



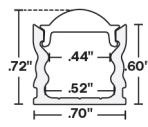
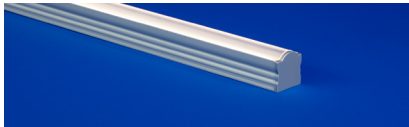
ESSENTIALS TORQ-OPTICS (02)

TUNABLE APPLICATIONS

24VDC Linear Fixtures - Surface & Recessed



Declare.



- Surface mount linear fixture for grazing
- Choose from a 12° or 40° beam angle
- Mounting tray available
- Features all wire feed options
- Ideal for direct and indirect applications
- 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
TQ2DW															

Sample Part Number: TQ2DW-2.5HE-20/30-DRY-WO-12-P1-BW-BW-BK-CL2-SST-BK-48"-E

<div>1</div> <div>PRODUCT</div> <div>TQ2DW</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>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>12Optical 12°</div><div>40Optical 40° DRY or DMP only</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>S3, S4, P3, P4 with the 40 Degree Lens are not available in Louver</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. 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>		

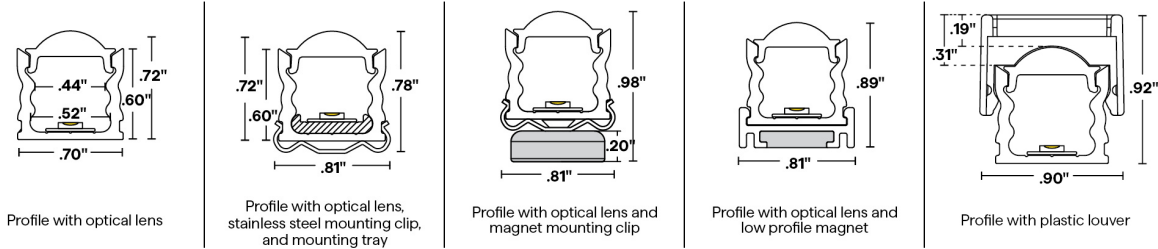
5 year warranty | Warranty only valid with QTL power supplies | Field modifications void warranty | Data subject to change, all data has +/- 5% tolerance



ESSENTIALS TORQ-OPTICS (02) TUNABLE APPLICATIONS

24VDC Linear Fixtures - Surface & Recessed

1 PRODUCT - DIMENSIONS



2 DELIVERED LUMENS

[Calculated L70 = 70000 hrs]
Tested with TQ2DW-**-30-DRY-STD

	1.5HE W/FT		2.5HE W/FT		4.0HE W/FT	
	LM/FT	CRI	LM/FT	CRI	LM/FT	CRI
12	128	98	202	98	315	98
40	160	98	253	98	394	98

[Calculated L70 = 70000 hrs]
Tested with TQ2DW-**-30-DRY-WO

	1.5HE W/FT		2.5HE W/FT		4.0HE W/FT	
	LM/FT	CRI	LM/FT	CRI	LM/FT	CRI
12	134	98	211	98	328	98
40	167	98	264	98	411	98

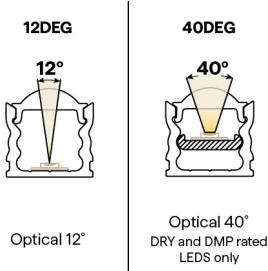
6 DIODE VISIBILITY



Optical lens

PHOTOMETRIC PERFORMANCE

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



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	**	**	**	**

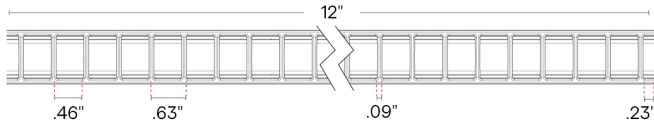


ESSENTIALS TORQ-OPTICS (02) TUNABLE APPLICATIONS

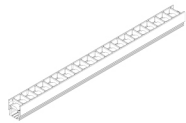
24VDC Linear Fixtures - Surface & Recessed

7 EXTERNAL LOUVER

PLASTIC



L1-XX



Lumen Multiplier

WH

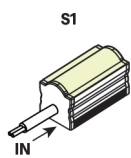
BK

0.72

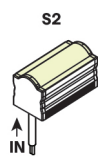
0.53

8 WIRE INPUT/OUTPUT

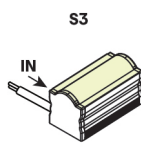
SINGLE (Input only)



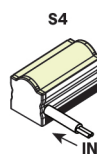
End Feed



Bottom Feed

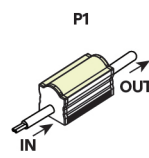


Side Feed - Left

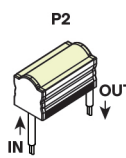


Side Feed - Right

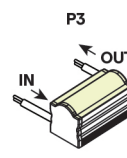
PASS THROUGH (Input/Output)



