



# TORQ-FLAT (01) STATIC WHITE HIGH EFFICACY

24VDC Linear Fixtures - Surface & Recessed

white optics

cUL us  
LISTED

NEC  
410.2 and 410.18  
Closet Rated up to 4.0W/ft

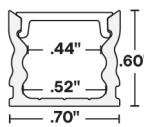
RoHS  
COMPLIANT

1-BIN  
1-STEP

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
- 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
- Can be suitable for exterior use when specified as wet, contact factory for more information

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
TQ1SW															

Sample Part Number: TQ1SW-3.0HE-30-DRY-WO-DF-P1-BW-BW-BK-CL2-SST-BK-48"-E

<b>1</b> <b>PRODUCT</b>  TQ1SW  See following pages for compatible power supplies.	<b>2</b> <b>WATTS/FT</b>  1.5HE 1.5W/ft HE 3.0HE 3.0W/ft HE 6.0HE 6.0W/ft HE 9.0HE 9.0W/ft HE  3.0HE+ 3.0W/ft HE+ 6.0HE+ 6.0W/ft HE+  1.5HE 1.5W/ft HE 3.0HE 3.0W/ft HE 6.0HE 6.0W/ft HE	<b>3</b> <b>CCT</b>  20 2000K 22 2200K 24 2400K 27 2700K 30 3000K 35 3500K 40 4000K  27 2700K 30 3000K 35 3500K 40 4000K  24 2400K 27 2700K 30 3000K 35 3500K 40 4000K	<b>4</b> <b>RATED</b>  DRY IP20  DMP IP54	<b>5</b> <b>EFFICIENCY</b>  STD Standard WO White Optics  WhiteOptics - Internal coating, greater lumen output	<b>6</b> <b>LENS</b>  DF Diffused PR Polar FR Frosted CL/60 Clear 60° CL/70 Clear 70°  For representation of LED visibility, see Diode Visibility section on following pages. For beam angles, see Photometric Performance section on following pages	<b>7</b> <b>EXTERNAL LOUVER</b>  L1-WH White Plastic L1-BK Black Plastic N/A No Louver  Louvers are shipped separately and require field assembly
<b>8</b> <b>WIRE INPUT/OUTPUT</b>  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	<b>9</b> <b>CONNECTOR/WIRE IN</b>  BW Bare Wire (Standard 24") BRL Barrel 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)	<b>10</b> <b>CONNECTOR/WIRE OUT</b>  CLS Closed End (No feed)	<b>11</b> <b>WIRE COLOR</b>  WH White BK Black N/A For Barrel  wet barrel only available in black			
<b>P1</b> Pass Through 1 (Input/output) - End Feed <b>P2</b> Pass Through 2 (Input/output) - Bottom Feed <b>P3</b> Pass Through 3 (Input/output) - Left Side Feed <b>P4</b> Pass Through 4 (Input/output) - Right Side Feed  For continuous mounting, consider bottom or side feed	<b>P1</b> Pass Through 1 (Input/output) - End Feed <b>P2</b> Pass Through 2 (Input/output) - Bottom Feed <b>P3</b> Pass Through 3 (Input/output) - Left Side Feed <b>P4</b> Pass Through 4 (Input/output) - Right Side Feed  For continuous mounting, consider bottom or side feed	<b>P1</b> Pass Through 1 (Input/output) - End Feed <b>P2</b> Pass Through 2 (Input/output) - Bottom Feed <b>P3</b> Pass Through 3 (Input/output) - Left Side Feed <b>P4</b> Pass Through 4 (Input/output) - Right Side Feed  For continuous mounting, consider bottom or side feed	<b>P1</b> Pass Through 1 (Input/output) - End Feed <b>P2</b> Pass Through 2 (Input/output) - Bottom Feed <b>P3</b> Pass Through 3 (Input/output) - Left Side Feed <b>P4</b> Pass Through 4 (Input/output) - Right Side Feed  For continuous mounting, consider bottom or side feed	<b>P1</b> Pass Through 1 (Input/output) - End Feed <b>P2</b> Pass Through 2 (Input/output) - Bottom Feed <b>P3</b> Pass Through 3 (Input/output) - Left Side Feed <b>P4</b> Pass Through 4 (Input/output) - Right Side Feed  For continuous mounting, consider bottom or side feed	<b>P1</b> Pass Through 1 (Input/output) - End Feed <b>P2</b> Pass Through 2 (Input/output) - Bottom Feed <b>P3</b> Pass Through 3 (Input/output) - Left Side Feed <b>P4</b> Pass Through 4 (Input/output) - Right Side Feed  For continuous mounting, consider bottom or side feed	<b>P1</b> Pass Through 1 (Input/output) - End Feed <b>P2</b> Pass Through 2 (Input/output) - Bottom Feed <b>P3</b> Pass Through 3 (Input/output) - Left Side Feed <b>P4</b> Pass Through 4 (Input/output) - Right Side Feed  For continuous mounting, consider bottom or side feed
<b>12</b> <b>WIRE TYPE</b>  CL2 Class 2 CL2P Plenum Rated N/A For Barrel  CL2P only available with bare wire leads (BW)	<b>13</b> <b>MOUNTING</b>  SST Stainless Steel M4 Low Profile Magnet MG Magnet	<b>14</b> <b>FINISH</b>  ST Satin BK Black BZ Bronze	<b>15</b> <b>LENGTH (IN)</b>  Fixture length min 12", max 98.43" not including end caps. Consult factory for lengths under 12"	<b>16</b> <b>EXACT/OPTIMAL</b>  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.		

