ESSENTIALS TORQ-FLAT (01)
RGBW HIGH EFFICACY
24VDC Linear Fixtures - Surface & Recessed

WHITE OPTICS | c(UL)us LISTED | RoHS COMPLIANT | EPD ENVIRONMENTAL PRODUCT DECLARATION | 5 YEAR WARRANTY | Red List Approved Declare.

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

- Surface mount linear fixture
- Choose from diffused, polar, or frosted for varying diode visibility and beam angles
- Offered with an optional mounting tray
- Features all wire feed options
- Mounting options include stainless steel clips, magnets, and low-profile magnet mounts
- Features painted end caps to match extrusion finish
- Red, Green, and Blue LED paired with a specifiable white LED allow for color changing applications
- 21 diodes per 2" cutpoint allowing for minimal diode visibility
- 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
PRODUCT	WATTS/ FT	CCT	RATED	EFFICIENCY	LENS	WIRE INPUT/ OUTPUT	CONNECTOR/ WIRE IN	CONNECTOR/ WIRE OUT	WIRE COLOR	WIRE TYPE	MOUNTING	FINISH	LENGTH (IN)	EXACT/ OPTIMAL

Sample Part Number: **TQ1RGBW-4.0HE-30-DRY-WO-DF-P1-BW-BW-BK-CL2-SST-BK-48"-E**

1 PRODUCT

TQ1RGBW

See following pages for compatible power supplies.

TQ1RGBW

2 WATTS/FT

4.0HE 4.0W/ft HE

8.0HE 8.0W/ft HE

3 CCT

27	RGBW-2700K
30	RGBW-3000K
35	RGBW-3500K
40	RGBW-4000K

27	RGBW-2700K
30	RGBW-3000K
35	RGBW-3500K
40	RGBW-4000K

4 RATED

DRY IP20
DMP IP54

DRY IP20

5 EFFICIENCY

STD Standard
WO White Optics

WhiteOptics - Internal coating, greater lumen output

6 LENS

DF Diffused
PR Polar
FR Frosted

Clear Lens is not available for RGBW-HE. 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)
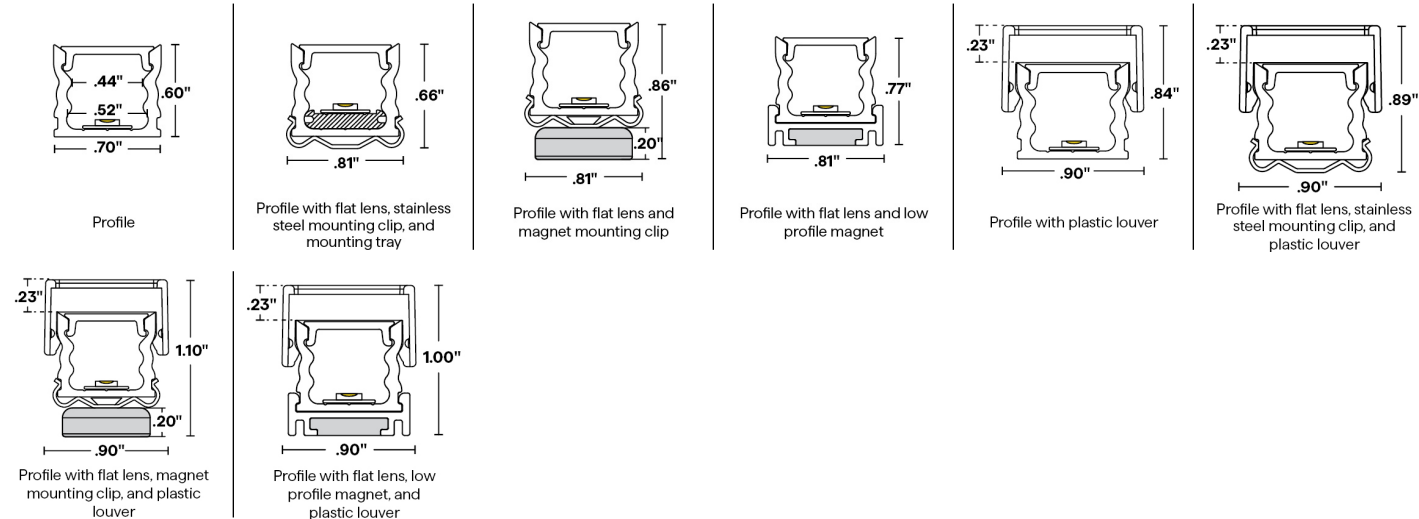
10 WIRE COLOR

