



ESSENTIALS TORQ-FLAT (01)

RGBW HIGH EFFICACY

24VDC Linear Fixtures - Surface & Recessed

white
optics

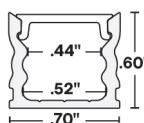
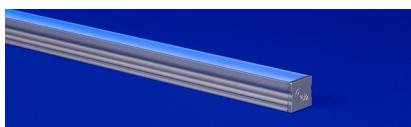


RoHS
COMPLIANT

5 YEAR
WARRANTY

Declare.

Red List
Approved



- Surface mount linear fixture
- Choose from diffused, polar, frosted, clear 60°, or clear 70° lens options 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

1 PRODUCT	2 WATTS/ FT	3 CCT	4 RATED	5 EFFICIENCY	6 LENS	7 EXTERNAL LOUVER	8 WIRE INPUT/ OUTPUT	9 CONNECTOR / WIRE IN	10 CONNECTOR / WIRE OUT	11 WIRE COLOR	12 WIRE TYPE	13 MOUNTING	14 FINISH	15 LENGTH (IN)	16 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.	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 DRY IP20 DMP IP54	5 EFFICIENCY STD Standard WO White Optics WhiteOptics - Internal coating, greater lumen output	6 LENS DF Diffused PR Polar FR Frosted CL/60 Clear 60° CL/70 Clear 70°	7 EXTERNAL LOUVER L1-WH White Plastic L1-BK Black Plastic N/A No Louver Louvers are shipped separately and require field assembly
TQ1RGBW	8.0HE 8.0W/ft HE	27 RGBW-2700K 30 RGBW-3000K 35 RGBW-3500K 40 RGBW-4000K	DRY IP20			
						For representation of LED visibility, see Diode Visibility section on following pages. For beam angles, see Photometric Performance section on following pages
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	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)	10 CONNECTOR/WIRE OUT CLS Closed End (No feed)	11 WIRE COLOR WH White BK Black			
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	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 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)				
12 WIRE TYPE CL2 Class 2 CL2P Plenum Rated CL2P only available with bare wire leads (BW)	13 MOUNTING SST Stainless Steel M4 Low Profile Magnet MG Magnet	14 FINISH ST Satin BK Black BZ Bronze CU Custom	15 LENGTH (IN) Fixture length min 12", max 98.43" not including end caps. Tolerance +0 - 1/8". Consult factory for lengths under 12".	16 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.		

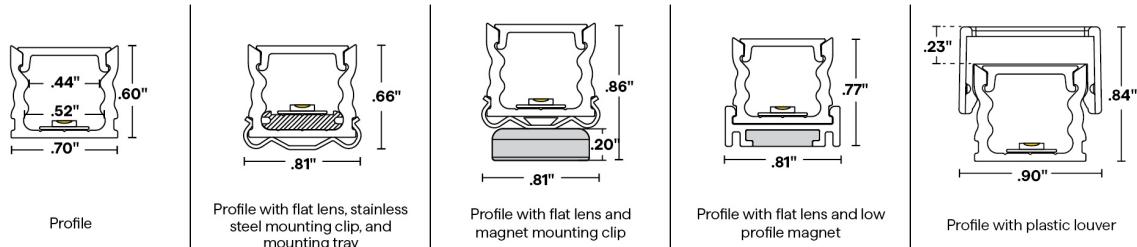
5 year warranty | Warranty only valid with QTL power supplies | Field modifications void warranty | Data subject to change, all data has +/- 5% tolerance



ESSENTIALS TORQ-FLAT (01) RGBW HIGH EFFICACY

24VDC Linear Fixtures - Surface & Recessed

1 PRODUCT - DIMENSIONS



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

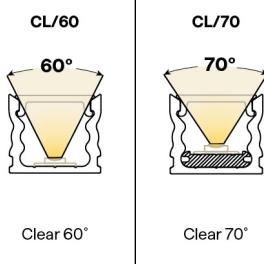
6 DIODE VISIBILITY



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.





