s) location and positioning on desired surface before adhering Fixture to surface. Make any necessary reference markings to indicate fixture placement.



a. To adhere the VHB adhesive, peel the white film back while evenly applying the tape to the mounting side of the fixture. The red side should be visible.

b. Remove the red film and position fixture in place according to your previous reference marking(s).



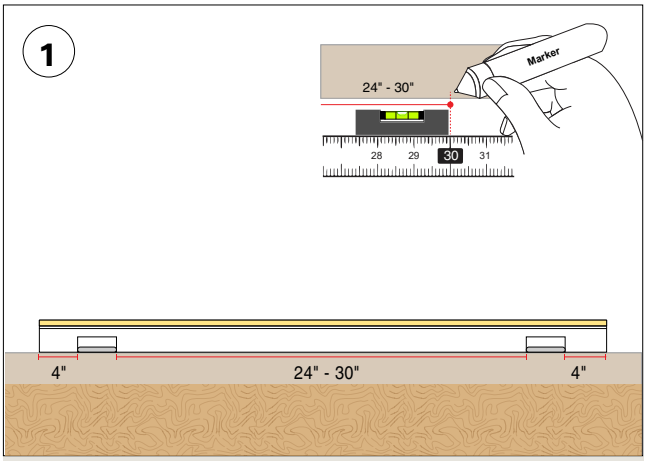
Remove protective film from the surface of the fixture's lens.

NOTES: *EPOXY ALTERNATIVE: For improved bonding strength, apply a small amount of epoxy at each end. Refer to table on* page 5 *for suggested epoxies. These can be purchased at a local hardware store. Please follow all manufacturer instructions for suggested epoxy.*

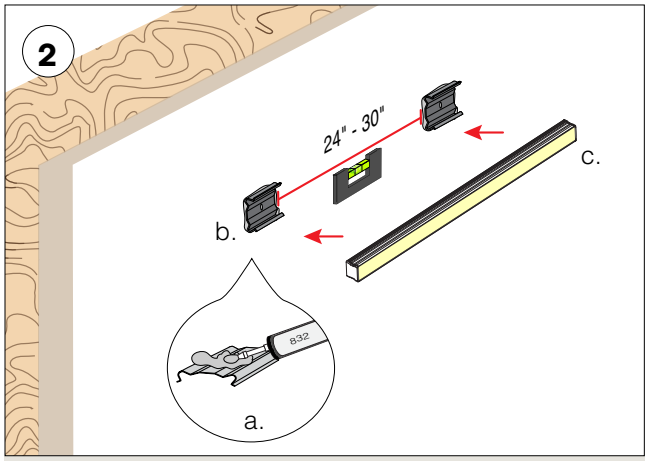
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SURFACE MOUNTING METHOD: **SILICONE**

- 2 clips provided for 4’ or less; 4 clips provided for greater than 4’



Determine the TORQ fixture(s) location and positioning on desired surface; evenly distribute clips. Make any necessary reference markings to indicate where each clip is to be secured in place. Recommended every 24” - 30”.

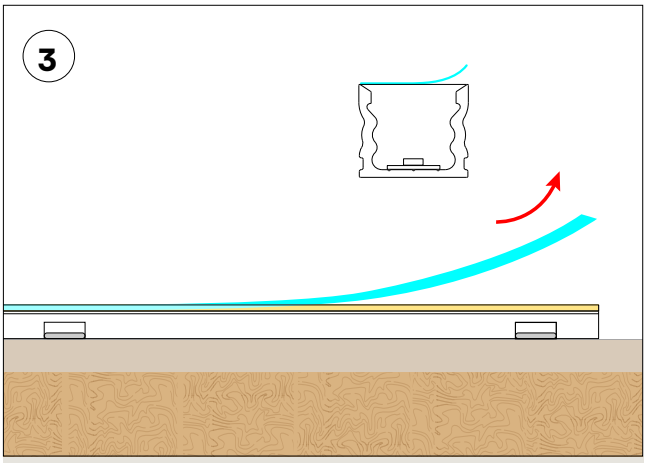


a. Firmly press the silicone-coated clips on the marked reference points.

b. Wait for silicone adhesive to cure completely before snapping fixture into place.

c. Snap fixture onto clips.

NOTE: Cure time is dependent on the type of silicone adhesive used. Refer to silicone product manufacturer for accurate drying time.

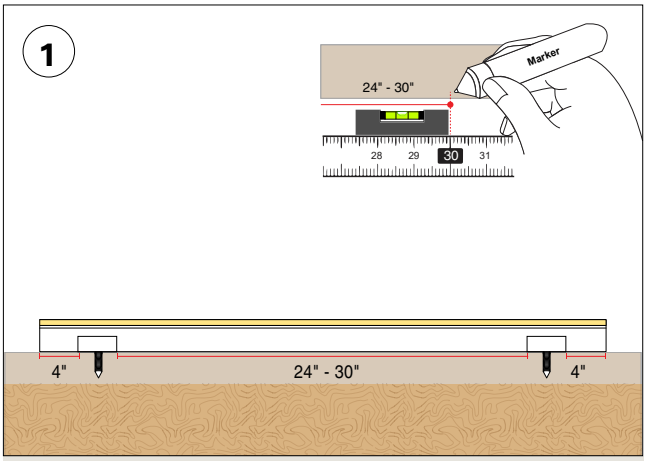


Remove protective film from the surface of the fixture’s lens.

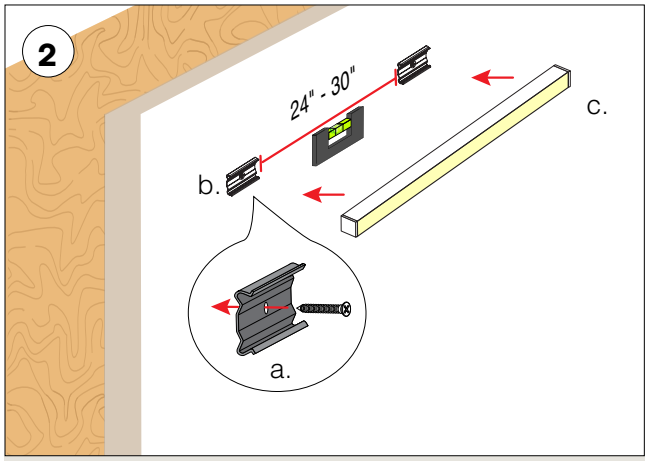
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SURFACE MOUNTING METHOD: **SCREW MOUNT**

- 2 clips provided for 4' or less; 4 clips provided for greater than 4'



Determine the TORQ fixture(s) location and positioning on desired surface; evenly distribute clips. Make any necessary reference markings to indicate where each clip is to be secured in place. Recommended every 24" - 30".

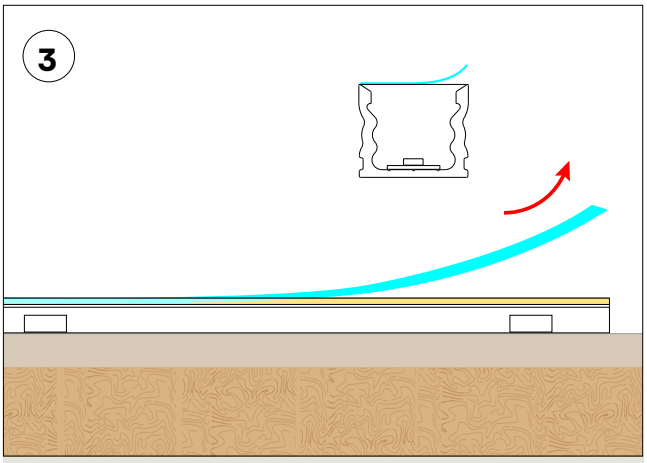


a. Secure clips using the #4 flat head hardware provided.

b. Ensure the screw head is flush with the clip's base.

c. Snap fixture onto clips.

NOTE: Flat head screw type is dependent on surface/application material. Alternative flat head screws may be required. Refer to the surface material manufacturer for suggested screw type.

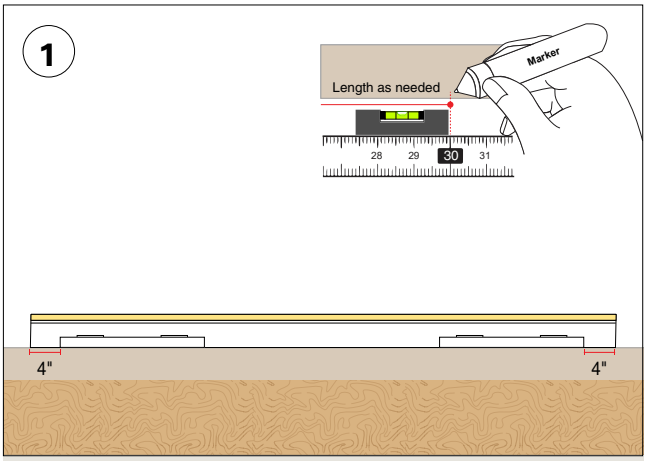


Remove protective film from the surface of the fixture's lens.