WH White
BK Black

11 WIRE TYPE

CL2 Class 2
CL2P Plenum Rated

CL2P only available with bare wire leads (BW)

12 MOUNTING

SST Stainless Steel
M4 Low Profile Magnet
MG Magnet

13 FINISH

ST Satin
BK Black
BZ Bronze
CU Custom

Custom finishes require a longer lead time, consult factory

14 LENGTH (IN)

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

15 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 | Warranty only valid with QTL power supplies | Field modifications void warranty | Data subject to change, all data has +/- 5% tolerance

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1 PRODUCT - DIMENSIONS

Profile

Profile with flat lens, stainless steel mounting clip, and mounting tray

Profile with flat lens and magnet mounting clip

Profile with flat lens and low profile magnet

Profile with plastic louver

Profile with flat lens, stainless steel mounting clip, and plastic louver

Profile with flat lens, magnet mounting clip, and plastic louver

Profile with flat lens, low profile magnet, and plastic louver

2 DELIVERED LUMENS

[Calculated L70 = 70000 hrs]
Tested with TQ1RGBW-4.0HE-30-DRY-STD

	Red		Green		Blue		3000K	
	LM/FT	WAVELENGTH	LM/FT	WAVELENGTH	LM/FT	WAVELENGTH	LM/FT	CRI
60	28	629	108	516	23	465	66	97
70	28	629	109	516	23	465	67	97
FR	28	629	106	516	23	465	65	97
PR	25	629	95	516	20	465	58	97
DF	22	629	86	516	18	465	53	97

[Calculated L70 = 70000 hrs]
Tested with TQ1RGBW-4.0HE-30-DRY-WO

	Red		Green		Blue		3000K	
	LM/FT	WAVELENGTH	LM/FT	WAVELENGTH	LM/FT	WAVELENGTH	LM/FT	CRI
60	31	629	118	516	25	465	73	97
70	32	629	123	516	27	465	76	97
FR	30	629	116	516	25	465	71	97
PR	27	629	105	516	23	465	64	97
DF	24	629	93	516	20	465	57	97

6 DIODE VISIBILITY

DF - Diffused lens

PR - Polar lens

FR - Frosted lens

CL - Clear lens
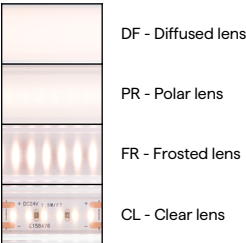
PHOTOMETRIC PERFORMANCE

Nominal beam spread shown, beam spread varies based on light engine. For more detailed information, see photometric data.
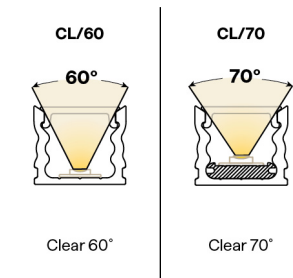
CL/60

60°
Clear 60°

CL/70

70°
Clear 70°

TEMPERATURE RATINGS

		4.0 HE W/FT		8.0 HE W/FT	
		Min	Max	Min	Max
DRY	Ambient Operating Temp - Surface	-4°F	125°F	-4°F	110°F
DMP	Ambient Operating Temp - Surface	-4°F	120°F	**	**

7 WIRE INPUT/OUTPUT

SINGLE (Input only)

S1 — End Feed

S2 — Bottom Feed

S3 — Side Feed - Left

S4 — Side Feed - Right
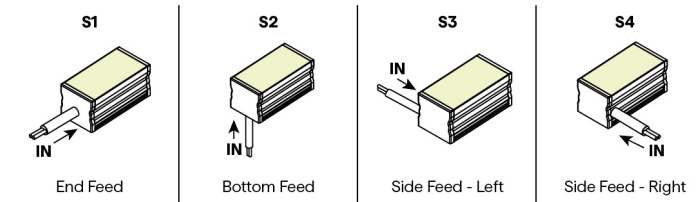
PASS THROUGH (Input/Output)

