

# DUO T-BAR



Project: \_\_\_\_\_

\_\_\_\_\_

Type: \_\_\_\_\_

\_\_\_\_\_

Notes: \_\_\_\_\_

\_\_\_\_\_



**Important Ordering Notes:**  
 For Armstrong Custom Tile Program - please see page 6&7 and coordinate with EC/GC



**DUO T-Bar**, recessed fixture. Designed with architectural appeal, high efficacy levels, perfected beam performance and easy installation. The DUO T-Bar recessed fixture simplifies installation with a light weight design using a 6" emitting area and shallow depth for easy integration onto an existing T-Bar grid system.

5 Year Warranty  
 Patent - U.S. Patent No. 10,808,896

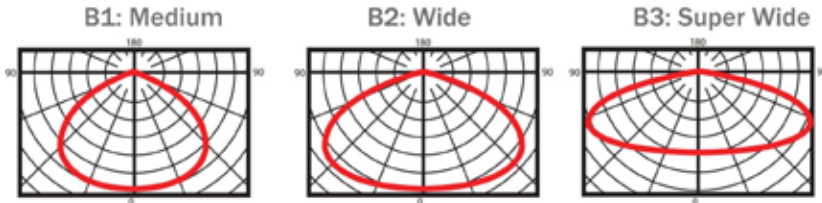
## Ordering Guide

DUOT1		CEILING TYPE		LENGTH		LUMENS/FT		BEAM	
<b>ARON ID</b>		<b>FF</b>	Flat 9/16" & 15/16" Tbars	<b>2FA</b>	23.75"	<b>500</b>	500 lm/ft	<b>B1</b>	Medium
<b>DUOT1</b>	DUO TBar	<b>SS</b>	Dimensional 9/16" Tbars	<b>3FA</b>	35.75"	<b>750</b>	750 lm/ft	<b>B2</b>	Wide
		<b>DW</b>	Drywall - Trim	<b>4FA</b>	47.75"	<b>1000</b>	1000 lm/ft	<b>B3</b>	Super Wide
				<b>5FA</b>	59.75"	<b>1250</b>	1250 lm/ft		
				<b>6FA</b>	71.75"	<b>1500</b>	1500 lm/ft		
				<b>7FA</b>	83.75"	<b>1750</b>	1750 lm/ft		
				<b>8FA</b>	95.75"				
				<b>C</b>	Continuous Run: *1ft Increments				
				*Continuous Run - In-Grid Only		**Consult factory for custom lumen packages			

COLOR / CRI		UNV		DRIVER		ACCESSORIES		FINISH		RATINGS	
<b>30K8</b>	3000K - 80CRI	<b>UNV</b>	120-277V	<b>DM</b>	Factory 0-10V, Dim 1%	<b>E10W</b>	10W EM Battery	<b>W</b>	White	<b>CCEA</b>	Chicago Plenum Rated
<b>30K9</b>	3000K - 90CRI	<b>347</b>	347 V	<b>DALI</b>	Dali System	<b>AWNRR</b>	Athena Wireless Node RF Only	<b>BLK</b>	Black		
<b>35K8</b>	3500K - 80CRI			<b>DMX</b>	DMX System	<b>AWNS</b>	Athena Wireless Node with Sensors	<b>C</b>	Custom		
<b>35K9</b>	3500K - 90CRI			<b>SD</b>	Step Dimming						
<b>40K8</b>	4000K - 80CRI			<b>BT</b>	Bluetooth Control						
<b>40K9</b>	4000K - 90CRI			<b>LD2</b>	Lutron DALI-2						
<b>TW</b>	Tunable White			<b>LDE1</b>	Lutron EcoSystem (1% Dimming)						
				<b>PEQO</b>	Lutron EcoSystem (0.1% Dimming)						
**TW requires compatible driver systems: DALI,DMX,LT				**See Page 4 for Bluetooth Information. Consult Factory		**Integral battery with remote test button		**Contact factory for custom color			

\*\*Contact Factory For other EM Options



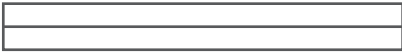

## Optical Performance



Lumens	Watts	Efficacy (lm/W)
2000	17.3	115.6
2500	22.0	113.3
3000	26.8	111.8
4000	32.4	123.4
5000	40.8	122.6
6000	49.1	122.1
8000	68.0	117.5
10000	84.3	118.6
12000	103.8	115.6