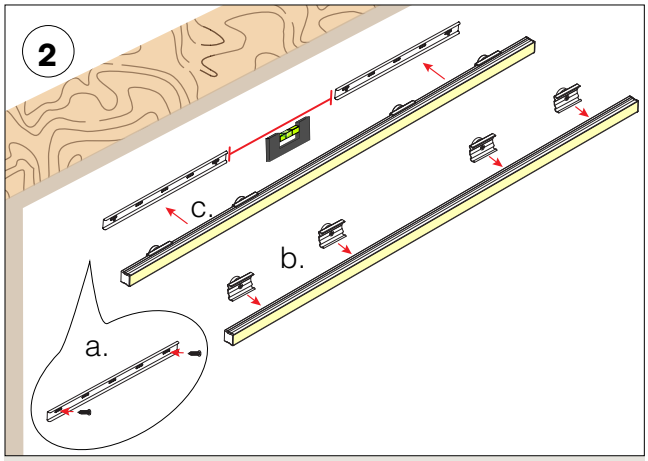
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SURFACE MOUNTING METHOD: **MAGNET MOUNT**

- One magnet clip per foot
- MMA-01 comes in 12" pieces; use at least one clip per MMA-01 accessory
- MMA-01 can be cut into smaller pieces, if desired



Determine the TORQ fixture(s) location and positioning on desired surface. Make any necessary reference markings to indicate where the magnet mount accessory bracket is to be secured in place.

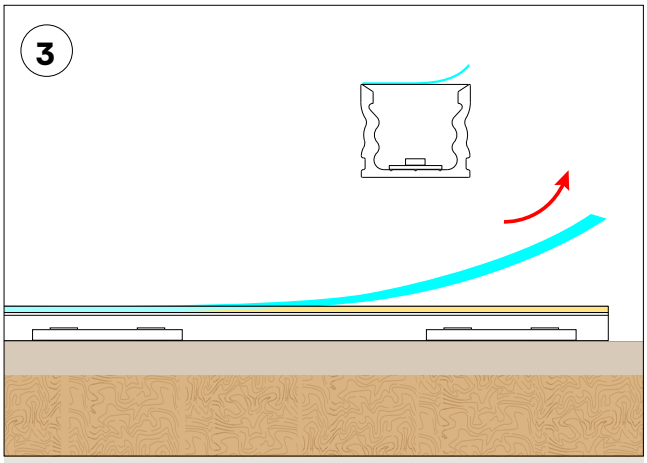


a. Mount the two #6 flat head screws into the 12" magnet mount accessory bracket through the slotted holes at each end. Ensure the screw head is flush with the magnet mount bracket.

b. Snap the magnet clips onto the backside of the fixture. They should be offset to the accessory bracket screws to maximize magnetic connection.

c. Place the assembled fixture into the magnet mount bracket.

NOTE: If surface application requires a longer screw, the screw size must be a #6 Flat Head.

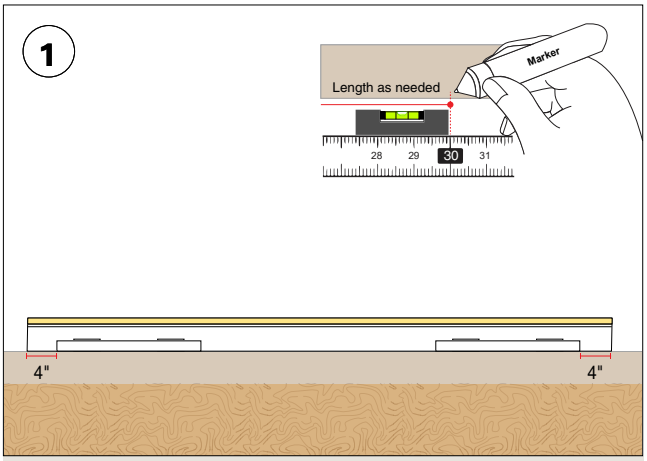


Remove protective film from the surface of the fixture's lens.

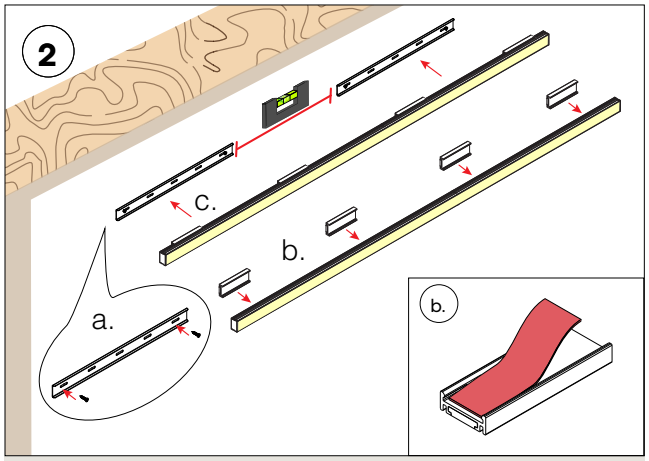
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SURFACE MOUNTING METHOD: **LOW PROFILE MAGNET MOUNT**

- One magnet clip per foot
- MMA-04 comes in 12" pieces; use at least one clip per MMA-04 accessory
- MMA-04 can be cut into smaller pieces, if desired



Determine the TORQ fixture(s) location and positioning on desired surface. Make any necessary reference markings to indicate where the magnet mount accessory bracket is to be secured in place.

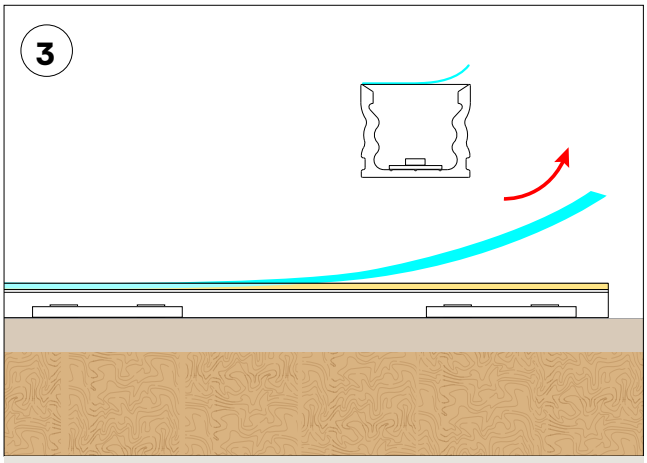


a. Mount the two #6 flat head screws into the magnet mount accessory bracket through the slotted holes at each end. Ensure the screw head is flush with the magnet mount bracket.

b. Snap the magnet clips onto the backside of the fixture. They should be offset to the accessory bracket screws to maximize magnetic connection. If the clip does not fit securely onto the extrusion, apply the provided foam onto the inner face of the magnet clip.

c. Place the assembled fixture into the magnet mount bracket.

NOTE: If surface application requires a longer screw, the screw size must be a #6 Flat Head.

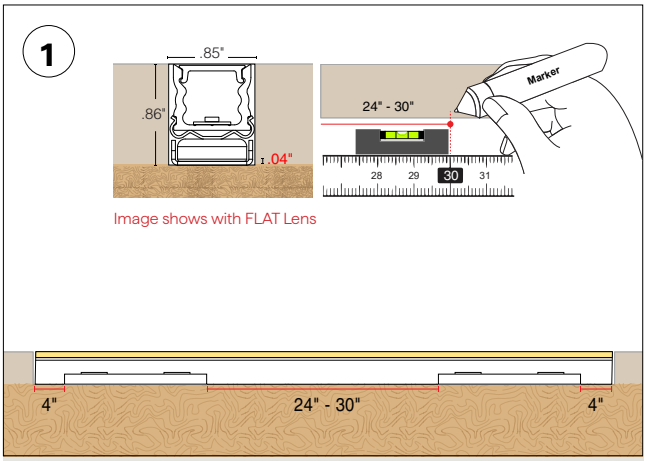


Remove protective film from the surface of the fixture's lens.

