ESSENTIALS TORQ-OPTICS (02)
WD APPLICATIONS
24VDC Linear Fixtures - Surface & Recessed

White optics | c UL us LISTED | NEC 410.2 and 410.16 Closet Rated in 1.5HE | RoHS COMPLIANT | JA8-2019 HE only | 5 YEAR WARRANTY | Declare. | Red List Approved

- 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 to provide warmer CCTs as the light is dimmed
- When using DALI and DMX power supplies, LED wattage must be doubled

.72" .44" .60" .52" .70"

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: **TQ2WD-6.0-19/30-DRY-WO-12-P1-BW-BW-BK-CL2-SST-BK-48"-E**

① PRODUCT

TQ2WD
LED engine is built with 2 wires suitable for phase dimming control.
See following pages for compatible power supplies.

TQ2DW
LED engine is built with 3 wires requiring 0-10V, DMX or DALI control.
Using DALI, DMX, or non Q-Tran power supplies may double watts/ft. See following pages for compatible power supplies.

② WATTS/FT

6.0	6.0W/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

19/27	1900K/2700K
19/30	1900K/3000K

20/27	2000K/2700K
20/30	2000K/3000K
27/40	2700K/4000K
27/55	2700K/5500K

24/30	2400K/3000K

④ RATED

DRY	IP20

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

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

⑨ CONNECTOR/WIRE IN

BW	Bare Wire (Standard 24")
BRL	Barrel
CON6	Connector 6"
CON24	Connector 24"

BRL only available with TQ2WD
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")
BRL	Barrel
CON6	Connector 6"
CON24	Connector 24"

BRL only available with TQ2WD
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)

BW	Bare Wire (Standard 24")
BRL	Barrel
CON6	Connector 6"
CON24	Connector 24"

BRL only available with TQ2WD
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)

⑪ WIRE COLOR

WH	White
BK	Black
N/A	For Barrel

wet barrel only available in black

⑫ WIRE TYPE

CL2	Class 2
CL2P	Plenum Rated
N/A	For Barrel

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.

ESSENTIALS TORQ-OPTICS (02) WD APPLICATIONS
24VDC Linear Fixtures - Surface & Recessed

1 PRODUCT - DIMENSIONS

.44" .72" .60"
.52"
.70"

Profile with optical lens

.72" .78"
.60"
.81"
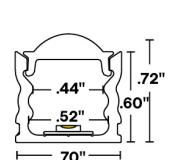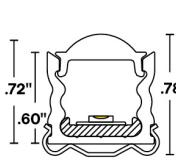
Profile with optical lens,
stainless steel mounting clip,
and mounting tray

.98"
.20"
.81"
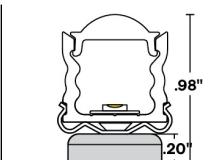
Profile with optical lens and
magnet mounting clip

.89"
.81"
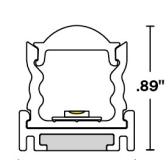
Profile with optical lens and
low profile magnet

.19" .92"
.31"
.90"
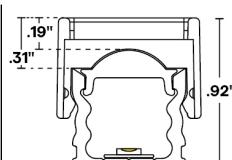
Profile with plastic louver

2 DELIVERED LUMENS

[Calculated L70 = 70000 hrs]
Tested with TQ2WD-6.0-30-DRY-STD

	3000K	
	LM/FT	CRI
12	382	97
40	489	97

[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 TQ2WD-6.0-30-DRY-WO

	3000K	
	LM/FT	CRI
12	395	97
40	495	97

[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.

12DEG

12°

Optical 12°

40DEG

40°

Optical 40°
DRY and DMP rated
LEDS only
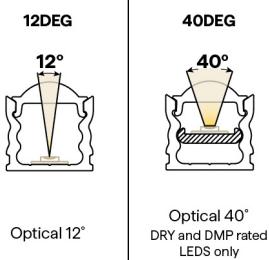
TEMPERATURE RATINGS

		WD 6.0 W/FT		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	Min	Max
DRY	Ambient Operating Temp - Surface	-4°F	120°F	-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

12"

.46"   .63"   .09"   .23"
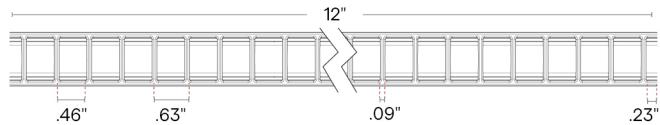
L1-XX
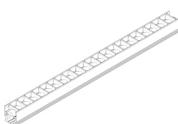
Lumen Multiplier

WH	BK
0.72	0.53

8 WIRE INPUT/OUTPUT

SINGLE (Input only)