P1 — End Feed

P2 — Bottom Feed

P3 — Side Feed - Left

P4 — Side Feed - Right

CONFIGURATION OPTIONS

S1 — .08" width of end cap / .08" width of end cap — Single End Feed

P1 / S1 — Connection by others — Non-Continuous End Feed

P1 / S1 — Connection by others — Non-Continuous Corner Feed

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

S3 / P3 — .16" width of end caps — Continuous Side Feed - Left

S4 / P4 — .16" width of end caps — Continuous Side Feed - Right

S1 / S1 — .16" width of end caps — Continuous End to End Feed
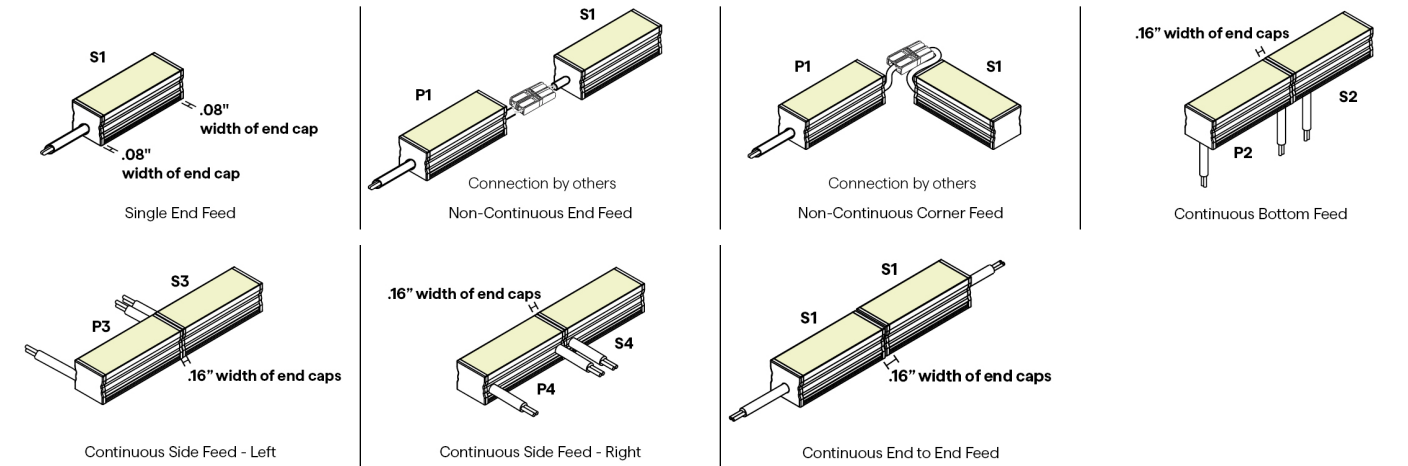
8 / 9 CONNECTOR/WIRE – IN/OUT

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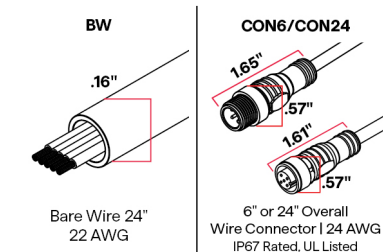
BW

.16"
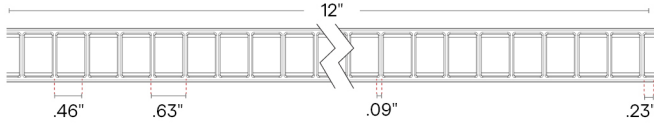
Bare Wire 24"
22 AWG

CON6/CON24

1.65" .57"
1.61" .57"

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

10 WIRE COLOR

White

Black

EXTERNAL LOUVER ACCESSORY

PLASTIC

12"

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

L1-XX

.23"   .84"   .90"
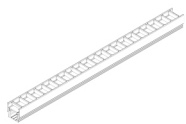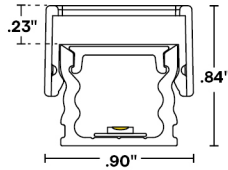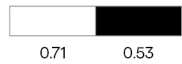
Profile with plastic louver

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

Lumen Multiplier

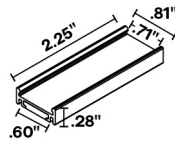| WH	BK
0.71	0.53

12 MOUNTING

SST

1.25"   .81"   .20"
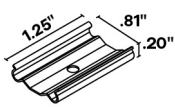
Stainless Steel Clip

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

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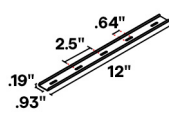
Each clip comes with a #4 x
5/8" Flat Head SS

M4

2.25"   .81"   .71"
.60"   .28"

Low Profile Magnet

One M4 provided per foot.

