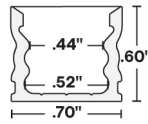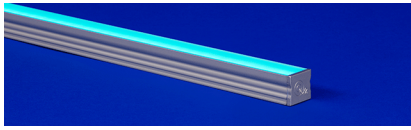# ESSENTIALS TORQ-ENCAPSULATED (03) RGB
24VDC Linear Fixtures - Surface & Recessed

.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 allows for color changing applications
- Features 7 diodes per 2" cut point
- Optional plastic louver accessory available in white or black for added glare control

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
PRODUCT	WATTS/ FT	CCT	RATED	EFFICIENCY	LENS	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
TQ3RGB	6.0	RGB	ENC													

Sample Part Number: TQ3RGB-6.0-RGB-ENC-WO-TL-P1-BW-BW-STD-STD-BK-CL2-SST-BK-48"-E

1 PRODUCT
TQ3RGB

See following pages for compatible power supplies.

2 WATTS/FT
6.0 6.0W/ft

3 CCT
RGB

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
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

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

8 CONNECTOR/WIRE IN
BW Bare Wire (Standard 24")
CON6 Connector 6"
CON24 Connector 24"

BW Bare Wire (Standard 24")
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")
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

13 WIRE TYPE
CL2 Class 2
CL2P Plenum Rated

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.

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) RGB
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
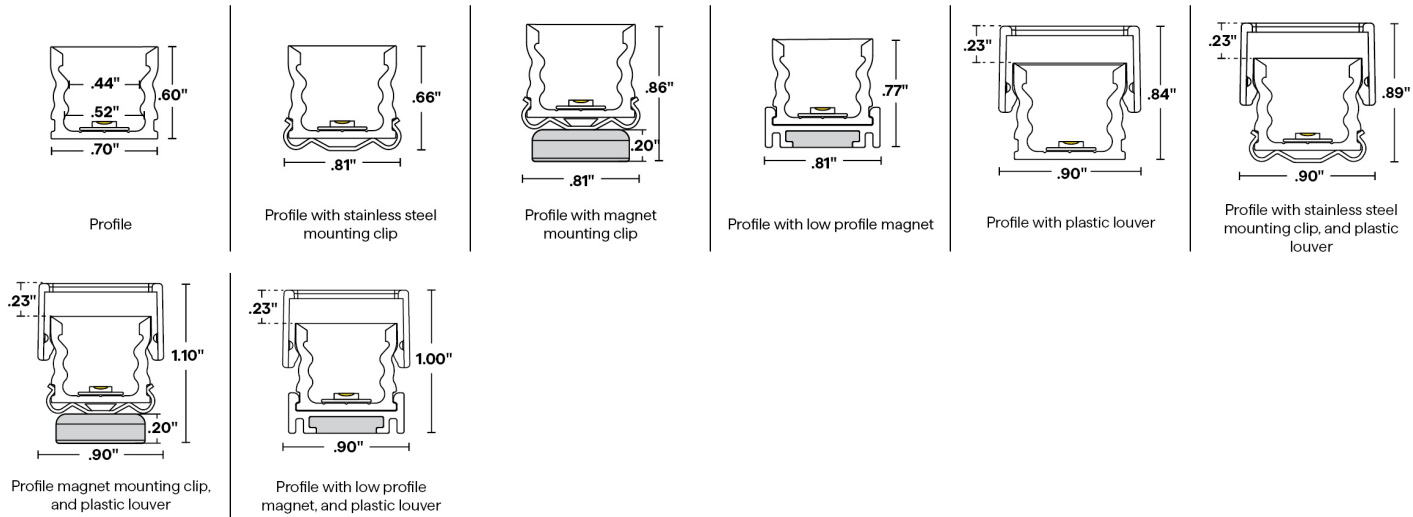
2 DELIVERED LUMENS

[Calculated L70 = 40000 hrs]
Tested with TQ3RGB-6.0-RGB-ENC-STD

	Red		Green		Blue		All
	LM/FT	WAVELENGTH	LM/FT	WAVELENGTH	LM/FT	WAVELENGTH	LM/FT
CL	54	633	109	523	31	469	174
TL	45	633	91	523	26	469	147