S1	S2	S3	S4
IN	IN	IN	IN
End Feed	Bottom Feed	Side Feed - Left	Side Feed - Right
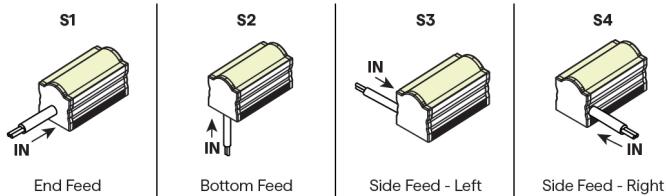
PASS THROUGH (Input/Output)

P1	P2	P3	P4
IN / OUT	IN / OUT	IN / OUT	IN / OUT
End Feed	Bottom Feed	Side Feed - Left	Side Feed - Right
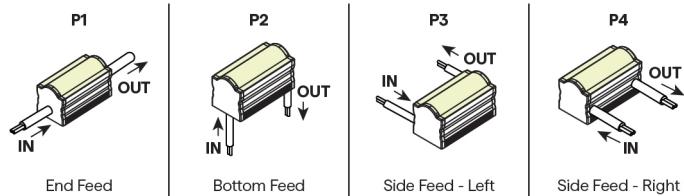
CONFIGURATION OPTIONS

S1
.08" width of end cap
.08" width of end cap
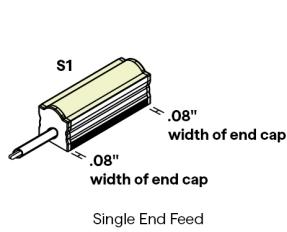
Single End Feed
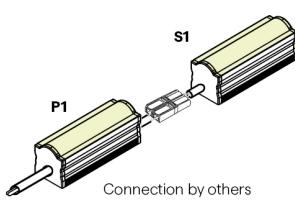
S1
P1
Connection by others
Non-Continuous End Feed
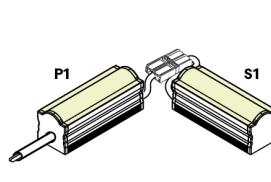
P1   S1
Connection by others
Non-Continuous Corner Feed

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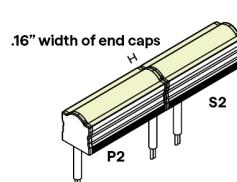
Continuous Bottom Feed

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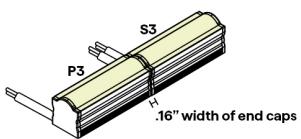
Continuous Side Feed - Left

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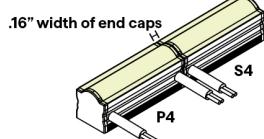
Continuous Side Feed - Right

S1
S1
.16" width of end caps
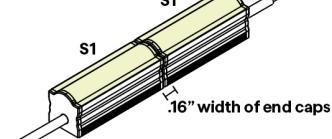
Continuous End to End Feed

Specification subject to change. Rev-03-03-25

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

BW For WD	**BW** For DW-HE	**BRL**	**BRL**	**CON6/CON24**
.15" Indoor .11" Outdoor	.14"	1.44" .42" / 1.74" .35"	1.36" .44" / 1.62" .66"	1.63" .38" / 1.34" .39"
Bare Wire 24" 22 AWG	Bare Wire 24" 22 AWG	Barrel 6" - DRY/DMP | 22 AWG	Barrel 6"- WET | 22 AWG	6" or 24" Overall Wire Connector | 22 AWG IP67 Rated, UL Listed

11 WIRE COLOR

White

Black
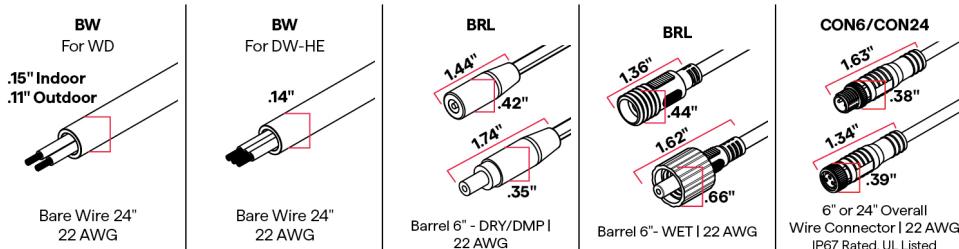
13 MOUNTING

SST	**M4**	**MMA-04**	**MG**
1.25" .81" .20"	2.25" .81" .71" .60" .28"	.64" 2.5" 12" .19" .93"	1.25" .81" .20" .20"
Stainless Steel Clip	Low Profile Magnet	Magnet Mount Accessory for M4	Magnet Clip
2 clips provided for 4' or less; 4 clips provided for greater than 4'	One M4 provided per foot.	Sold separately, to order use MMA-04	One MG provided per foot
To order separately use SST-01	To order separately use MG-04	Each bracket comes with 2 #6 x 5/8 Flat Head SS	To order separately use MG-01
Each clip comes with a #4 x 5/8" Flat Head SS		Required when mounting to a non-magnetic surface	

