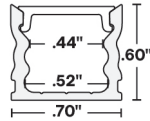
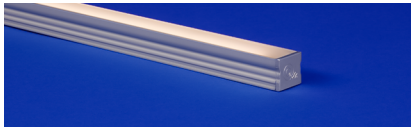




ESSENTIALS TORQ-FLAT (01) FOR TUNABLE APPLICATIONS

24VDC Linear Fixtures - Surface & Recessed



- 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
- 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
- Used in applications where CCT and brightness need to be controlled separately
- When using DALI and DMX power supplies, LED wattage must be doubled



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
PRODUCT	WATTS/FT	CCT	RATED	EFFICIENCY	LENS	EXTERNAL LOUVER	WIRE INPUT/ OUTPUT	CONNECTOR / WIRE IN	CONNECTOR / WIRE OUT	WIRE COLOR	WIRE TYPE	MOUNTING	FINISH	LENGTH (IN)	EXACT/ OPTIMAL
TQ1DW															

Sample Part Number: **TQ1DW-2.5HE-20/30-DRY-WO-DF-P1-BW-BW-BK-CL2-SST-BK-48"-E**

<div>1</div> <div>PRODUCT</div> <div>TQ1DW</div> <div>LED engine is built with 3 wires requiring 0-10V, DMX or DALI control. Using DALI, DMX, or non QTL power supplies may double watts/ft. See following pages for compatible power supplies.</div>	<div>2</div> <div>WATTS/FT</div> <div><div>1.5HE1.5W/ft HE</div><div>2.5HE2.5W/ft HE</div><div>4.0HE4.0W/ft HE</div></div> <div><div>1.5HE1.5W/ft HE</div><div>2.5HE2.5W/ft HE</div></div>	<div>3</div> <div>CCT</div> <div><div>20/272000K/2700K</div><div>20/302000K/3000K</div><div>27/402700K/4000K</div><div>27/552700K/5500K</div></div> <div><div>24/302400K/3000K</div><div>27/402700K/4000K</div></div>	<div>4</div> <div>RATED</div> <div><div>DRYIP20</div></div> <div><div>DMPIP54</div></div>	<div>5</div> <div>EFFICIENCY</div> <div><div>STDStandard</div><div>WOWhite Optics</div></div> <div>WhiteOptics - Internal coating, greater lumen output</div>	<div>6</div> <div>LENS</div> <div><div>DFDiffused</div><div>PRPolar</div><div>FRFrosted</div><div>CL/60Clear 60°</div><div>CL/70Clear 70°</div></div> <div>For representation of LED visibility, see Diode Visibility section on following pages. For beam angles, see Photometric Performance section on following pages</div>	<div>7</div> <div>EXTERNAL LOUVER</div> <div><div>L1-WHWhite Plastic</div><div>L1-BKBlack Plastic</div><div>N/ANo Louver</div></div> <div>Louvers are shipped separately and require field assembly</div>
<div>8</div> <div>WIRE INPUT/OUTPUT</div> <div><div>S1Single 1 (Input only) - End Feed</div><div>S2Single 2 (Input only) - Bottom Feed</div><div>S3Single 3 (Input only) - Left Side Feed</div><div>S4Single 4 (Input only) - Right Side Feed</div></div> <div>For continuous mounting, consider bottom or side feed</div> <div><div>P1Pass Through 1 (Input/output) - End Feed</div><div>P2Pass Through 2 (Input/output) - Bottom Feed</div><div>P3Pass Through 3 (Input/output) - Left Side Feed</div><div>P4Pass Through 4 (Input/output) - Right Side Feed</div></div> <div>For continuous mounting, consider bottom or side feed</div>	<div>9</div> <div>CONNECTOR/WIRE IN</div> <div><div>BWBare Wire (Standard 24")</div><div>CON6Connector 6"</div><div>CON24Connector 24"</div></div> <div>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)</div> <div><div>BWBare Wire (Standard 24")</div><div>CON6Connector 6"</div><div>CON24Connector 24"</div></div> <div>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)</div>	<div>10</div> <div>CONNECTOR/WIRE OUT</div> <div><div>CLS</div><div>Closed End (No feed)</div></div> <div><div>BWBare Wire (Standard 24")</div><div>CON6Connector 6"</div><div>CON24Connector 24"</div></div> <div>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)</div>	<div>11</div> <div>WIRE COLOR</div> <div><div>WHWhite</div><div>BKBlack</div></div>			
<div>12</div> <div>WIRE TYPE</div> <div><div>CL2Class 2</div><div>CL2PPlenum Rated</div></div> <div>CL2P only available with bare wire leads (BW)</div>	<div>13</div> <div>MOUNTING</div> <div><div>SSTStainless Steel</div><div>M4Low Profile Magnet</div><div>MGMagnet</div></div>	<div>14</div> <div>FINISH</div> <div><div>STSatin</div><div>BKBlack</div><div>BZBronze</div><div>CUCustom</div></div>	<div>15</div> <div>LENGTH (IN)</div> <div><div>Fixture length min 12", max 98.43" not including end caps. Tolerance +0 – 1/8". Consult factory for lengths under 12".</div></div>	<div>16</div> <div>EXACT/OPTIMAL</div> <div><div>O</div><div>Optimal Illumination</div><div>E</div><div>Exact Specified Length</div></div> <div>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.</div>		