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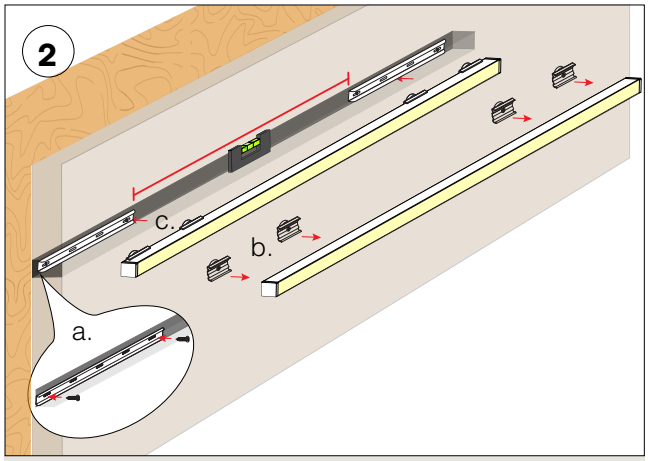
RECESSED MOUNTING METHOD: **MILLWORK**

- One magnet clip per foot
- MMA-01 comes in 12" pieces; use at least one clip per MMA-01 accessory
- MMA-01 can be cut into smaller pieces, if desired
- TORQ can be recessed in millwork with all compatible LED strips except **SW-HE24/9.0**



Determine the TORQ fixture(s) location and positioning on desired surface. Make any necessary reference markings to indicate where the magnet mount accessory bracket is to be secured in place.

NOTE: Depth of the channel in the millwork is dependent on overall height with the magnet clip and Magnet Mount Accessory.

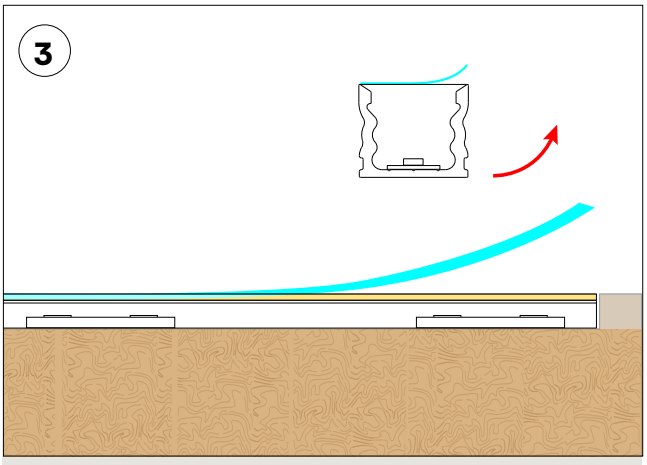


a. Mount the two #6 flat head screws into the 12" magnet mount accessory bracket through the slotted holes at each end. Ensure the screw head is flush with the magnet mount bracket.

b. Snap the magnet clips onto the backside of the fixture. They should be offset to the accessory bracket screws to maximize magnetic connection.

c. Place the assembled fixture into the magnet mount bracket.

NOTE: If surface application requires a longer screw, the screw size must be a #6 Flat Head.

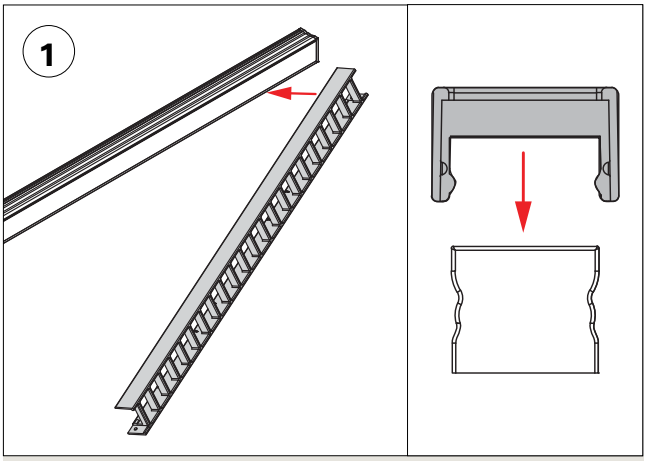


Remove protective film from the surface of the fixture's lens.

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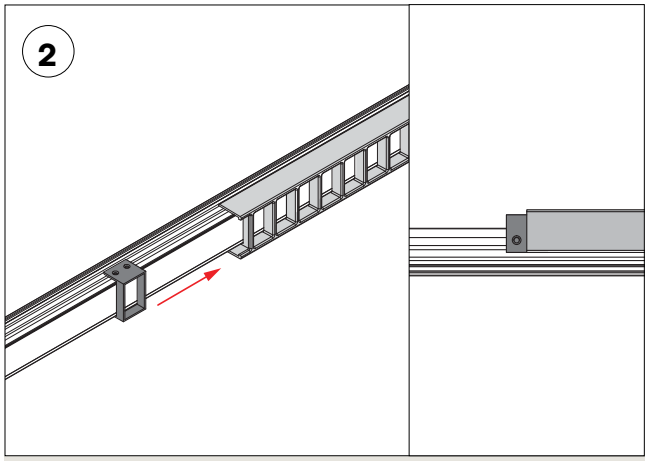
INSTALL METHOD: **LOUVER**

Louvers can be snapped onto the fixture either before or after it is mounted to the surface using the provided mounting clip.

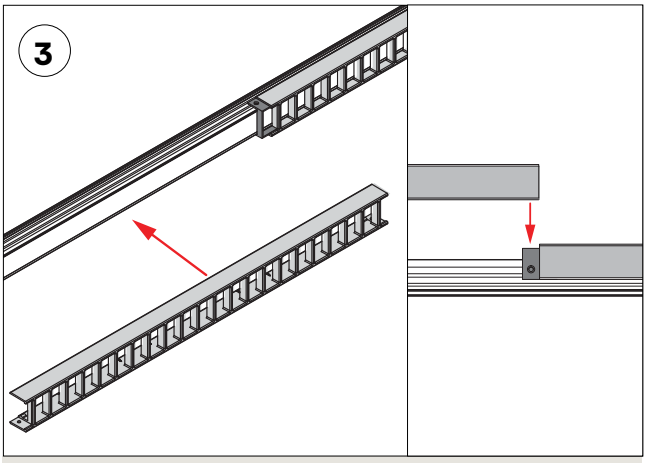


Snap the louver onto the fixture.

NOTE: Tilting the louver and snapping on one end first, then pressing down on the remaining length makes for an easier install.



Snap the louver connector onto the fixture, then slide it into the end of the mounted louver.



Snap the next louver onto the fixture and over the connector, the louver can also be slid into the connector.

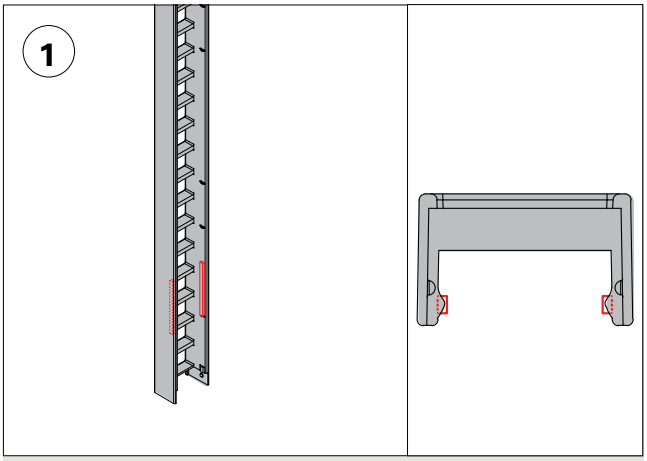
NOTE: These plastic louvers are field-cuttable. We recommend trimming the last segment as needed and positioning the cut end at the fixture's edge for a clean finish.

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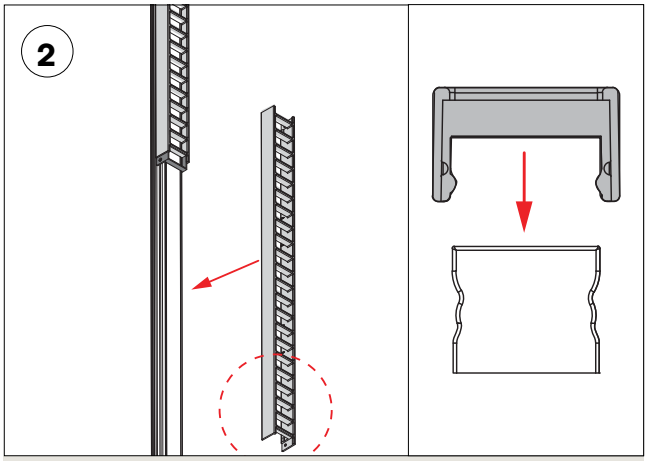
INSTALL METHOD: **LOUVER-GASKET**

Louvers can be snapped onto the fixture either before or after it is mounted to the surface using the provided mounting clip.