ESSENTIALS TORQ-FLAT (01) RGBW HIGH EFFICACY

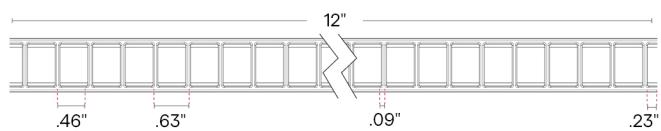
24VDC Linear Fixtures - Surface & Recessed

TEMPERATURE RATINGS

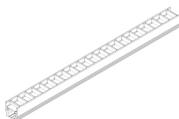
	4.0 HE W/FT		8.0 HE W/FT		
	Min	Max	Min	Max	
DRY	Ambient Operating Temp - Surface	-4°F	125°F	-4°F	110°F
DMP	Ambient Operating Temp - Surface	-4°F	120°F	**	**

7 EXTERNAL LOUVER

PLASTIC



L1-XX

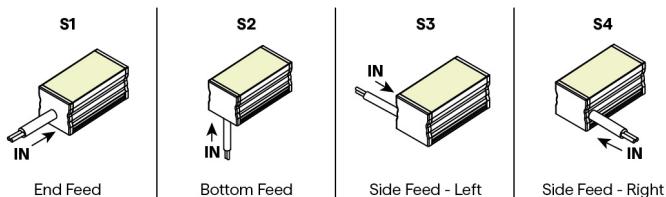


Lumen Multiplier

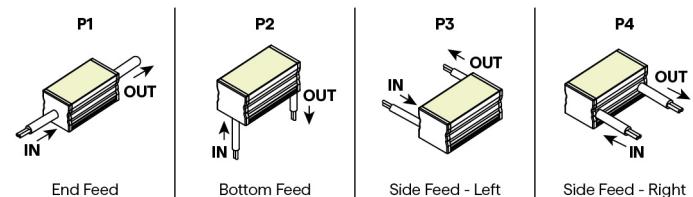
WH	BK
0.72	0.53

8 WIRE INPUT/OUTPUT

SINGLE (Input only)



PASS THROUGH (Input/Output)

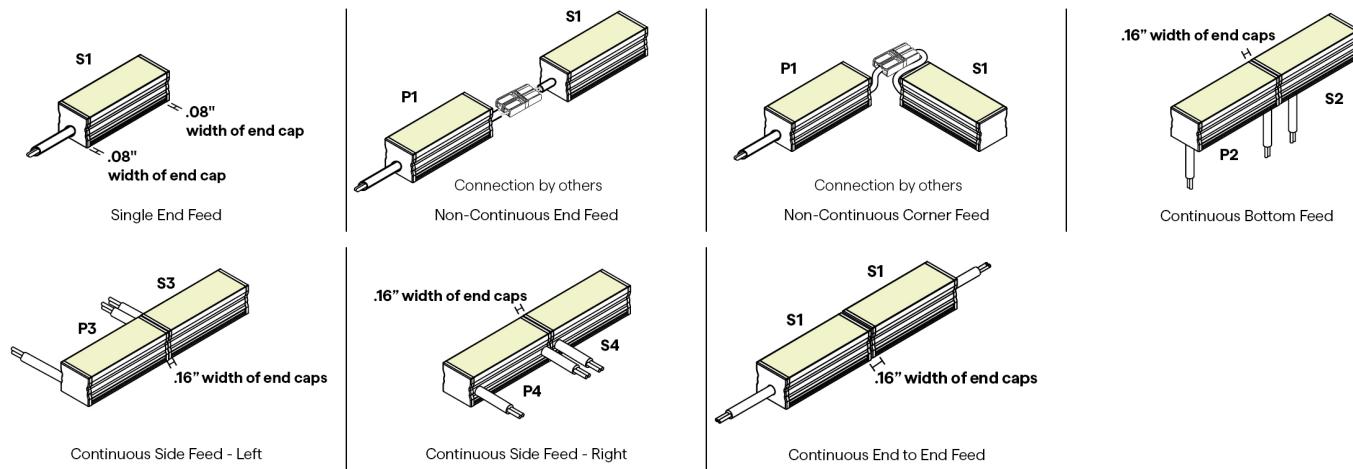




ESSENTIALS TORQ-FLAT (01) RGBW HIGH EFFICACY

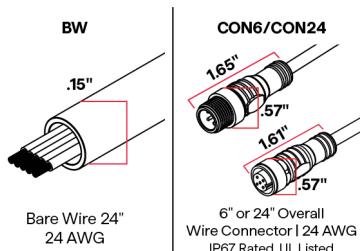
24VDC Linear Fixtures - Surface & Recessed