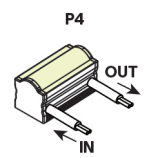
End Feed



Bottom Feed

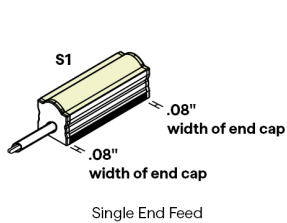


Side Feed - Left

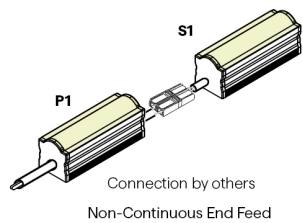


Side Feed - Right

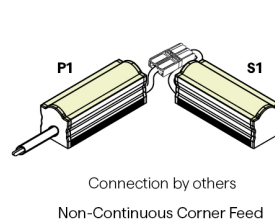
CONFIGURATION OPTIONS



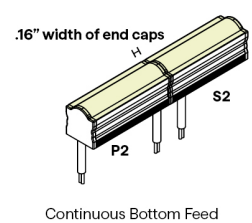
Continuous Side Feed - Left



Continuous Side Feed - Right



Continuous End to End Feed



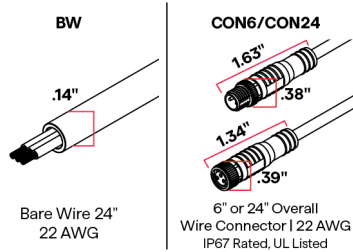


ESSENTIALS TORQ-OPTICS (02) TUNABLE APPLICATIONS

24VDC Linear Fixtures - Surface & Recessed

9 / 10 CONNECTOR/WIRE - IN/OUT

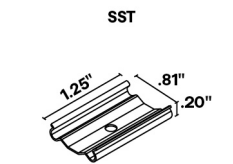
Connector/Wire In or Out not needed to specify product. Standard configuration is BW for Wire In and CLS for Wire out



11 WIRE COLOR



13 MOUNTING

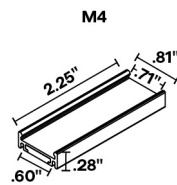


Stainless Steel Clip

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

To order separately use SST-01

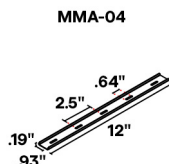
Each clip comes with a #4 x 5/8" Flat Head SS



Low Profile Magnet

One M4 provided per foot.

To order separately use MG-04

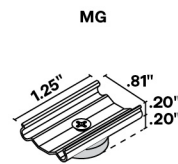


Magnet Mount
Accessory for M4

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

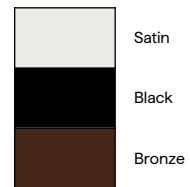


Magnet Clip

One MG provided per foot

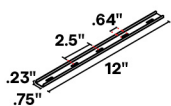
To order separately use MG-01

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

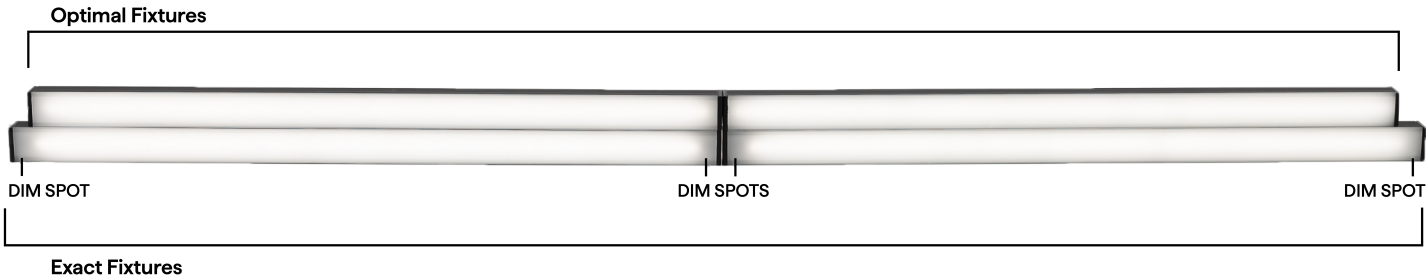


ESSENTIALS TORQ-OPTICS (02) TUNABLE APPLICATIONS

24VDC Linear Fixtures - Surface & Recessed

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.



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	
	S1 End Feed IN	S2 Bottom Feed IN	P1 End Feed IN	P2 Bottom Feed IN	S3 Side Feed - Left IN	S4 Side Feed - Right IN	P3 Side Feed - Left IN	P4 Side Feed - Right IN
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"



ESSENTIALS TORQ-OPTICS (02) TUNABLE APPLICATIONS

24VDC Linear Fixtures - Surface & Recessed


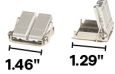






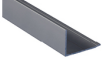

COMPATIBLE POWER SUPPLIES

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

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

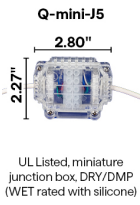
HINGE - HMB-M	HINGE - HMB-L	HINGE - HMB-XL	Q-PIVOT	Q-ANGLE	VHB	NU-GRAZER	NJ-GRAZER	BL-GRAZER	NJ-MEDIUM
									
Adjustable mounting bracket - Medium	Adjustable mounting bracket - Large	Adjustable mounting bracket - XLarge	Small mounting accessory	Adjustable mounting accessory	Double sided mounting tape	U Mounting Bracket	J Mounting Bracket	Backwards L Mounting Bracket	J Mounting Bracket



ESSENTIALS TORQ-OPTICS (02) TUNABLE APPLICATIONS

24VDC Linear Fixtures - Surface & Recessed

COMPATIBLE WIRING ACCESSORIES



CON120-EXT



10ft Con cable
extender
DRY/DMP/WET

COMPATIBLE CONTROL ACCESSORIES

SCENE APP DONGLE



Wi-Fi or Bluetooth
Connectivity