- When the fixture is mounted vertically, install a pair of gaskets on the inner side of the lowest louver to act as a stopper.



Remove the adhesive backing on the gasket, then place one on each side of the louver's inner walls, towards the bottom edge.



Snap last louver onto the fixture (should be lowest louver on fixture, when mounted vertically).

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ESSENTIALS TORQ-ENCAPSULATED-SW(03)

Linear Fixtures Color Data

TQ3SW-5.0-24-DRY-STD-CL

2435 K

CRI: 92.9

CRI R9: 65.6

TM30 Rf: 89.4

TM30 Rg: 104.0

CQS: 86.4

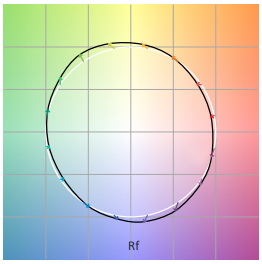
X: 0.479

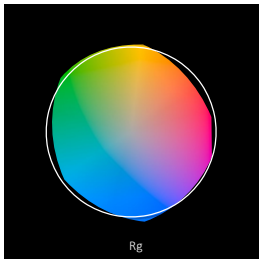
Y: 0.408

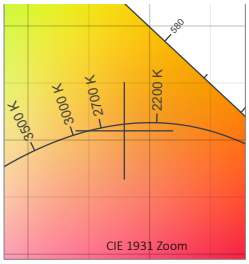
U: 0.276

V: 0.353

Δuv: -0.0020







R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
94.3	96.0	94.8	93.4	93.2	95.1	92.3	84.1	65.6	88.4	93.9	83.4	94.8	95.7	90.8
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
84.4	93.6	84.0	85.8	88.0	83.8	80.2	85.2	94.8	88.7	88.4	88.4	89.2	86.8	85.5
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
91.8	91.2	83.1	88.4	90.5	88.2	87.4	90.6	93.7	92.2	88.9	87.3	90.3	85.0	90.7	86.7

TM30			
Hue Bin	R_f	Chroma	Hue
1	92	-4%	-1%
2	91	-4%	4%
3	83	0%	8%
4	88	4%	6%
5	91	7%	5%
6	88	9%	0%
7	87	4%	-7%
8	91	1%	-6%
9	94	-2%	-3%
10	92	-4%	3%
11	89	0%	8%
12	87	3%	5%
13	90	7%	-5%
14	85	6%	-8%
15	91	2%	-6%
16	87	-1%	-10%

TQ3SW-5.0-27-DRY-STD-CL

2821 K

CRI: 96.8

CRI R9: 94.6

TM30 Rf: 93.1

TM30 Rg: 104.3

CQS: 92.1

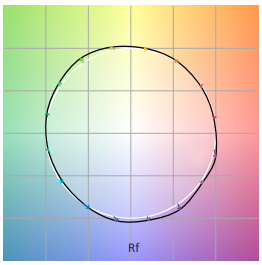
X: 0.447

Y: 0.401

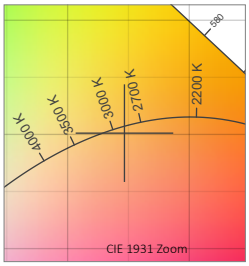
U: 0.258

V: 0.348

Δuv: -0.0024







R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
99.5	97.5	92.9	95.8	98.3	95.8	96.7	97.6	94.6	92.3	94.7	84.0	99.0	94.9	99.3
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
94.5	97.2	86.9	90.1	93.4	89.3	86.9	92.7	95.5	92.5	93.4	94.6	96.0	96.3	95.6
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
96.6	97.3	91.3	92.5	93.1	91.0	93.1	93.5	96.3	93.7	89.2	89.5	94.2	91.9	94.0	89.5

TM30			
Hue Bin	R_f	Chroma	Hue
1	97	-1%	-1%
2	97	-1%	1%
3	91	1%	4%
4	92	1%	4%
5	93	4%	4%
6	91	6%	0%
7	93	3%	-3%
8	94	1%	-4%
9	96	-1%	-1%
10	94	-2%	3%
11	89	0%	8%
12	90	4%	5%
13	94	4%	1%
14	92	7%	-2%
15	94	2%	-2%
16	89	3%	-8%

TQ3SW-5.0-30-DRY-STD-CL

3028 K

CRI: 98.0

CRI R9: 95.8

TM30 Rf: 94.8

TM30 Rg: 99.8

CQS: 95.1

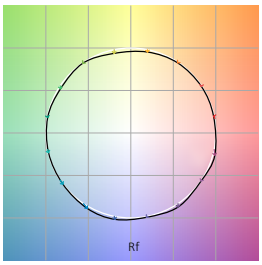
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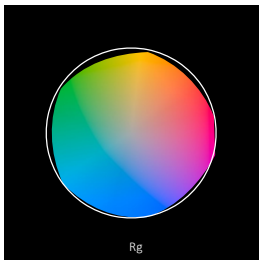
Y: 0.409

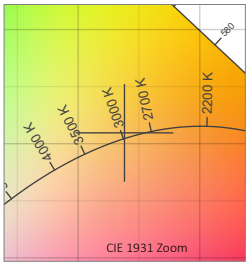
U: 0.249

V: 0.349

Δuv: 0.0020







R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
99.2	97.9	94.4	99.6	97.9	96.8	99.2	99.0	95.8	93.5	98.6	82.1	98.8	96.0	98.0
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
93.9	97.3	92.2	92.4	94.9	96.4	96.5	98.0	95.8	94.9	95.0	95.6	96.4	97.7	96.5
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
96.7	98.1	97.0	94.9	93.8	97.3	94.4	97.8	94.5	90.7	90.9	93.7	97.0	94.7	93.8	91.9

TM30			
Hue Bin	R_f	Chroma	Hue
1	97	-1%	0%
2	98	-1%	-1%
3	97	-1%	0%
4	95	-3%	-1%
5	94	-4%	1%
6	97	0%	1%
7	94	-2%	3%
8	98	0%	1%
9	95	-1%	4%
10	91	0%	6%
11	91	2%	7%
12	94	3%	2%
13	97	1%	-1%
14	95	3%	-2%
15	94	0%	-1%
16	92	2%	-6%

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-03-05-24

ESSENTIALS TORQ-ENCAPSULATED-SW(03)

Linear Fixtures Color Data

TQ3SW-5.0-35-DRY-STD-CL

3591 K

CRI: 97.0

CRI R9: 98.2

TM30 Rf: 91.0

TM30 Rg: 97.6

CQS: 94.9

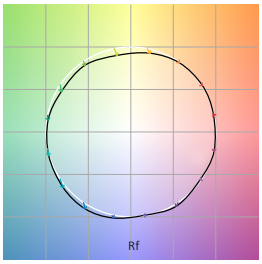
X: 0.401

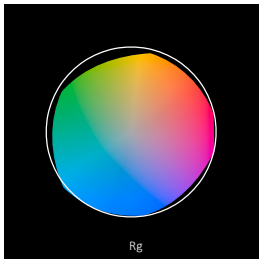
Y: 0.391

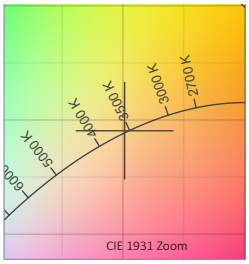
U: 0.233

V: 0.340

Δuv: 0.0008







R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
97.8	98.4	98.7	96.2	96.7	97.0	95.5	95.9	98.2	98.7	99.2	77.2	97.7	98.2	96.1
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
89.7	95.4	94.8	92.1	92.2	93.2	98.5	99.3	96.8	96.2	98.6	98.0	98.4	97.7	94.6
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
93.5	96.1	95.3	90.6	88.7	93.1	88.6	91.5	88.2	85.3	89.0	92.8	93.7	92.4	90.1	90.0

TM30			
Hue Bin	R_f	Chroma	Hue
1	94	-1%	2%
2	96	0%	-1%
3	95	-1%	-2%
4	91	-5%	-4%
5	89	-9%	-2%
6	93	-5%	2%
7	89	-6%	6%
8	92	-2%	5%
9	88	0%	8%
10	85	3%	10%
11	89	5%	6%
12	93	3%	-1%
13	94	-1%	-4%
14	92	2%	-4%
15	90	-1%	-2%
16	90	0%	-3%