CONFIGURATION OPTIONS



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



11 WIRE COLOR

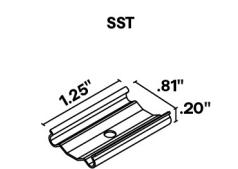




ESSENTIALS TORQ-FLAT (01) RGBW HIGH EFFICACY

24VDC Linear Fixtures - Surface & Recessed

13 MOUNTING

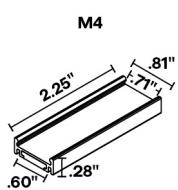


Stainless Steel Clip

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

To order separately use SST-01

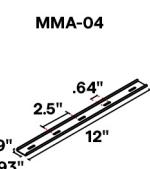
Each clip comes with a #4 x 5/8" Flat Head SS



Low Profile Magnet

One M4 provided per foot.

To order separately use MG-04

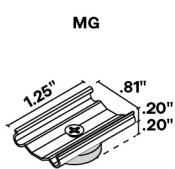


Magnet Mount Accessory for M4

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



Magnet Clip

One MG provided per foot

To order separately use MG-01



Satin

Black

Bronze

Custom color available

MMA-01



Magnet Mount Accessory of MG-01

Sold separately, to order use MMA-01

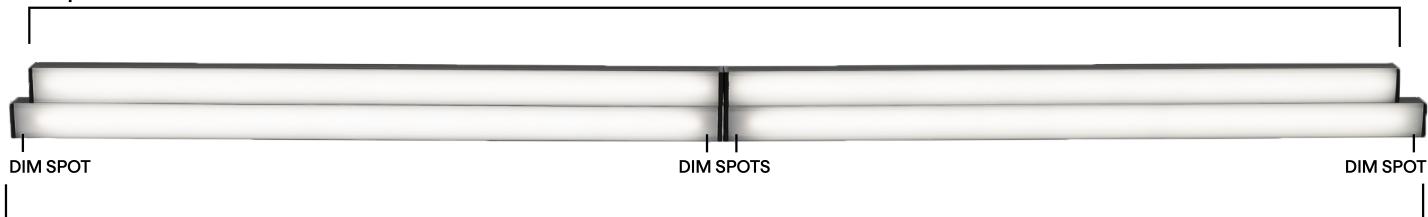
Each bracket comes with 2 #6 x 5/8" Flat Head SS

Required when mounting to a non-magnetic surface

16 EXACT/OPTIMAL FIXTURE LENGTH

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



Exact Fixtures



ESSENTIALS TORQ-FLAT (01) RGBW HIGH EFFICACY

24VDC Linear Fixtures - Surface & Recessed

RGBW-HE DRY, DMP 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 $\pm 0 - 1/8"$. 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	
	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"	10.41"		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"	

COMPATIBLE POWER SUPPLIES

See power supplies cut sheets for more information. Data subject to change, all data has $\pm 5\%$ tolerance.

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

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	



ESSENTIALS TORQ-FLAT (01) RGBW HIGH EFFICACY

24VDC Linear Fixtures - Surface & Recessed

COMPATIBLE MOUNTING ACCESSORIES

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

COMPATIBLE WIRING ACCESSORIES

Q-mini-J5  2.27" 2.80"	CON120-EXT 
UL Listed, miniature junction box, DRY/DMP (WET rated with silicone)	10ft Con cable extender DRY/DMP/WET

COMPATIBLE CONTROL ACCESSORIES

SCENE APP DONGLE  1.36" 2.58"	IQ-DMX-STICK-QA2 	IQ-DMX-STICK-DE3 
Wi-Fi or Bluetooth Connectivity	DMX controller for changing color & dimming	DMX controller for changing color & dimming