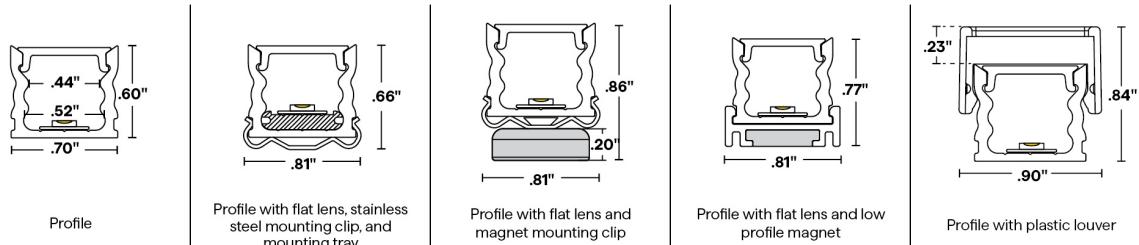
5 year warranty | Warranty only valid with QTL power supplies | Field modifications void warranty | Data subject to change, all data has +/- 5% tolerance



# TORQ-FLAT (01) STATIC WHITE HIGH EFFICACY

24VDC Linear Fixtures - Surface & Recessed

## 1 PRODUCT - DIMENSIONS



## 2 DELIVERED LUMENS

[Calculated L70 = 70000 hrs, L70 = 50000 for HE+]

Tested with TQ1SW-\*\*-30-DRY-STD

	1.5HE W/FT	3.0HE W/FT	3.0HE+ W/FT	6.0HE W/FT	6.0HE+ W/FT	9.0HE W/FT					
	LM/FT	CRI	LM/FT	CRI	LM/FT	CRI	LM/FT	CRI	LM/FT	CRI	LM/FT
60	156	98	286	98	413	92	542	98	763	92	815
70	158	98	290	98	418	92	549	98	773	92	825
FR	153	98	281	98	405	92	532	98	749	92	800
PR	138	98	252	98	364	92	478	98	673	92	719
DF	124	98	228	98	329	92	432	98	608	92	649

[Calculated L70 = 70000 hrs, L70 = 50000 for HE+]

Tested with TQ1SW-\*\*-30-DRY-WO

	1.5HE W/FT	3.0HE W/FT	3.0HE+ W/FT	6.0HE W/FT	6.0HE+ W/FT	9.0HE W/FT					
	LM/FT	CRI	LM/FT	CRI	LM/FT	CRI	LM/FT	CRI	LM/FT	CRI	LM/FT
60	171	98	314	98	453	92	596	98	838	92	895
70	179	98	328	98	473	92	621	98	874	92	934
FR	168	98	308	98	444	92	584	98	821	92	877
PR	152	98	279	98	402	92	528	98	743	92	793
DF	135	98	247	98	357	92	469	98	660	92	705