TQ3SW-5.0-40-DRY-STD-CL

4121 K

CRI: 97.5

CRI R9: 98.0

TM30 Rf: 92.2

TM30 Rg: 99.8

CQS: 94.6

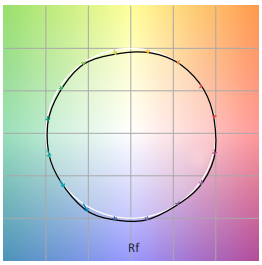
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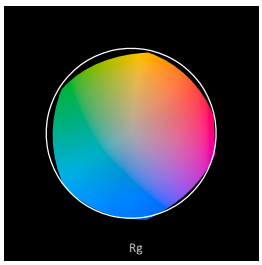
Y: 0.369

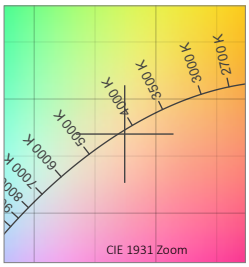
U: 0.224

V: 0.332

Δuv: -0.0017







R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
98.1	99.4	96.6	98.1	97.0	95.7	97.7	97.5	98.0	97.9	98.1	73.4	98.7	97.4	96.0
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
93.1	98.7	89.3	88.0	92.1	95.3	97.3	98.3	97.7	97.7	97.5	98.7	99.4	97.9	96.3
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
94.5	96.6	96.0	93.0	91.5	96.2	93.9	92.6	89.1	87.3	86.5	93.1	94.0	94.9	89.9	90.1

TM30			
Hue Bin	R_f	Chroma	Hue
1	94	-1%	1%
2	97	0%	0%
3	96	0%	0%
4	93	-3%	-1%
5	92	-5%	0%
6	96	-2%	1%
7	94	-3%	2%
8	93	-2%	4%
9	89	-1%	8%
10	87	0%	8%
11	87	4%	8%
12	93	4%	2%
13	94	3%	-2%
14	95	0%	0%
15	90	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-03-05-24

ESSENTIALS TORQ-ENCAPSULATED-SW(03)

Linear Fixtures Color Data

TQ3SW-5.0-24-DRY-STD-TL

2406 K

CRI: 93.1

CRI R9: 66.1

TM30 Rf: 89.7

TM30 Rg: 103.9

CQS: 86.3

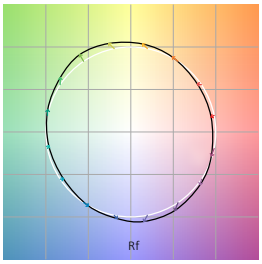
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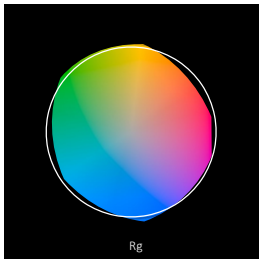
Y: 0.409

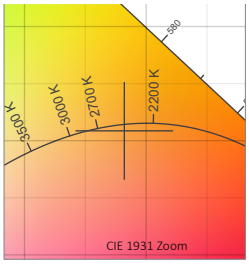
U: 0.278

V: 0.353

Δuv: -0.0019







R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
94.4	96.2	95.0	93.6	93.4	95.5	92.4	84.3	66.1	88.9	94.3	85.1	95.0	95.8	90.9
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
83.9	93.1	84.6	86.2	87.9	83.6	80.2	85.1	94.5	88.7	88.4	88.3	89.0	86.7	85.2
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
91.7	91.4	83.3	88.4	90.3	88.1	87.0	90.2	93.3	92.9	90.0	87.9	90.3	85.7	90.8	87.9

TM30			
Hue Bin	R_f	Chroma	Hue
1	92	-4%	-1%
2	91	-4%	3%
3	83	0%	8%
4	88	4%	7%
5	90	7%	5%
6	88	9%	-1%
7	87	5%	-7%
8	90	1%	-7%
9	93	-2%	-3%
10	93	-4%	2%
11	90	0%	7%
12	88	3%	4%
13	90	6%	-5%
14	86	6%	-8%
15	91	2%	-6%
16	88	-2%	-9%

TQ3SW-5.0-27-DRY-STD-TL

2773 K

CRI: 96.8

CRI R9: 93.3

TM30 Rf: 93.5

TM30 Rg: 103.7

CQS: 92.4

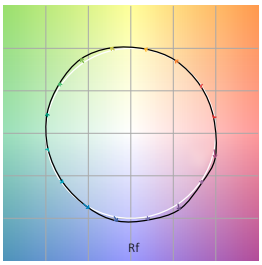
X: 0.452

Y: 0.405

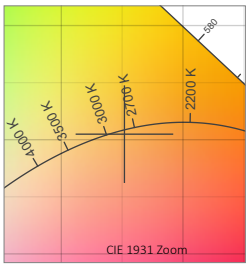
U: 0.260

V: 0.349

Δuv: -0.0014







R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
99.3	97.4	92.8	96.4	98.0	95.7	97.1	97.6	93.3	91.9	95.3	83.3	98.8	94.9	98.8
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
94.8	97.2	87.5	90.2	93.5	90.1	87.8	93.1	95.4	92.9	93.9	95.2	96.4	96.1	95.5
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
96.6	97.4	92.2	93.2	93.6	92.1	94.5	94.5	96.6	93.7	89.3	89.9	94.6	92.0	94.6	89.4

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

TQ3SW-5.0-30-DRY-STD-TL

3090 K

CRI: 96.5

CRI R9: 94.1

TM30 Rf: 93.1

TM30 Rg: 103.0

CQS: 92.5

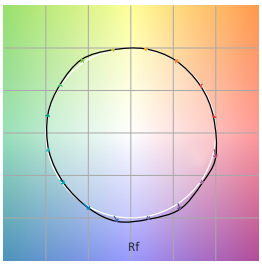
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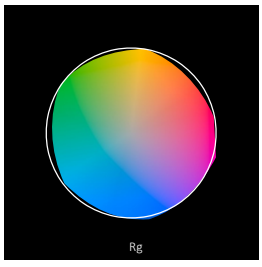
Y: 0.396

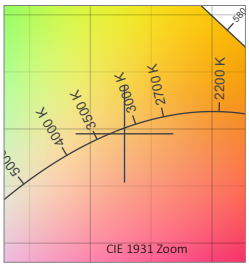
U: 0.248

V: 0.344

Δuv: -0.0021







R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
98.5	97.1	93.0	96.6	97.2	94.6	97.4	97.9	94.1	91.2	95.6	79.1	98.2	95.1	98.9
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
96.9	97.7	85.9	87.8	93.0	92.3	89.3	93.9	95.4	92.8	93.2	94.7	96.2	96.7	96.7
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
96.6	96.8	92.0	93.8	92.6	93.7	94.5	96.4	95.9	89.8	86.7	89.9	94.9	91.9	93.3	89.1

TM30			
Hue Bin	R_f	Chroma	Hue
1	97	-1%	-1%
2	97	-1%	1%
3	92	0%	4%
4	94	0%	3%
5	93	0%	3%
6	94	4%	0%
7	95	1%	-1%
8	96	0%	-2%
9	96	-1%	2%
10	90	-2%	6%
11	87	1%	9%
12	90	5%	5%
13	95	4%	1%
14	92	7%	-2%
15	93	3%	-3%
16	89	4%	-9%

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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ESSENTIALS TORQ-ENCAPSULATED-SW(03)

Linear Fixtures Color Data

TQ3SW-5.0-35-DRY-STD-TL

3562 K

CRI: 97.5

CRI R9: 97.5

TM30 Rf: 92.9

TM30 Rg: 99.7

CQS: 96.0

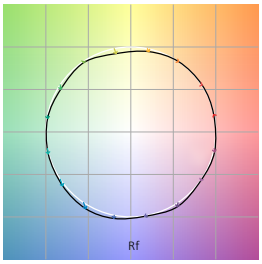
X: 0.400

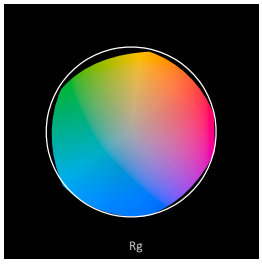
Y: 0.384

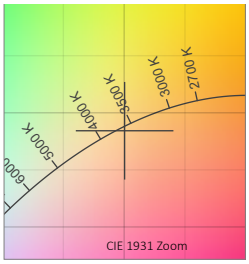
U: 0.235

V: 0.339

Δuv: -0.0018







R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
97.1	98.1	98.2	98.4	97.2	96.1	97.2	97.4	97.5	98.3	98.1	79.3	97.1	98.0	96.1
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
92.8	98.0	92.9	92.0	94.2	96.7	98.6	99.0	98.8	99.4	99.4	99.8	99.8	97.4	95.9
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
94.7	96.8	96.5	93.3	91.8	96.9	92.5	94.4	91.1	88.2	89.3	92.6	95.0	92.9	91.3	91.1