[Calculated L70 = 40000 hrs]
Tested with TQ3RGB-6.0-RGB-ENC-WO

	Red		Green		Blue		All
	LM/FT	WAVELENGTH	LM/FT	WAVELENGTH	LM/FT	WAVELENGTH	LM/FT
CL	58	633	117	523	33	469	188
TL	51	633	103	523	29	469	165

6 DIODE VISIBILITY

ENC/CL - Clear encapsulation

ENC/TL - Translucent encapsulation
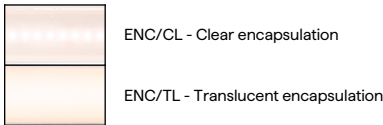
TEMPERATURE RATINGS

	6.0 W/FT	
	Min	Max
Ambient Operating Temp - Surface	-13°F	95°F

7 WIRE INPUT/OUTPUT

SINGLE (Input only)

S1	S2	S3	S4
End Feed	Bottom Feed	Side Feed - Left	Side Feed - Right
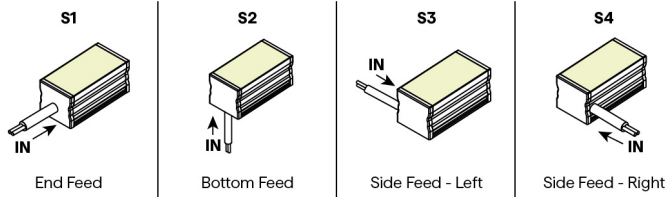
PASS THROUGH (Input/Output)

P1	P2	P3	P4
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

P1 / S1 — .08" width of end cap — Non-Continuous End Feed

.16" width of end caps — S2 / P2 — Continuous Bottom Feed

P3 / S3 — .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

P3 / S3 — 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
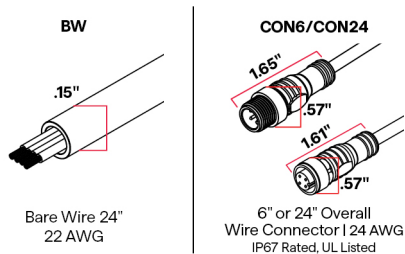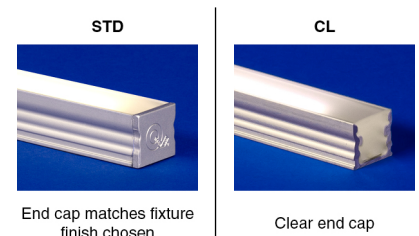
8 / 9 CONNECTOR/WIRE – IN/OUT

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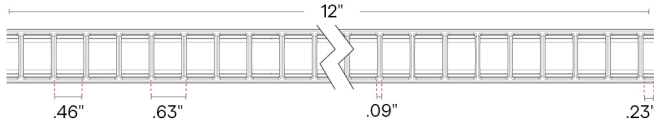
BW

.15"

Bare Wire 24"
22 AWG

CON6/CON24

1.65"
.57"
1.61"
.57"

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

10 / 11 END CAP – IN/OUT

STD	CL
End cap matches fixture finish chosen	Clear end cap

EXTERNAL LOUVER ACCESSORY

PLASTIC

12"

.46" .63" .09" .23"

L1-XX

.23" .84" .90"
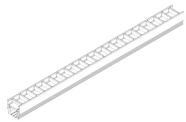
Lumen Multiplier

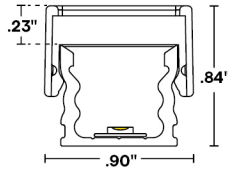| WH	BK
0.70	0.49

Profile with plastic louver

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

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12 WIRE COLOR
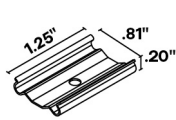
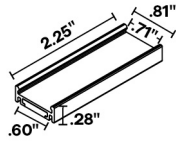|	
	White
	Black

14 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
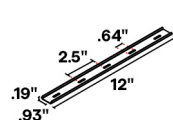
Each clip comes with a #4 x 5/8" Flat Head screw

M4

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

15 FINISH

	Satin
	Black
	Bronze

Custom finishes require a longer lead time, consult factory
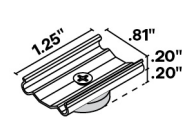
MMA-01

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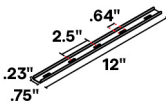
Magnet Mount Accessory of MG-01

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

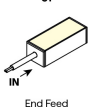## 17 EXACT/OPTIMAL FIXTURE LENGTH

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.