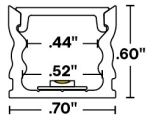
5 year warranty | Warranty only valid with QTL power supplies | Field modifications void warranty | Data subject to change, all data has +/- 5% tolerance



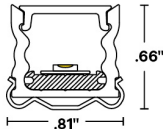
ESSENTIALS TORQ-FLAT (01) FOR TUNABLE APPLICATIONS

24VDC Linear Fixtures - Surface & Recessed

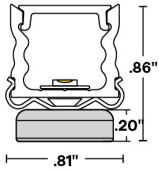
1 PRODUCT - DIMENSIONS



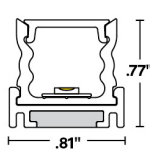
Profile



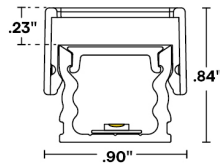
Profile with flat lens, stainless steel mounting clip, and mounting tray



Profile with flat lens and magnet mounting clip



Profile with flat lens and low profile magnet



Profile with plastic louver

2 DELIVERED LUMENS

[Calculated L70 = 70000 hrs]
Tested with TQ1DW-**-30-DRY-STD

	1.5HE W/FT		2.5HE W/FT		4.0HE W/FT	
	LM/FT	CRI	LM/FT	CRI	LM/FT	CRI
60	125	98	198	98	307	98
70	127	98	200	98	311	98
FR	123	98	194	98	302	98
PR	110	98	174	98	271	98
DF	100	98	157	98	245	98

[Calculated L70 = 70000 hrs]
Tested with TQ1DW-**-30-DRY-WO

	1.5HE W/FT		2.5HE W/FT		4.0HE W/FT	
	LM/FT	CRI	LM/FT	CRI	LM/FT	CRI
60	137	98	217	98	338	98
70	143	98	226	98	352	98
FR	135	98	213	98	331	98
PR	122	98	192	98	299	98
DF	108	98	171	98	266	98

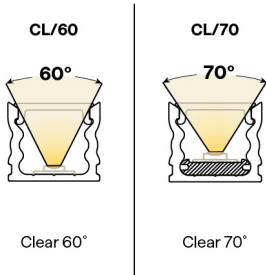
6 DIODE VISIBILITY



- 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) FOR TUNABLE APPLICATIONS

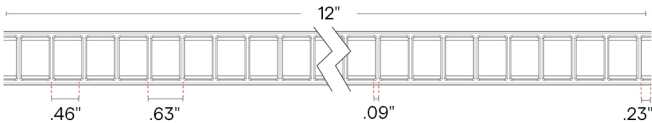
24VDC Linear Fixtures - Surface & Recessed

TEMPERATURE RATINGS

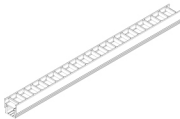
		DW 1.5 HE W/FT				DW 2.5 HE W/FT				DW 4.0 HE W/FT			
		Q-Tran power supply other than DALI, DMX		DALI, DMX, or non-Q-Tran power supply		Q-Tran power supply other than DALI, DMX		DALI, DMX, or non-Q-Tran power supply		Q-Tran power supply other than DALI, DMX		DALI, DMX, or non-Q-Tran power supply	
		Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
DRY	Ambient Operating Temp - Surface	-4°F	145°F	-4°F	135°F	-4°F	140°F	-4°F	120°F	-4°F	130°F	-4°F	110°F
DMP	Ambient Operating Temp - Surface	-4°F	140°F	-4°F	130°F	-4°F	135°F	-4°F	115°F	**	**	**	**