TM30			
Hue Bin	R_f	Chroma	Hue
1	95	0%	1%
2	97	0%	-1%
3	96	0%	-1%
4	93	-3%	-2%
5	92	-6%	-1%
6	97	-1%	1%
7	93	-4%	4%
8	94	-1%	3%
9	91	0%	6%
10	88	2%	8%
11	89	5%	6%
12	93	4%	0%
13	95	1%	-3%
14	93	4%	-4%
15	91	0%	-2%
16	91	1%	-4%

TQ3SW-5.0-40-DRY-STD-TL

4031 K

CRI: 97.7

CRI R9: 97.8

TM30 Rf: 92.5

TM30 Rg: 99.6

CQS: 94.9

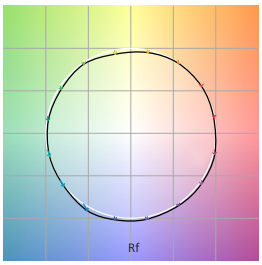
X: 0.379

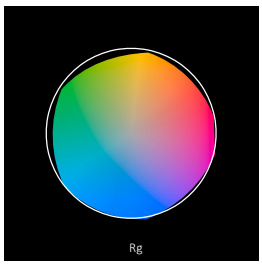
Y: 0.375

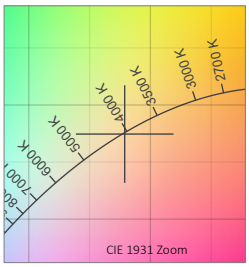
U: 0.225

V: 0.334

Δuv: -0.0006







R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
98.7	99.5	96.2	98.0	97.1	95.9	98.2	97.8	97.8	96.3	97.9	74.2	99.5	97.2	96.8
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
93.5	98.7	89.8	88.8	92.7	95.5	97.3	98.4	97.9	97.7	97.7	99.0	99.7	98.4	96.7
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
94.7	97.0	96.2	93.2	91.8	96.3	94.1	92.9	89.6	87.7	87.0	92.5	94.1	94.7	90.1	90.2

TM30			
Hue Bin	R_f	Chroma	Hue
1	95	-1%	1%
2	97	0%	0%
3	96	0%	0%
4	93	-3%	-1%
5	92	-5%	0%
6	96	-2%	1%
7	94	-3%	2%
8	93	-2%	4%
9	90	-1%	8%
10	88	0%	8%
11	87	4%	8%
12	93	3%	2%
13	94	3%	-2%
14	95	2%	0%
15	90	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-03-05-24

ESSENTIALS TORQ-ENCAPSULATED-SW-HE(03)

Linear Fixtures Color Data

TQ3SW-6.0HE-24-DRY-STD-CL

2397 K

CRI: 92.8

CRI R9: 64.3

TM30 Rf: 90.9

TM30 Rg: 102.2

CQS: 87.4

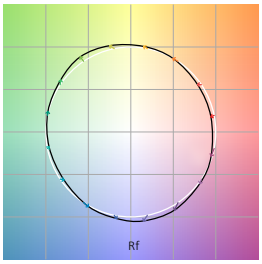
X: 0.486

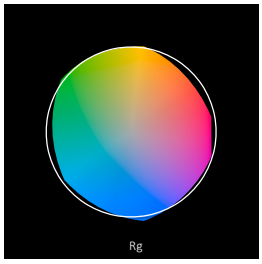
Y: 0.414

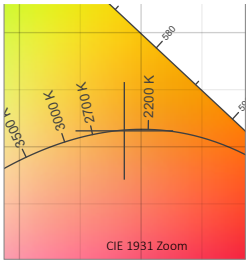
U: 0.278

V: 0.355

Δuv: -0.0003







R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
93.8	95.6	94.7	94.0	92.7	95.0	93.0	83.9	64.3	87.7	94.7	82.3	94.3	95.6	89.9
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
85.3	92.8	85.3	86.5	88.3	85.4	83.3	87.3	94.2	89.7	90.1	90.3	90.7	85.9	85.2
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
91.7	92.2	86.1	91.2	93.0	91.1	90.7	93.3	95.0	92.1	89.5	88.7	90.8	85.9	92.2	87.3

TM30			
Hue Bin	R_f	Chroma	Hue
1	92	-4%	-1%
2	92	-4%	3%
3	86	0%	7%
4	91	2%	5%
5	93	4%	5%
6	91	7%	0%
7	91	3%	-5%
8	93	0%	-4%
9	95	-2%	-1%
10	92	-3%	3%
11	90	1%	7%
12	89	3%	4%
13	91	6%	-6%
14	86	5%	-8%
15	92	1%	-5%
16	87	-2%	-9%

TQ3SW-6.0HE-27-DRY-STD-CL

2698 K

CRI: 92.8

CRI R9: 67.6

TM30 Rf: 90.2

TM30 Rg: 102.2

CQS: 88.7

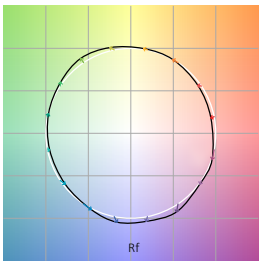
X: 0.457

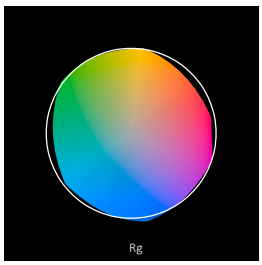
Y: 0.405

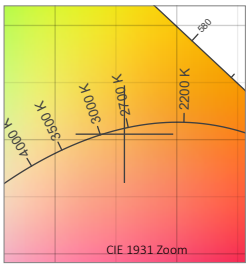
U: 0.263

V: 0.350

Δuv: -0.0019







R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
94.0	95.6	94.3	93.1	92.7	93.7	93.3	85.6	67.6	87.4	92.8	77.7	94.5	95.6	91.4
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
89.2	96.1	83.9	84.7	89.3	88.2	84.4	88.7	96.0	90.4	89.9	90.4	91.5	88.8	88.5
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
92.0	92.2	86.4	90.8	92.2	91.5	91.7	94.2	94.7	89.0	85.0	87.3	91.9	88.1	92.3	85.6

TM30			
Hue Bin	R_f	Chroma	Hue
1	92	-4%	-1%
2	92	-3%	3%
3	86	0%	7%
4	91	1%	5%
5	92	4%	4%
6	91	6%	0%
7	92	2%	-4%
8	94	-1%	-4%
9	95	-3%	0%
10	89	-3%	7%
11	85	0%	11%
12	87	6%	4%
13	92	5%	-2%
14	88	7%	-7%
15	92	1%	-5%
16	86	0%	-11%

TQ3SW-6.0HE-35-DRY-STD-CL

3603 K

CRI: 97.4

CRI R9: 95.1

TM30 Rf: 91.6

TM30 Rg: 98.3

CQS: 95.2

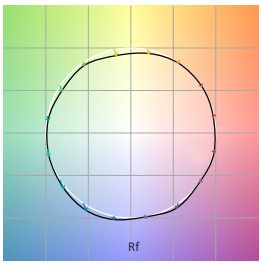
X: 0.400

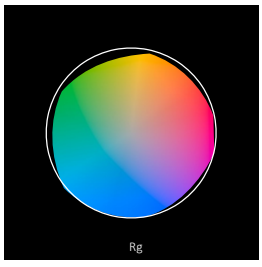
Y: 0.389

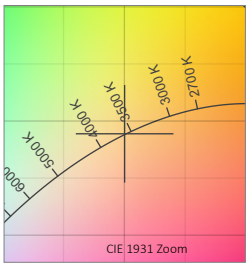
U: 0.233

V: 0.340

Δuv: 0.0003







R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
98.5	99.3	98.2	97.0	97.0	96.9	96.2	96.1	95.1	99.0	99.5	76.0	98.8	98.1	96.6
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
90.9	96.9	92.9	90.9	92.5	94.6	99.2	99.0	98.4	98.2	99.7	99.4	99.6	97.8	95.3
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
93.7	96.6	96.4	92.0	90.1	94.7	90.3	92.7	89.2	85.8	88.1	92.2	94.2	91.9	90.0	89.8