To order separately use
MG-04

MMA-04
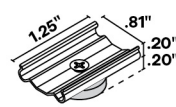
.64"   2.5"   12"
.19"   .93"

**Magnet Mount
Accessory for M4**

Sold separately, to order use
MMA-04

Each bracket comes with 2 #6
x 5/8 Flat Head SS
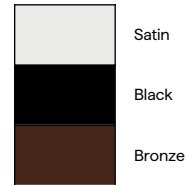
Required when mounting to a
non-magnetic surface

MG

1.25"   .81"   .20"   .20"

Magnet Clip

One MG provided per foot

To order separately use MG-01

MMA-01

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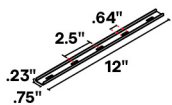
**Magnet Mount
Accessory of MG-01**

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

13 FINISH

	Satin
	Black
	Bronze

Custom finishes require a longer
lead time, consult factory

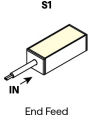## 14 EXACT/OPTIMAL FIXTURE LENGTH

[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.
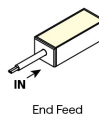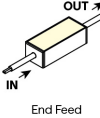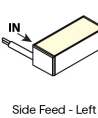
Optimal Fixtures

DIM SPOT   DIM SPOTS   DIM SPOT
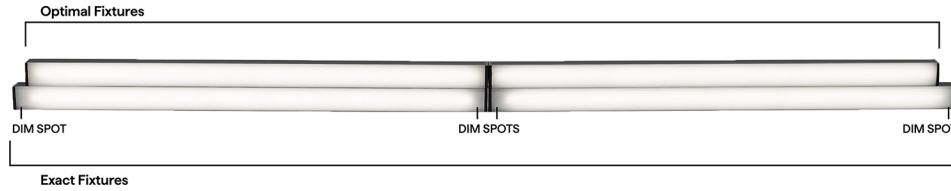
Exact Fixtures

RGBW DRY DMP LENGTHS BY INCH

EXACT LENGTH

Requested Length	Potential dim spot on either end of a S1 fixture — S1 — IN — End Feed
12"	2"
13"	0.5"
14"	1"
15"	1.5"
16"	2"
17"	0.5"
18"	1"
19"	1.5"
20"	2"
21"	0.5"
22"	1"
23"	1.5"
24"	2"
36"	2"
48"	2"
60"	2"
72"	2"
84"	2"
96"	2"

OPTIMAL LENGTH

Requested Nominal Length	S1 & S2 — S1 End Feed / S2 Bottom Feed	P1 & P2 — P1 End Feed / P2 Bottom Feed	S3 & S4 — S3 Side Feed - Left / S4 Side Feed - Right	P3 & P4 — P3 Side Feed - Left / P4 Side Feed - Right
12"	8.51"	8.86"	8.41"	8.51"
13"	12.51"	12.86"	12.41"	12.51"
14"	12.51"	12.86"	12.41"	12.51"
15"	12.51"	12.86"	12.41"	12.51"
16"	12.51"	12.86"	12.41"	12.51"
17"	16.51"	16.86"	16.41"	16.51"
18"	16.51"	16.86"	16.41"	16.51"
19"	16.51"	16.86"	16.41"	16.51"
20"	16.51"	16.86"	16.41"	16.51"
21"	20.51"	20.86"	20.41"	20.51"
22"	20.51"	20.86"	20.41"	20.51"
23"	20.51"	20.86"	20.41"	20.51"
24"	20.51"	20.86"	20.41"	20.51"
36"	32.51"	32.86"	32.41"	32.51"
48"	44.51"	44.86"	44.41"	44.51"
60"	56.51"	56.86"	56.41"	56.51"
72"	68.51"	68.86"	68.41"	68.51"
84"	80.51"	80.86"	80.41"	80.51"
96"	92.51"	92.86"	92.41"	92.51"

COMPATIBLE POWER SUPPLIES

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

DIM TO LEVEL	INDOOR
	RGBW, RGBW-HE
0.1%	QT-CAB-eLED+DALI-DT8 QT-CAB-eLED+DMX QTM-eLED+DALI-DT8 QTM-eLED+DMX QZ-DMX
1%	QZ-DALI-DT8
10%	Non-Dim Power Supply with RGBW App Dongle

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24VDC Linear Fixtures - Surface & Recessed

DIMMING PROTOCOL	INDOOR
	RGBW, RGBW-HE
DMX	QTM-eLED+DMX QZ-DMX
DALI-2: DT8	QT-CAB-eLED+DALI-DT8 QTM-eLED+DALI-DT8 QZ-DALI-DT8
SCENE App Dimmed	Non-Dim Power Supply with RGBW App Dongle

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

VHB
Double sided mounting tape

NJ-MEDIUM
J Mounting Bracket

NJ-LARGE
J Mounting Bracket

NU-LARGE
U Mounting Bracket

SD-J-LARGE
J 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

iQ-DMX-STICK-DE3
DMX controller for changing color & dimming