7 EXTERNAL LOUVER

PLASTIC



L1-XX



Lumen Multiplier

WH BK

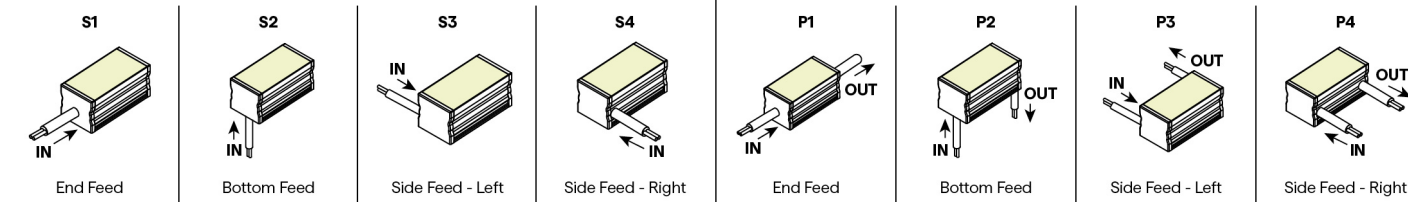


0.72 0.53

8 WIRE INPUT/OUTPUT

SINGLE (Input only)

PASS THROUGH (Input/Output)

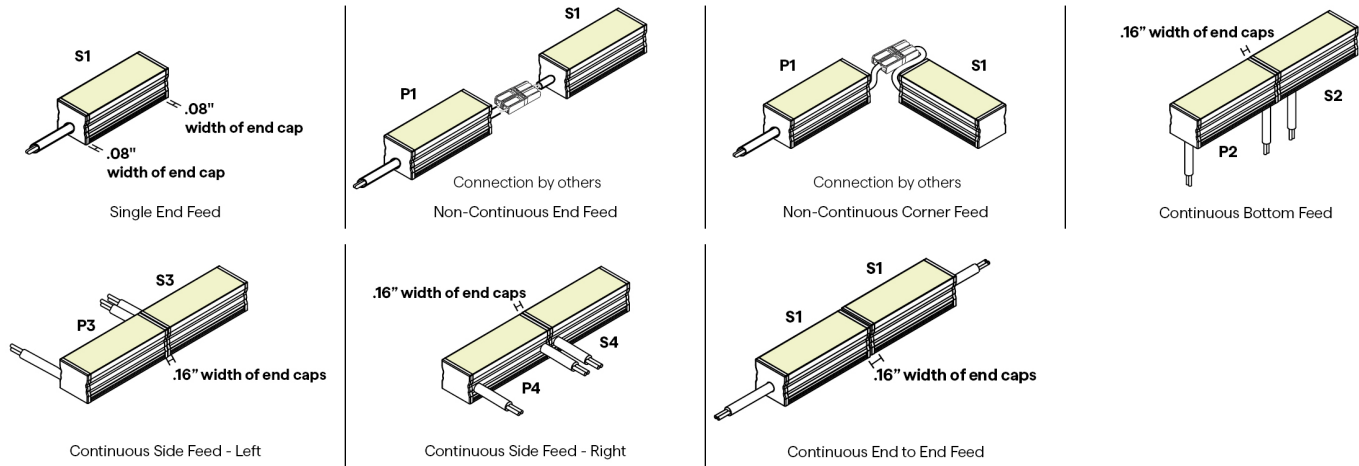




ESSENTIALS TORQ-FLAT (01) FOR TUNABLE APPLICATIONS

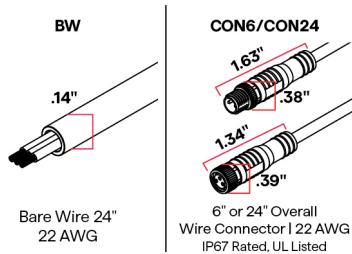
24VDC Linear Fixtures - Surface & Recessed

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



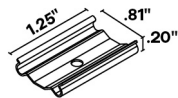


ESSENTIALS TORQ-FLAT (01) FOR TUNABLE APPLICATIONS

24VDC Linear Fixtures - Surface & Recessed

13 MOUNTING

SST



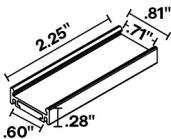
Stainless Steel Clip

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 SS

M4

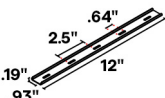


Low Profile Magnet

One M4 provided per foot.