TM30			
Hue Bin	R_f	Chroma	Hue
1	94	-1%	1%
2	97	0%	-1%
3	96	-1%	-1%
4	92	-4%	-3%
5	90	-7%	-1%
6	95	-4%	1%
7	90	-5%	5%
8	93	-2%	4%
9	89	0%	8%
10	86	2%	10%
11	88	5%	7%
12	92	4%	0%
13	94	0%	-4%
14	92	3%	-5%
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-03-05-24

ESSENTIALS TORQ-ENCAPSULATED-SW-HE(03)

Linear Fixtures Color Data

TQ3SW-6.0HE-40-DRY-STD-CL

4144 K

CRI: 97.2

CRI R9: 96.7

TM30 Rf: 91.6

TM30 Rg: 98.8

CQS: 94.5

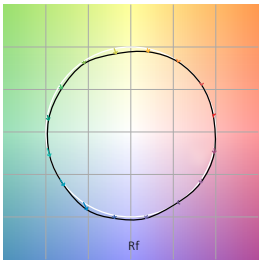
X: 0.374

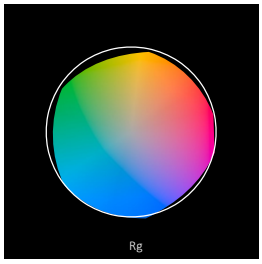
Y: 0.373

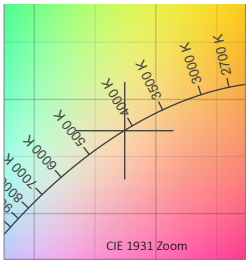
U: 0.223

V: 0.333

Δuv: -0.0002







R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
98.4	99.9	97.3	96.7	96.4	95.9	96.7	96.5	96.7	97.6	98.1	71.8	99.1	97.8	95.9
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
91.4	97.8	90.2	88.3	91.5	94.1	98.1	98.4	98.5	98.7	98.5	99.5	99.8	98.0	95.7
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
93.8	96.5	96.0	92.3	90.7	95.6	92.6	91.3	87.8	86.4	86.5	93.2	93.0	94.5	89.1	89.4

TM30			
Hue Bin	R_f	Chroma	Hue
1	94	-1%	1%
2	97	0%	0%
3	96	-1%	0%
4	92	-4%	-2%
5	91	-6%	-1%
6	96	-3%	1%
7	93	-4%	3%
8	91	-2%	5%
9	88	-1%	9%
10	86	0%	9%
11	87	5%	8%
12	93	4%	1%
13	93	3%	-3%
14	95	0%	-1%
15	89	2%	-4%
16	89	1%	-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-03-05-24

ESSENTIALS TORQ-ENCAPSULATED-SW-HE(03)

Linear Fixtures Color Data

TQ3SW-6.0HE-24-DRY-STD-TL

2389 K

CRI: 92.8

CRI R9: 64.1

TM30 Rf: 90.8

TM30 Rg: 102.2

CQS: 87.2

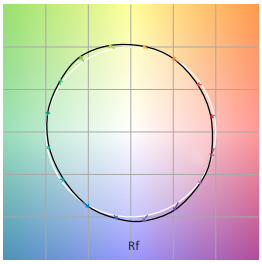
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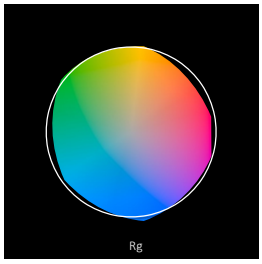
Y: 0.414

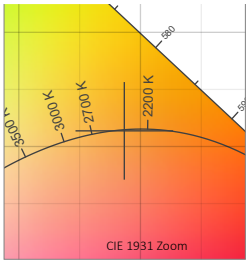
U: 0.278

V: 0.355

Δuv: -0.0004







R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
93.8	95.6	94.7	93.8	92.6	94.9	92.9	83.7	64.1	87.6	94.4	82.3	94.3	95.6	89.8
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
85.1	92.7	85.1	86.1	88.1	85.3	82.9	86.9	94.1	89.5	89.8	90.0	90.4	85.8	85.1
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
91.7	92.0	85.9	91.1	92.8	91.0	90.6	93.1	94.9	91.9	89.4	88.6	90.7	85.9	92.1	87.3

TM30			
Hue Bin	R_f	Chroma	Hue
1	92	-4%	-1%
2	92	-4%	3%
3	86	0%	7%
4	91	2%	5%
5	93	5%	5%
6	91	7%	0%
7	91	3%	-5%
8	93	0%	-5%
9	95	-2%	-1%
10	92	-3%	3%
11	89	1%	8%
12	89	3%	4%
13	91	6%	-6%
14	86	5%	-8%
15	92	1%	-5%
16	87	-2%	-9%

TQ3SW-6.0HE-27-DRY-STD-TL

2671 K

CRI: 92.7

CRI R9: 66.8

TM30 Rf: 90.5

TM30 Rg: 101.8

CQS: 88.8

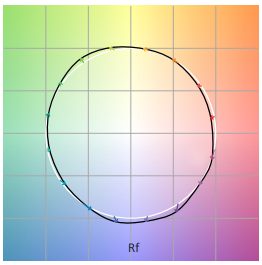
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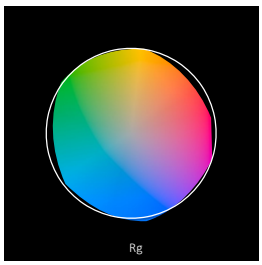
Y: 0.407

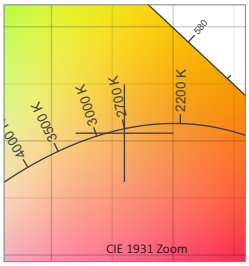
U: 0.264

V: 0.351

Δuv: -0.0014







R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
93.8	95.6	94.4	93.1	92.5	93.8	93.4	85.3	66.8	87.2	92.9	78.0	94.3	95.6	91.0
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
89.0	95.8	84.4	85.0	89.3	88.4	84.9	88.9	95.9	90.6	90.3	90.7	91.7	88.5	88.3
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
92.0	92.2	86.9	91.0	92.6	92.0	92.1	94.5	94.7	89.2	85.6	87.8	92.0	88.4	92.5	86.1

TM30			
Hue Bin	R_f	Chroma	Hue
1	92	-4%	-1%
2	92	-3%	3%
3	87	-1%	7%
4	91	0%	4%
5	93	4%	4%
6	92	6%	0%
7	92	2%	-4%
8	95	-1%	-4%
9	95	-3%	0%
10	89	-3%	7%
11	86	0%	11%
12	88	6%	4%
13	92	5%	-3%
14	88	6%	-7%
15	92	1%	-5%
16	86	-1%	-11%

TQ3SW-6.0HE-30-DRY-WO-TL

3123 K

CRI: 96.5

CRI R9: 92.1

TM30 Rf: 92.9

TM30 Rg: 102.1

CQS: 92.6

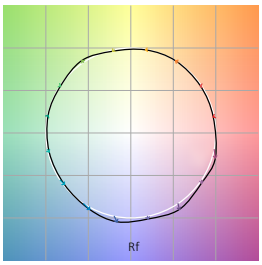
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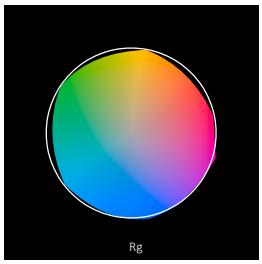
Y: 0.397

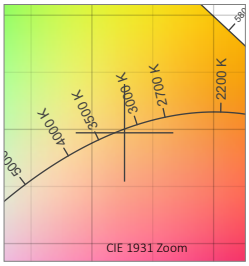
U: 0.247

V: 0.345

Δuv: -0.0014







R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
98.2	97.2	93.3	97.0	96.6	94.5	98.0	97.3	92.1	91.1	95.9	76.8	98.0	95.3	98.0
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
96.2	97.9	86.1	87.2	92.5	93.3	90.3	94.2	95.6	93.4	93.8	95.2	96.5	96.3	96.3
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
96.1	96.6	92.7	94.3	92.2	95.1	93.6	97.6	94.7	88.0	86.0	89.9	95.4	91.8	92.9	88.4