## 6 DIODE VISIBILITY

## PHOTOMETRIC PERFORMANCE



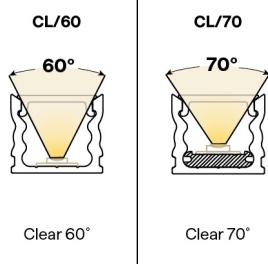
DF - Diffused lens

PR - Polar lens

FR - Frosted lens

CL - Clear lens

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



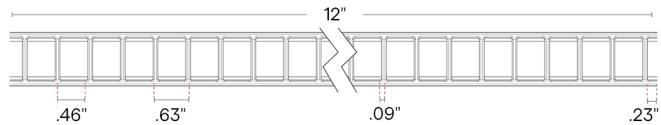


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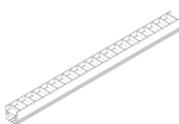
## 24VDC Linear Fixtures - Surface & Recessed

### 7 EXTERNAL LOUVER

#### PLASTIC



L1-XX

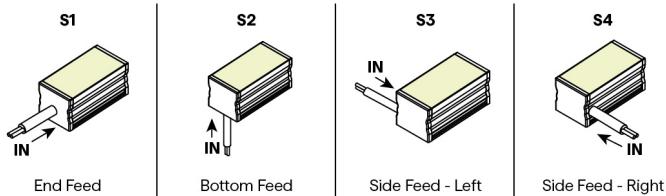


Lumen Multiplier  
WH BK

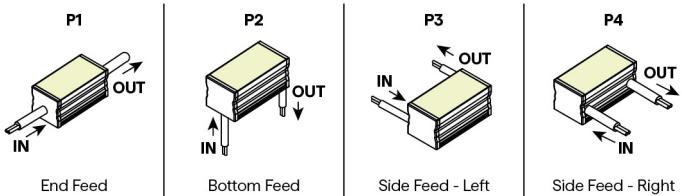
0.72 0.53

### 8 WIRE INPUT/OUTPUT

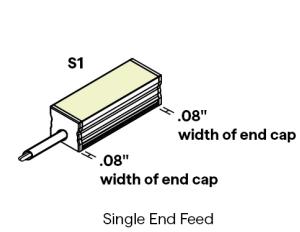
#### SINGLE (Input only)



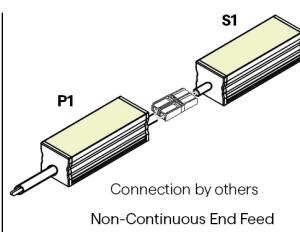
#### PASS THROUGH (Input/Output)



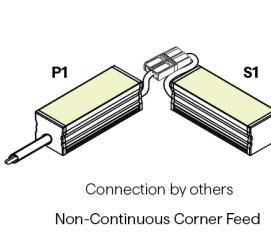
### CONFIGURATION OPTIONS



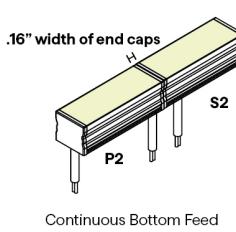
Single End Feed



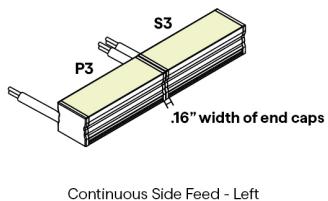
Connection by others  
Non-Continuous End Feed



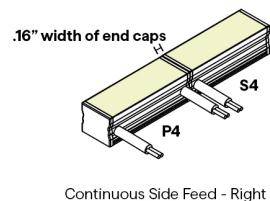
Connection by others  
Non-Continuous Corner Feed



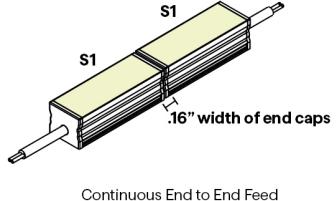
.16" width of end caps  
Continuous Bottom Feed



Continuous Side Feed - Left



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



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

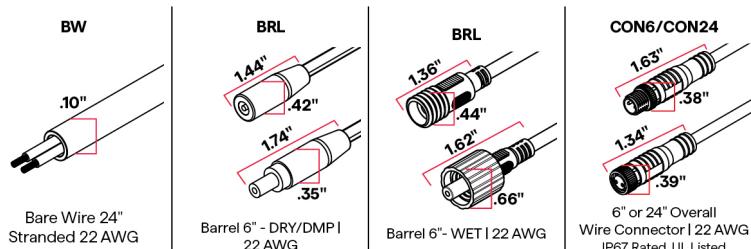


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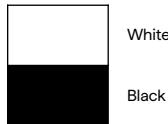
24VDC Linear Fixtures - Surface & Recessed