To order separately use MG-04

MMA-04



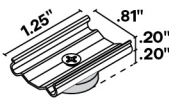
Magnet Mount Accessory for M4

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

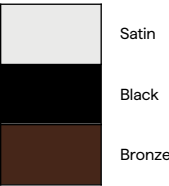


Magnet Clip

One MG provided per foot

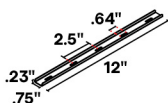
To order separately use MG-01

14 FINISH



Custom color available

MMA-01



Magnet Mount Accessory of MG-01

Sold separately, to order use MMA-01

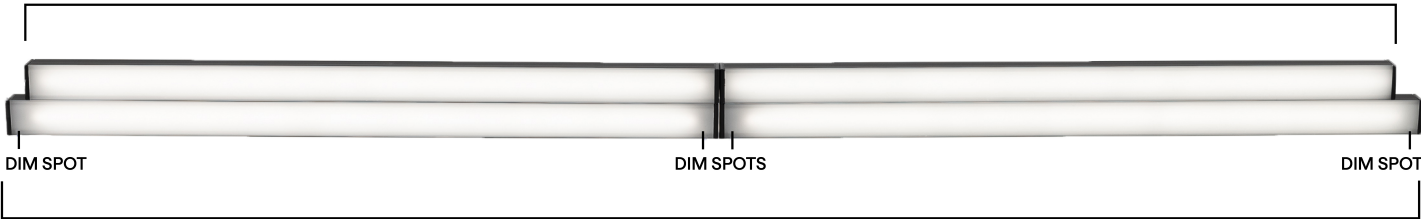
Each bracket comes with 2 #6 x 5/8" Flat Head SS

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) FOR TUNABLE APPLICATIONS

24VDC Linear Fixtures - Surface & Recessed

DW-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 +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"

COMPATIBLE POWER SUPPLIES

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

DIM TO LEVEL	INDOOR
	DW-HE Tunable Applications
0.1%	QT-CAB-eLED+TW QT-CAB-eLED+TW-AWN QTM-eLED+TW QTM-eLED+TW-AWN QZ-DMX
1%	QT-CAB-eLED+DALI-DT6 QT-CAB-eLED+DALI-DT8 QT-CAB-eLED+DALI-DT8-AWN QTM-eLED+DALI-DT6 QTM-eLED+DALI-DT8 QTM-eLED+DALI-DT8-AWN QZ-DALI-DT8
10%	Non-Dim Power Supply with TW App Dongle



ESSENTIALS TORQ-FLAT (01) FOR TUNABLE APPLICATIONS

24VDC Linear Fixtures - Surface & Recessed

DIMMING PROTOCOL	INDOOR
	DW-HE Tunable Applications
0-10V	QT-CAB-eLED+TW QT-CAB-eLED+TW-AWN QTM-eLED+TW QTM-eLED+TW-AWN
Lutron Athena	QT-CAB-eLED+DALI-DT8-AWN QT-CAB-eLED+TW-AWN QTM-eLED+DALI-DT8-AWN QTM-eLED+TW-AWN
DMX LED wattage must be doubled for DW-HE products	QZ-DMX
DALI-2: DT6 LED wattage must be doubled for DW-HE products	QT-CAB-eLED+DALI-DT6 QTM-eLED+DALI-DT6
DALI-2: DT8 LED wattage must be doubled for DW-HE products	QT-CAB-eLED+DALI-DT8 QT-CAB-eLED+DALI-DT8-AWN QTM-eLED+DALI-DT8 QTM-eLED+DALI-DT8-AWN QZ-DALI-DT8
SCENE App Dimmed	Non-Dim Power Supply with TW 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

1.46" 4"

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

COMPATIBLE WIRING ACCESSORIES

Q-mini-J5

2.80" 2.27"

UL Listed, miniature junction box, DRY/DMP (WET rated with silicone)

CON120-EXT

10ft Con cable extender DRY/DMP/WET

COMPATIBLE CONTROL ACCESSORIES

SCENE APP DONGLE

1.36" 2.58"

Wi-Fi or Bluetooth Connectivity