Optimal Fixtures

DIM SPOT   DIM SPOTS   DIM SPOT
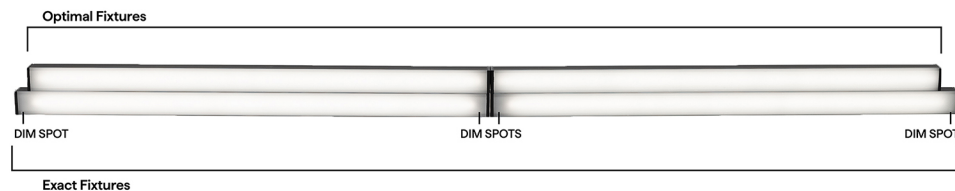
Exact Fixtures

RGB ENC LENGTHS BY INCH

EXACT LENGTH

Requested Length	Potential dim spot on either end of a S1 fixture — S1 — End Feed
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	
	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
12"	10.51"		10.86"		10.41"		10.51"	
13"	12.51"		12.86"		12.41"		12.51"	
14"	12.51"		12.86"		12.41"		12.51"	
15"	14.51"		14.86"		14.41"		14.51"	
16"	14.51"		14.86"		14.41"		14.51"	
17"	16.51"		16.86"		16.41"		16.51"	
18"	16.51"		16.86"		16.41"		16.51"	
19"	18.51"		18.86"		18.41"		18.51"	
20"	18.51"		18.86"		18.41"		18.51"	
21"	20.51"		20.86"		20.41"		20.51"	
22"	20.51"		20.86"		20.41"		20.51"	
23"	22.51"		22.86"		22.41"		22.51"	
24"	22.51"		22.86"		22.41"		22.51"	
36"	34.51"		34.86"		34.41"		34.51"	
48"	46.51"		46.86"		46.41"		46.51"	
60"	58.51"		58.86"		58.41"		58.51"	
72"	70.51"		70.86"		70.41"		70.51"	
84"	82.51"		82.86"		82.41"		82.51"	
96"	94.51"		94.86"		94.41"		94.51"	

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
	RGB	RGB
0.1%	QT-CAB-eLED+DALI-DT8 QT-CAB-eLED+DMX QTM-eLED+DALI-DT8 QTM-eLED+DMX QZ-DMX	Q-SET-QZ-DMX QOM-eLED+DALI-DT8 QOM-eLED+DMX QOM-eLED+PS-DALI-DT8 QZ-DMX
1%	QZ-DALI-DT8	Q-SET+QZ-DALI-DT8 QZ-DALI-DT8
10%	Non-Dim Power Supply with RGB App Dongle	

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

DIMMING PROTOCOL	INDOOR	OUTDOOR
	RGB	RGB
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 QZ-DALI-DT8

COMPATIBLE MOUNTING ACCESSORIES

HINGE - HMB-M
1.41" .71"
Adjustable mounting bracket - Medium

HINGE - HMB-L
1.46" 1.29"
Adjustable mounting bracket - Large

HINGE - HMB-XL
4" 1.46"
Adjustable mounting bracket - XLarge

Q-PIVOT
.75" 1.03"
Small mounting accessory

Q-ANGLE
2.23" 1.38"
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
.23" .75"
Magnet Mount Accessory of MG-01

MMA-04
.19" .93"
Magnet Mount Accessory of MG-04

COMPATIBLE WIRING ACCESSORIES

Q-mini-J5
2.80" 2.27"
UL Listed, miniature junction box, DRY/DMP (WET rated with silicone)

COMPATIBLE CONTROL ACCESSORIES

SCENE APP DONGLE
1.36" 2.58"
Wi-Fi or Bluetooth Connectivity

iQ-DMX-STICK-GA2
DMX controller for changing color & dimming

COMPATIBLE APPS

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