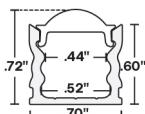




ESSENTIALS TORQ-OPTICS (02)

TUNABLE APPLICATIONS

24VDC Linear Fixtures - Surface & Recessed



white optics



NEC
410.3 and 410.18
Closet Rated in
1.5HE



JAB-2019
HE only

5 YEAR
WARRANTY

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 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
TQ2DW															

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

1 PRODUCT TQ2DW 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.	2 WATTS/FT 1.5HE 1.5W/ft HE 2.5HE 2.5W/ft HE 4.0HE 4.0W/ft HE 1.5HE 1.5W/ft HE 2.5HE 2.5W/ft HE	3 CCT 20/27 2000K/2700K 20/30 2000K/3000K 27/40 2700K/4000K 27/55 2700K/5500K 24/30 2400K/3000K 27/40 2700K/4000K	4 RATED DRY IP20 DMP IP54	5 EFFICIENCY STD Standard WO White Optics WhiteOptics - Internal coating, greater lumen output	6 LENS 12 Optical 12° 40 Optical 40° DRY or DMP only For representation of LED visibility, see Diode Visibility section on following pages. For beam angles, see Photometric Performance section on following pages	7 EXTERNAL LOUVER L1-WH White Plastic L1-BK Black Plastic N/A No Louver S3, S4, P3, P4 with the 40 Degree Lens are not available in Louver Louvers are shipped separately and require field assembly
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.	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	PW Bare Wire (Standard 24") CON6 Connector 6" CON24 Connector 24" Connector/Wire In not needed to specify product. Typical selection is PW.	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.				
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. 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.		

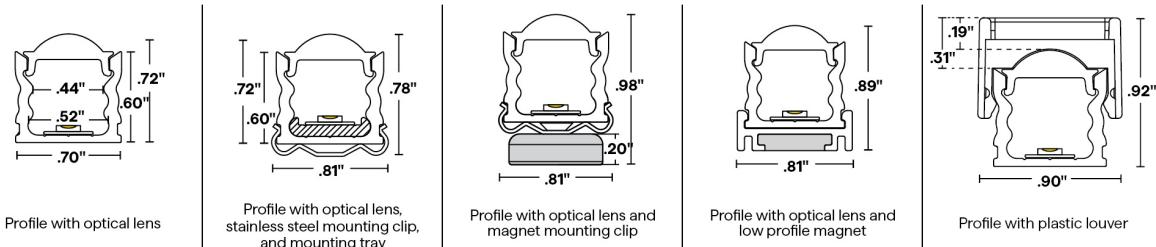
5 year warranty | Warranty only valid with QTL power supplies | Field modifications void warranty | Data subject to change, all data has +/- 5% tolerance



ESSENTIALS TORQ-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			

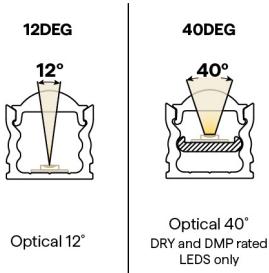
6 DIODE VISIBILITY



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	**	**	**	**

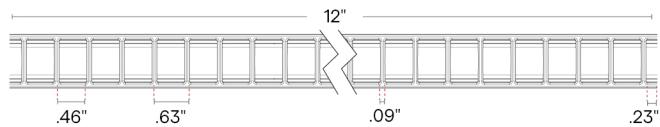


ESSENTIALS TORQ-OPTICS (02) TUNABLE APPLICATIONS

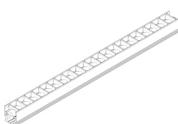
24VDC Linear Fixtures - Surface & Recessed

7 EXTERNAL LOUVER

PLASTIC



L1-XX

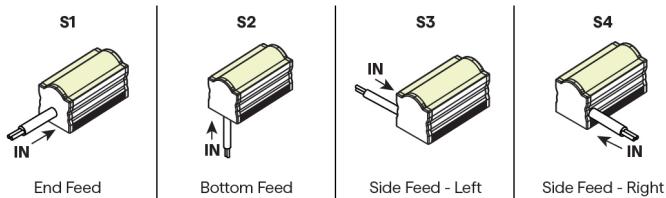


Lumen Multiplier
WH BK

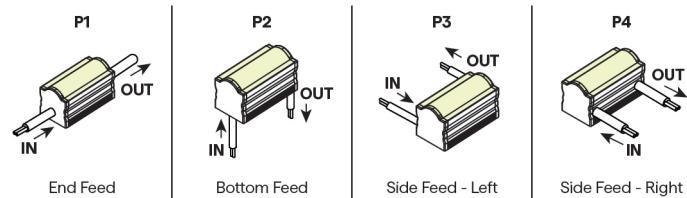
0.72 0.53

8 WIRE INPUT/OUTPUT

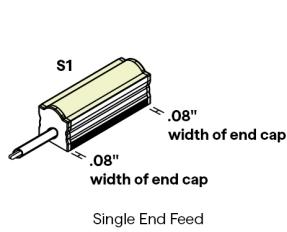
SINGLE (Input only)