## 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	M4	MMA-04	MG
1.25", .81", .20" dimensions. 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	2.25", .71", .60", .28" dimensions. Low Profile Magnet One M4 provided per foot. To order separately use MG-04	.19", .93", .64", 12" dimensions. 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	1.25", .81", .20" dimensions. Magnet Clip One MG provided per foot To order separately use MG-01

### MMA-01

.23", .75", .64", 12" dimensions. 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
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## 14 FINISH





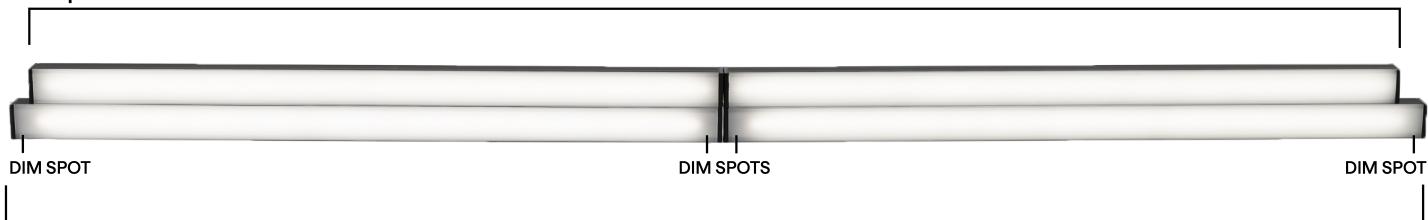
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24VDC Linear Fixtures - Surface & Recessed

## 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

## SW-HE, SW-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"	10.66"	10.26"	10.36"			
13"	12.41"	12.66"	12.66"	12.26"	12.36"			
14"	12.41"	12.66"	12.66"	12.26"	12.36"			
15"	14.41"	14.66"	14.66"	14.26"	14.36"			
16"	14.41"	14.66"	14.66"	14.26"	14.36"			
17"	16.41"	16.66"	16.66"	16.26"	16.36"			
18"	16.41"	16.66"	16.66"	16.26"	16.36"			
19"	18.41"	18.66"	18.66"	18.26"	18.36"			
20"	18.41"	18.66"	18.66"	18.26"	18.36"			
21"	20.41"	20.66"	20.66"	20.26"	20.36"			
22"	20.41"	20.66"	20.66"	20.26"	20.36"			
23"	22.41"	22.66"	22.66"	22.26"	22.36"			
24"	22.41"	22.66"	22.66"	22.26"	22.36"			
36"	34.41"	34.66"	34.66"	34.26"	34.36"			
48"	46.41"	46.66"	46.66"	46.26"	46.36"			
60"	58.41"	58.66"	58.66"	58.26"	58.36"			
72"	70.41"	70.66"	70.66"	70.26"	70.36"			
84"	82.41"	82.66"	82.66"	82.26"	82.36"			
96"	94.41"	94.66"	94.66"	94.26"	94.36"			



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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	OUTDOOR
	SW24/5.0, SW-HE, SW-HE+	SW24/5.0, SW-HE, SW-HE+
Dim to Black	Q6M-DC+CAP QTM-DC+CAP iQ-PH iQ-PH+QD1	QOM-DC+CAP QOM-PH
0.1%	QT-CAB-QZ-PH/0-10V QT-CAB-eLED+0-10V QT-CAB-eLED+0-10V-AWN QTM-eLED+0-10V QTM-eLED+0-10V-AWN QZ-BOWTIE+DIMMER QZ-DMX QZ-PH/0-10V QZ-STICK-PH/0-10V QZLP	Q-SET-QZ-DMX Q-SET-QZ-PH/0-10V Q-SET-eLED+0-10V QOM-eLED+0-10V QZ-DMX QZ-PH/0-10V
1%	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	Q-SET+QZ-DALI-DT6 QOM-eLED+DALI-DT6 QOM-eLED+PS-DALI-DT6
10%	Non-Dim Power Supply with SW App Dongle	

