ESSENTIALS TORQ-ENCAPSULATED (03) RGBW
24VDC Linear Fixtures - Surface & Recessed

white optics · cULus LISTED · RoHS COMPLIANT · 5 YEAR WARRANTY · Declare. · Red List Approved

Dimensions: .44" / .60" / .52" / .70"

- 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
- Red, Green, and Blue LED paired with a specifiable white LED allow for color changing applications
- 21 diodes per 2" cut point allowing for minimal diode visibility

①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭	⑮	⑯	⑰	⑱
PRODUCT	WATTS/FT	CCT	RATED	EFFICIENCY	LENS	EXTERNAL LOUVER	WIRE INPUT/OUTPUT	CONNECTOR /WIRE IN	CONNECTOR /WIRE OUT	INPUT END CAP	OUTPUT END CAP	WIRE COLOR	WIRE TYPE	MOUNTING	FINISH	LENGTH (IN)	EXACT/OPTIMAL
TQ3RGBW	4.0HE		ENC														

Sample Part Number: **TQ3RGBW-4.0HE-30-ENC-WO-TL-P1-BW-BW-STD-STD-BK-CL2-SST-ST-48"-E**

① PRODUCT

TQ3RGBW

See following pages for compatible power supplies.

② WATTS/FT

4.0HE 4.0W/ft HE

③ CCT

27	RGBW-2700K
30	RGBW-3000K
35	RGBW-3500K
40	RGBW-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.

⑦ EXTERNAL LOUVER

L1-WH	White Plastic
L1-BK	Black Plastic
N/A	No Louver

Louvers are shipped separately and require field assembly

⑧ WIRE INPUT/OUTPUT

S1	Single 1 (Input only) - End Feed
S2	Single 2 (Input only) - Bottom Feed
S3	Single 3 (Input only) - Left Side Feed
S4	Single 4 (Input only) - Right Side Feed

For continuous mounting, consider bottom or side feed

P1	Pass Through 1 (Input/output) - End Feed
P2	Pass Through 2 (Input/output) - Bottom Feed
P3	Pass Through 3 (Input/output) - Left Side Feed
P4	Pass Through 4 (Input/output) - Right Side Feed

For continuous mounting, consider bottom or side feed

⑨ CONNECTOR/WIRE IN

BW	Bare Wire (Standard 24")
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)

BW	Bare Wire (Standard 24")
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)

⑩ CONNECTOR/WIRE OUT

CLS	Closed End (No feed)

BW	Bare Wire (Standard 24")
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)

⑪ INPUT END CAP

STD	Standard
CL	Clear

STD - End cap matches fixture finish chosen

Select CL for continuous runs

⑫ OUTPUT END CAP

STD	Standard
CL	Clear

STD - End cap matches fixture finish chosen

Select CL for continuous runs

⑬ WIRE COLOR

WH	White
BK	Black

⑭ WIRE TYPE

CL2	Class 2
CL2P	Plenum Rated

CL2P only available with bare wire leads (BW)

⑮ MOUNTING

SST	Stainless Steel
M4	Low Profile Magnet
MG	Magnet

⑯ FINISH

ST	Satin
BK	Black
BZ	Bronze
CU	Custom

⑰ LENGTH (IN)

Fixture length min 12", max 98.43" not including end caps.
Tolerance +0 – 1/8". Consult factory for lengths under 12".

⑱ EXACT/OPTIMAL

O	Optimal Illumination
E	Exact Specified Length

Exact fixtures are the exact length specified +0 - 1/8".
Optimal fixtures' length is rounded down with illumination end to end.
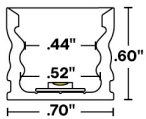See Exact/Optimal Fixture Length charts.

5 year warranty | Field modifications void warranty | Data subject to change, all data has +/- 5% tolerance | Compatible for use with QTL power supplies | IK10 rated
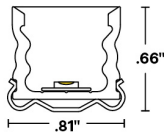
ESSENTIALS TORQ-ENCAPSULATED (03) RGBW
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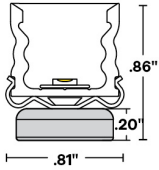
1   PRODUCT - DIMENSIONS
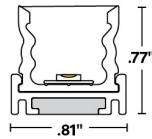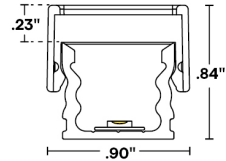

Profile

Profile with stainless steel mounting clip

Profile with magnet mounting clip

Profile with low profile magnet

Profile with plastic louver

2   DELIVERED LUMENS

[Calculated L70 = 40000 hrs]
Tested with TQ3RGBW-4.0HE-30-ENC-STD

	Red		Green		Blue		3000K	
	LM/FT	WAVELENGTH	LM/FT	WAVELENGTH	LM/FT	WAVELENGTH	LM/FT	CRI
CL	21	629	82	516	18	465	51	97
TL	18	629	69	516	15	465	42	97