TM30			
Hue Bin	R_f	Chroma	Hue
1	96	-1%	0%
2	97	-1%	1%
3	93	0%	3%
4	94	-1%	2%
5	92	-2%	2%
6	95	3%	0%
7	94	-1%	0%
8	98	-1%	-1%
9	95	-1%	3%
10	88	-1%	7%
11	86	2%	10%
12	90	6%	4%
13	95	3%	0%
14	92	7%	-2%
15	93	2%	-3%
16	88	3%	-9%

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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ESSENTIALS TORQ-ENCAPSULATED-SW-HE(03)

Linear Fixtures Color Data

TQ3SW-6.0HE-35-DRY-STD-TL

3546 K

CRI: 97.4

CRI R9: 95.7

TM30 Rf: 91.5

TM30 Rg: 98.1

CQS: 95.3

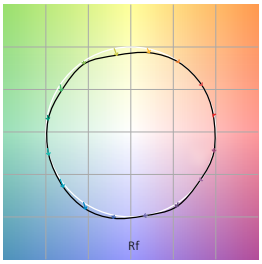
X: 0.404

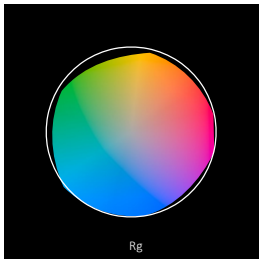
Y: 0.391

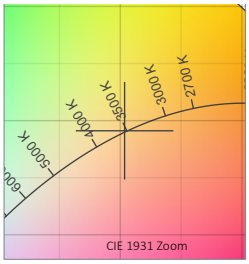
U: 0.234

V: 0.341

Δuv: 0.0006







R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
98.4	99.1	98.5	97.0	97.1	97.0	96.1	96.1	95.7	99.3	99.8	76.8	98.5	98.2	96.6
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
90.6	96.5	93.7	91.7	92.8	94.5	99.5	99.4	97.8	97.4	99.3	98.8	99.2	97.8	95.1
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
93.7	96.5	96.1	91.7	89.7	95.1	89.1	92.4	89.1	86.0	88.6	92.4	94.0	92.0	90.0	89.9

TM30			
Hue Bin	R_f	Chroma	Hue
1	94	-1%	1%
2	97	0%	-1%
3	96	-1%	-1%
4	92	-4%	-3%
5	90	-8%	-1%
6	95	-3%	1%
7	89	-5%	5%
8	92	-2%	5%
9	89	0%	8%
10	86	2%	10%
11	89	5%	6%
12	92	4%	-1%
13	94	0%	-4%
14	92	3%	-5%
15	90	-1%	-2%
16	90	0%	-4%

TQ3SW-6.0HE-40-DRY-STD-TL

4078 K

CRI: 97.1

CRI R9: 96.3

TM30 Rf: 91.2

TM30 Rg: 98.5

CQS: 94.4

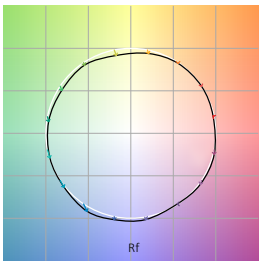
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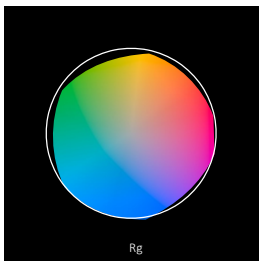
Y: 0.375

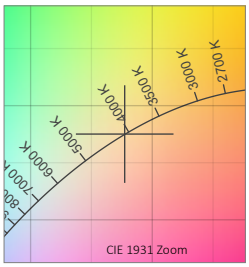
U: 0.224

V: 0.334

Δuv: 0.0002







R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
98.5	99.8	97.3	96.5	96.2	96.0	96.5	96.3	96.3	97.4	98.0	71.5	99.1	97.8	95.9
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
91.1	97.6	90.4	88.3	91.2	93.8	98.1	98.4	98.5	98.6	98.6	99.7	99.9	98.0	95.5
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
93.6	96.5	96.1	91.9	90.2	95.1	92.0	90.8	87.2	85.9	86.4	93.2	92.8	94.3	88.8	89.2

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	-2%	5%
9	87	-1%	10%
10	86	0%	9%
11	86	5%	8%
12	93	3%	1%
13	93	3%	-3%
14	94	0%	-1%
15	89	1%	-4%
16	89	1%	-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-03-05-24

ESSENTIALS LALO-ENCAPSULATED-SW-HE+(03)

Linear Fixtures Color Data

TQ3SW-6.0HE+-40-DRY-STD-TL

4062 K

CRI: 89.6

CRI R9: 56.8

TM30 Rf: 88.7

TM30 Rg: 97.4

CQS: 89.4

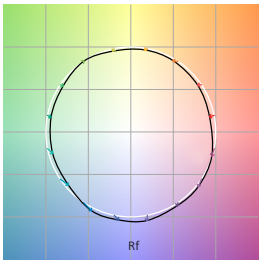
X: 0.381

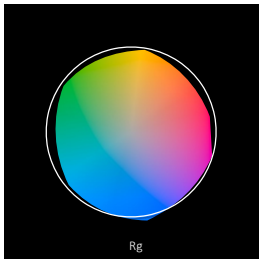
Y: 0.385

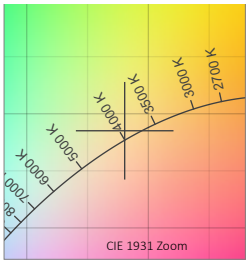
U: 0.222

V: 0.337

Δuv: 0.0038







R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
88.9	91.6	92.9	89.6	87.4	87.2	95.0	84.2	56.8	79.2	88.4	61.5	89.4	95.8	86.0
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
90.6	98.8	83.3	81.6	86.4	88.2	90.6	93.8	97.2	92.8	91.8	92.3	92.6	87.4	89.0
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
88.8	91.3	88.4	90.7	91.3	95.4	93.5	91.6	88.2	81.5	80.7	86.8	91.3	91.9	85.9	84.8

TM30			
Hue Bin	R_f	Chroma	Hue
1	89	-6%	0%
2	91	-4%	2%
3	88	-3%	5%
4	91	-2%	3%
5	91	-3%	2%
6	95	0%	0%
7	93	-4%	-1%
8	92	-5%	1%
9	88	-5%	7%
10	81	-4%	11%
11	81	3%	13%
12	87	4%	6%
13	91	6%	-2%
14	92	3%	-3%
15	86	2%	-10%
16	85	-1%	-9%

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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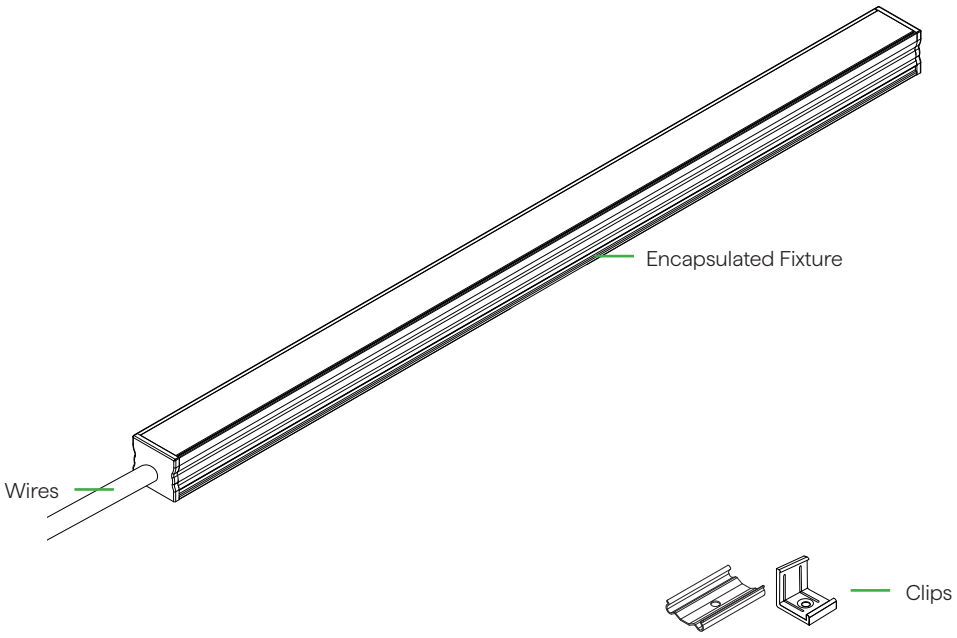
Specification subject to change. Rev-03-05-24

MATERIAL RECYCLING

ENCAPSULATED LINEAR FIXTURES

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.



7	E	40
Plastic Clips	Encapsulated Fixture Wires	Stainless Steel Clips

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