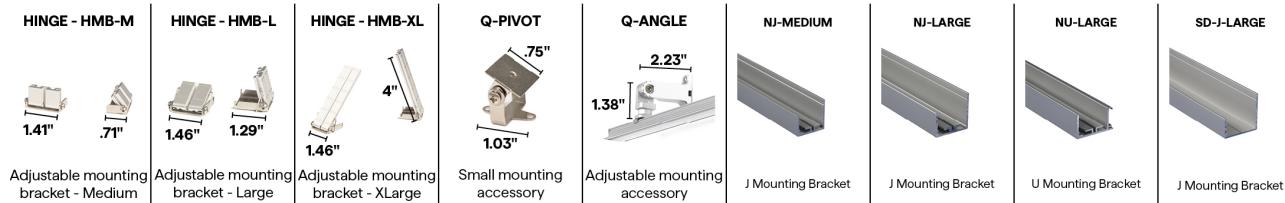


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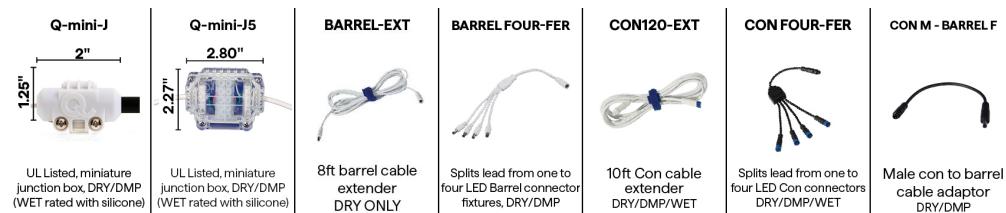
24VDC Linear Fixtures - Surface & Recessed

DIMMING PROTOCOL	INDOOR	OUTDOOR
	SW24/5.0, SW-HE, SW-HE+	SW24/5.0, SW-HE, SW-HE+
Non-Dim	QT-CAB-eLED-ND QTM-eLED-ND QZ-ND	Q-SET-QZ-ND Q-SET-eLED-ND QOM-eLED-ND QZ-ND iQ-ND-50-65
Phase	Q6M-DC+CAP QT-CAB-QZ-PH/0-10V QTM-DC+CAP QTM-eLED(E) QZ-BOWTIE+DIMMER QZ-PH/0-10V QZ-STICK-PH/0-10V QZLP iQ-PH iQ-PH+QD1	Q-SET-QZ-PH/0-10V QOM-DC+CAP QOM-PH QZ-PH/0-10V
0-10V	QT-CAB-QZ-PH/0-10V QT-CAB-eLED+0-10V QT-CAB-eLED+0-10V-AWN QTM-eLED+0-10V QTM-eLED+0-10V-AWN QZ-PH/0-10V QZ-STICK-PH/0-10V QZLP	Q-SET-QZ-PH/0-10V Q-SET-eLED+0-10V QOM-eLED+0-10V QZ-PH/0-10V
Lutron Athena	QT-CAB-eLED+0-10V-AWN QT-CAB-eLED+DALI-DT6-AWN QTM-eLED+0-10V-AWN QTM-eLED+DALI-DT6-AWN	
ECO System	QTM-eLED(E)	
DMX	QZ-DMX	Q-SET-QZ-DMX QZ-DMX
DALI-2: DT6	QT-CAB-eLED+DALI-DT6 QT-CAB-eLED+DALI-DT6-AWN QTM-eLED+DALI-DT6 QTM-eLED+DALI-DT6-AWN QZ-DALI-DT6	Q-SET+QZ-DALI-DT6 QOM-eLED+DALI-DT6
SCENE App Dimmed	Non-Dim Power Supply with SW App Dongle	

## COMPATIBLE MOUNTING ACCESSORIES



## COMPATIBLE WIRING ACCESSORIES





## **TORQ-FLAT (01) STATIC WHITE HIGH EFFICACY**

24VDC Linear Fixtures - Surface & Recessed

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### **COMPATIBLE CONTROL ACCESSORIES**

#### **SCENE APP DONGLE**



Wi-Fi or Bluetooth  
Connectivity