[Calculated L70 = 40000 hrs]
Tested with TQ3RGBW-4.0HE-30-ENC-WO

	Red		Green		Blue		3000K	
	LM/FT	WAVELENGTH	LM/FT	WAVELENGTH	LM/FT	WAVELENGTH	LM/FT	CRI
CL	23	629	89	516	19	465	55	97
TL	20	629	78	516	17	465	48	97

6   DIODE VISIBILITY

ENC/CL - Clear encapsulation

ENC/TL - Translucent encapsulation

TEMPERATURE RATINGS

	6.0 W/FT		4.0 HE W/FT	
	Min	Max	Min	Max
Ambient Operating Temp - Surface	-4°F	100°F	-4°F	110°F

7 EXTERNAL LOUVER

PLASTIC

12"

.46"   .63"   .09"   .23"
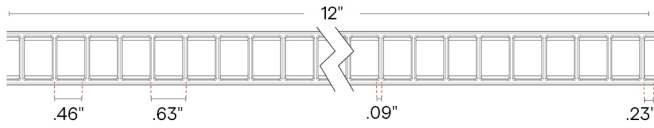
L1-XX
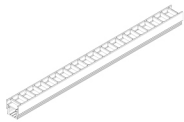
Lumen Multiplier

WH	BK
0.72	0.53

8 WIRE INPUT/OUTPUT

SINGLE (Input only)
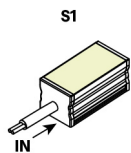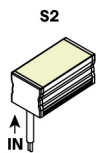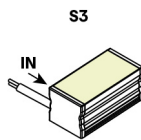
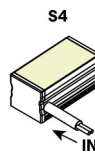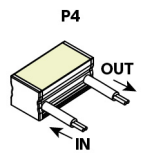| **S1**	**S2**	**S3**	**S4**
IN	IN	IN	IN
End Feed	Bottom Feed	Side Feed - Left	Side Feed - Right

PASS THROUGH (Input/Output)
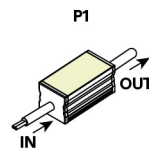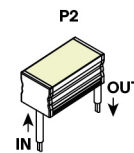
P1	**P2**	**P3**	**P4**
IN / OUT	IN / OUT	IN / OUT	IN / OUT
End Feed	Bottom Feed	Side Feed - Left	Side Feed - Right
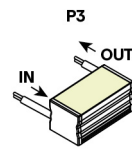
CONFIGURATION OPTIONS

S1

.08" width of end cap
.08" width of end cap

Single End Feed

S1
P1
.08" width of end cap
.08" width of end cap

Non-Continuous End Feed

.16" width of end caps
S2
P2

Continuous Bottom Feed

S3
P3
.16" width of end caps

Continuous Side Feed - Left

.16" width of end caps
S4
P4

Continuous Side Feed - Right

S1
S1
.16" width of end caps

Continuous End to End Feed

S2
P2
No dim spot, clear endcaps

Continuous Bottom Feed

S3
P3
No dim spot, clear endcaps

Continuous Side Feed - Left

No dim spot, clear endcaps
S4
P4

Continuous Side Feed - Right

S1
S1
No dim spot, clear endcaps

Continuous End to End Feed

⑨ / ⑩ 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
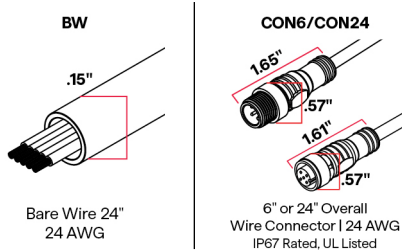
BW

.15"

Bare Wire 24"
24 AWG

CON6/CON24

1.65"
.57"
1.61"
.57"

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

⑪ / ⑫ END CAP – IN/OUT

STD

End cap matches fixture finish chosen

CL

Clear end cap
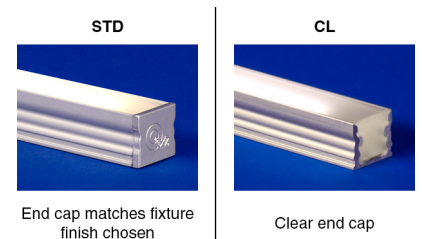
ESSENTIALS TORQ-ENCAPSULATED (03) RGBW
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13 WIRE COLOR

White

Black

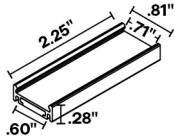## 15 MOUNTING

SST

1.25" .81" .20"
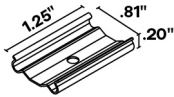
Stainless Steel Clip

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

To order separately use SST-01
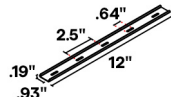
Each clip comes with a #4 x 5/8" Flat Head screw

M4

2.25" .81" .7" .60" 1.28"

Low Profile Magnet

One M4 provided per foot.

To order separately use MG-04

MMA-04

.64" 2.5" 12" .19" .93"

Magnet Mount Accessory for M4

Sold separately, to order use MMA-04

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

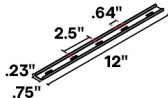Required when mounting to a non-magnetic surface

MG

1.25" .81" .20" .20"
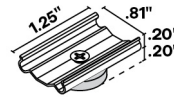
Magnet Clip

One MG provided per foot

To order separately use MG-01

MMA-01

.64" 2.5" 12" .23" .75"
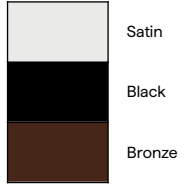
Magnet Mount Accessory of MG-01

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

## 16 FINISH

Satin

Black

Bronze

Custom color available

18 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.