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

14 FINISH

Satin

Black

Bronze

Custom color available

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

DIM SPOT   DIM SPOTS   DIM SPOT
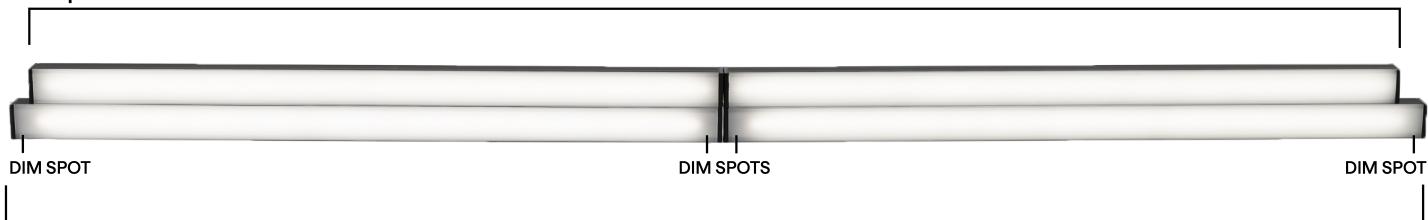
Exact Fixtures

WD, 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"

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

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 Warm Dim Applications	**WD**
0.1%	QT-CAB-eLED+WD QT-CAB-eLED+WD-AWN QTM-eLED+WD QTM-eLED+WD-AWN QZ-DW	QT-CAB-QZ-PH/0-10V QT-CAB-eLED+0-10V QTM-eLED+0-10V QZ-BOWTIE+DIMMER QZ-DMX QZ-PH/0-10V QZ-STICK-PH/0-10V QZLP
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	QT-CAB-eLED+DALI-DT6 QT-CAB-eLED+DALI-DT6-AWN QTM-eLED(E) QTM-eLED+DALI-DT6 QTM-eLED+DALI-DT6-AWN QZ-DALI-DT6
10%	Non-Dim Power Supply with WD App Dongle	Non-Dim Power Supply with SW App Dongle

| DIMMING PROTOCOL	INDOOR	
	DW-HE Warm Dim Applications	**WD**
Phase	QZ-DW	QT-CAB-QZ-PH/0-10V QTM-eLED(E) QZ-BOWTIE+DIMMER QZ-PH/0-10V QZ-STICK-PH/0-10V QZLP
0-10V	QT-CAB-eLED+WD QT-CAB-eLED+WD-AWN QTM-eLED+WD QTM-eLED+WD-AWN QZ-DW	QT-CAB-QZ-PH/0-10V QT-CAB-eLED+0-10V QTM-eLED+0-10V QZ-PH/0-10V QZ-STICK-PH/0-10V QZLP
Lutron Athena	QT-CAB-eLED+DALI-DT8-AWN QT-CAB-eLED+WD-AWN QTM-eLED+DALI-DT8-AWN QTM-eLED+WD-AWN	QT-CAB-eLED+DALI-DT6-AWN QTM-eLED+DALI-DT6-AWN
ECO System		QTM-eLED(E)
DMX If using DW LED, wattage must be doubled		QZ-DMX
DALI-2: DT6 If using DW LED, wattage must be doubled	QT-CAB-eLED+DALI-DT6 QTM-eLED+DALI-DT6	QT-CAB-eLED+DALI-DT6 QT-CAB-eLED+DALI-DT6-AWN QTM-eLED+DALI-DT6 QTM-eLED+DALI-DT6-AWN QZ-DALI-DT6
DALI-2: DT8 If using DW LED, wattage must be doubled	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 WD App Dongle	Non-Dim Power Supply with SW 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
1.41" .71"	1.46" 1.29"	4" 1.46"	.75" 1.03"	2.23" 1.38"					
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

COMPATIBLE WIRING ACCESSORIES

Q-mini-J5	BARREL-EXT	BARREL FOUR-FER	CON120-EXT	CON FOUR-FER	CON M - BARREL F
2.80" 2.27"					
UL Listed, miniature junction box, DRY/DMP (WET rated with silicone)	8ft barrel cable extender DRY ONLY	Splits lead from one to four LED Barrel connector fixtures, DRY/DMP	10ft Con cable extender DRY/DMP/WET	Splits lead from one to four LED Con connectors DRY/DMP/WET	Male con to barrel cable adaptor DRY/DMP

COMPATIBLE CONTROL ACCESSORIES

SCENE APP DONGLE

1.36"

2.58"

Wi-Fi or Bluetooth Connectivity