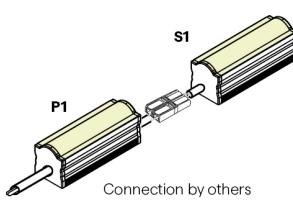
PASS THROUGH (Input/Output)



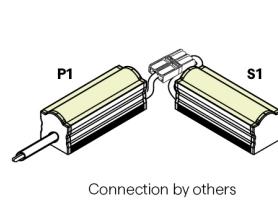
CONFIGURATION OPTIONS



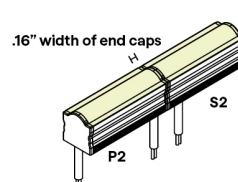
Single End Feed



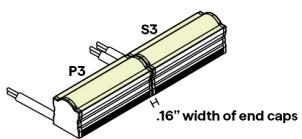
Connection by others
Non-Continuous End Feed



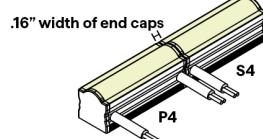
Connection by others
Non-Continuous Corner Feed



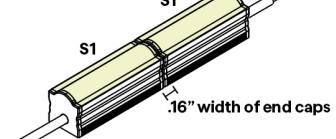
Continuous Bottom Feed



Continuous Side Feed - Left



Continuous Side Feed - Right



Continuous End to End Feed

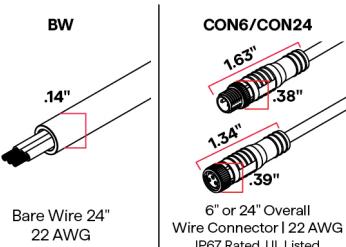


ESSENTIALS TORQ-OPTICS (02) TUNABLE APPLICATIONS

24VDC Linear Fixtures - Surface & Recessed

9 / 10 CONNECTOR/WIRE – IN/OUT

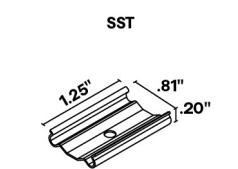
Connector/Wire In or Out not needed to specify product. Standard configuration is BW for Wire In and CLS for Wire out



11 WIRE COLOR



13 MOUNTING



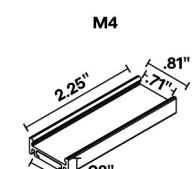
SST

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

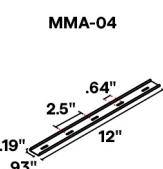


M4

Low Profile Magnet

One M4 provided per foot.

To order separately use MG-04



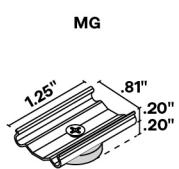
MMA-04

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



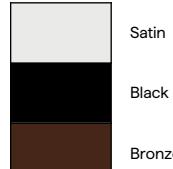
MG

Magnet Clip

One MG provided per foot

To order separately use MG-01

14 FINISH



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



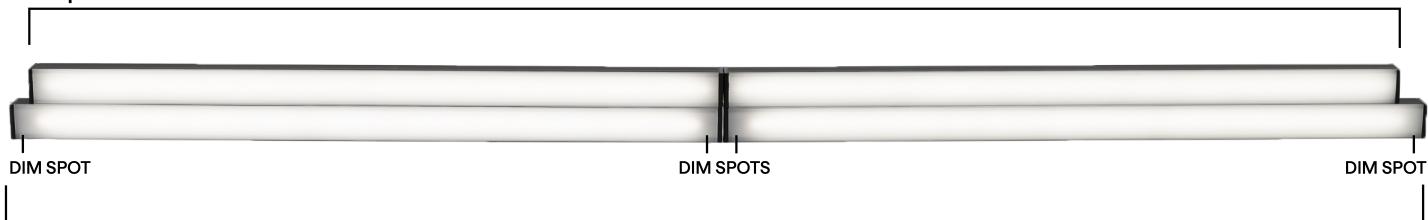
ESSENTIALS TORQ-OPTICS (02) TUNABLE APPLICATIONS

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.

Optimal Fixtures



Exact Fixtures

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 $\pm 0 - 1/8"$. 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"	



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 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	NU-GRAZER U Mounting Bracket	NJ-GRAZER J Mounting Bracket	BL-GRAZER Backwards L Mounting Bracket	NJ-MEDIUM J Mounting Bracket
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ESSENTIALS TORQ-OPTICS (02) TUNABLE APPLICATIONS

24VDC Linear Fixtures - Surface & Recessed

COMPATIBLE WIRING ACCESSORIES



COMPATIBLE CONTROL ACCESSORIES

SCENE APP DONGLE