Optimal Fixtures
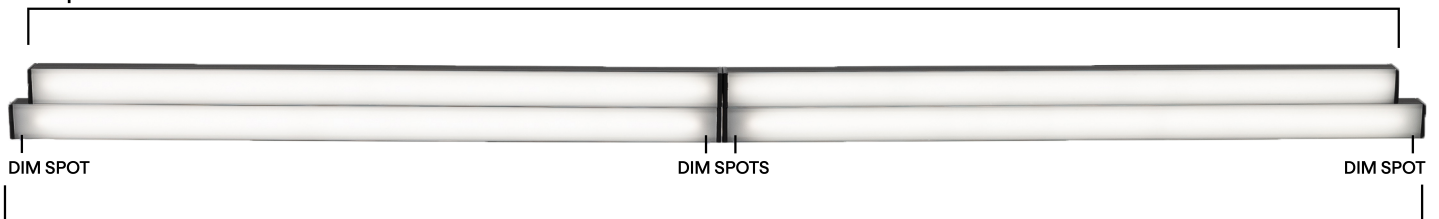
DIM SPOT   DIM SPOTS   DIM SPOT

Exact Fixtures

RGBW-HE ENC LENGTHS BY INCH

Available in any length in between 12" and 98.43", chart below shows example lengths. Exact fixtures are the length specified. Optimal fixtures' length is rounded down with illumination end to end. All fixtures' tolerance is +0 – 1/8". Consult factory for lengths under 12".

EXACT LENGTH

Requested Length	Potential dim spot on either end of 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: highlighted rows are closest to requested nominal 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"

(S1 End Feed, S2 Bottom Feed, P1 End Feed, P2 Bottom Feed, S3 Side Feed - Left, S4 Side Feed - Right, P3 Side Feed - Left, P4 Side Feed - Right)

COMPATIBLE POWER SUPPLIES

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

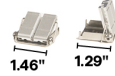| DIM TO LEVEL	INDOOR	OUTDOOR
	RGBW, RGBW-HE	**RGBW, RGBW-HE**
0.1%	QT-CAB-eLED+DMX QTM-eLED+DMX QZ-DMX	Q-SET-QZ-DMX QOM-eLED+DMX QZ-DMX
1%	QT-CAB-eLED+DALI-DT8 QTM-eLED+DALI-DT8 QZ-DALI-DT8	Q-SET+QZ-DALI-DT8 QOM-eLED+DALI-DT8 QOM-eLED+PS-DALI-DT8
10%	Non-Dim Power Supply with RGBW App Dongle	
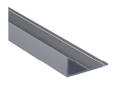
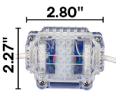| DIMMING PROTOCOL	INDOOR	OUTDOOR
	RGBW, RGBW-HE	**RGBW, RGBW-HE**
DMX	QTM-eLED+DMX QZ-DMX	Q-SET-QZ-DMX QOM-eLED+DMX QZ-DMX
DALI-2: DT8	QT-CAB-eLED+DALI-DT8 QTM-eLED+DALI-DT8 QZ-DALI-DT8	Q-SET+QZ-DALI-DT8 QOM-eLED+DALI-DT8
SCENE App Dimmed	Non-Dim Power Supply with RGBW App Dongle	

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COMPATIBLE MOUNTING ACCESSORIES

HINGE - HMB-M	HINGE - HMB-L	HINGE - HMB-XL	Q-PIVOT	Q-ANGLE	NJ-MEDIUM	NJ-LARGE	SD-J-LARGE	NU-LARGE	BL-LARGE
1.41" .71"	1.46" 1.29"	4" 1.46"	.75" 1.03"	2.23" 1.38"					
Adjustable mounting bracket - Medium	Adjustable mounting bracket - Large	Adjustable mounting bracket - XLarge	Small mounting accessory	Adjustable mounting accessory	J Mounting Bracket	J Mounting Bracket	J Mounting Bracket	U Mounting Bracket	Backwards L Mounting Bracket

NL-LARGE	SD-L-LARGE
L Mounting Bracket	L Mounting Bracket

COMPATIBLE WIRING ACCESSORIES

Q-mini-J5	CON120-EXT	CON FOUR-FER	CON M - BARREL F
2.80" 2.27"			
UL Listed, miniature junction box, DRY/DMP (WET rated with silicone)	10ft Con cable extender DRY/DMP/WET	Splits lead from one to four LED Con connectors DRY/DMP/WET	Male con to barrel cable adaptor DRY/DMP

COMPATIBLE CONTROL ACCESSORIES

SCENE APP DONGLE	iQ-DMX-STICK-GA2
1.36" 2.58"	
Wi-Fi or Bluetooth Connectivity	DMX controller for changing color & dimming

COMPATIBLE APPS

NFC APP
Q-NFC
Read and write DMX addresses and adjust voltage