\*All values at 3500K

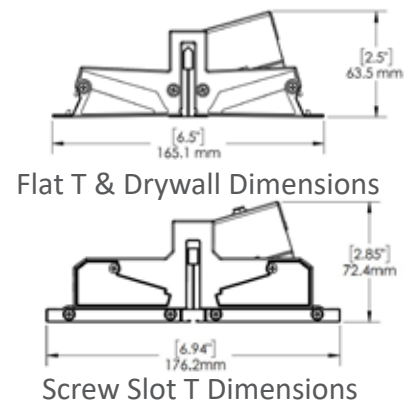
## Application Sizes

- 2FA  (23.75" - in Grid)  
(24.375" - in Drywall)
- 4FA  (47.75" - in Grid)  
(48.375" - in Drywall)
- 6FA  (71.75" - in Grid)  
(72.375" - in Drywall)
- 8FA  (95.75" - in Grid)  
(96.375" - in Drywall)

Continuous Run Available - Contact Factory

See Install Guide for Drywall Hole Cutout Size

## Dimensions



Integral EM Driver Dimensions

### Construction

- Extruded aluminum housing
- Injection molded ABS end caps
- Powder coated paint
- Galvanized sheet metal components
- Mate with 15/16, 9/16 and bolt slot TBars

### Optical

- Choice of 3 beam distributions
- Cast acrylic light guide
- Extruded volumetric diffuser
- Minimum 80 or 90 CRI
- 3000K, 3500K, 4000K
- ≤ 3 SDCM

### Electrical

- Integral high efficiency driver
- 0-10V dimming (1%) standard
- Class 2
- Optional battery pack
- Add-on sensor ready (consult factory on sensor technologies)

### Weight

- 2FA = 5.7 lbs
- 4FA = 9.6 lbs
- 6FA = 13.1 lbs
- 8FA = 18.8 lbs

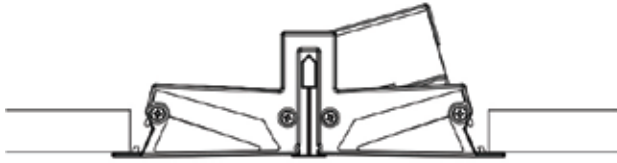
## Standard Mounting

2FA on 2x2 or 2x4 grid  
4FA on 2x4 grid (4' span)

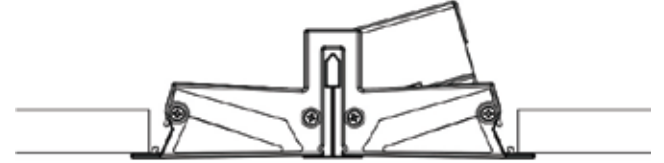
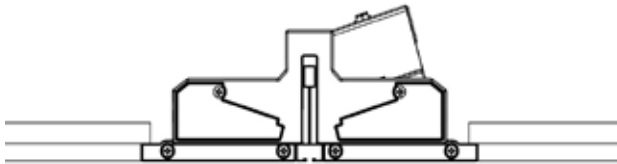
Contact your local Armstrong Representative for Made to Order Tiles

**\*Note for 6FA and 8FA Fixtures**

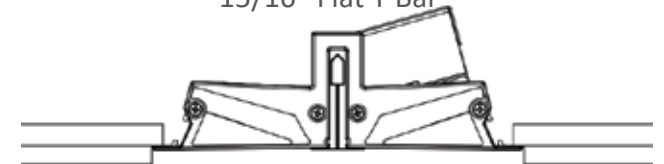
Coordinate lighting fixture installation with ceiling contractor, refer to install instructions for clarification



9/16" Screw Slot T-Bar



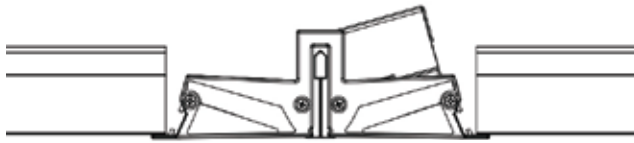
15/16" Flat T-Bar



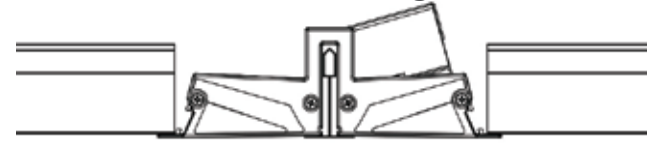
9/16" or 15/16" Flat T-Bar with Tegular Tiles

## Mounting With Intersecting Cross-T

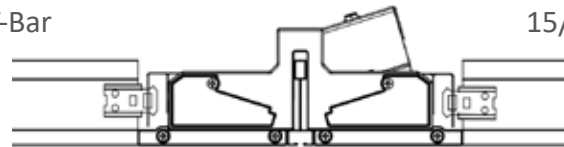
4FA, 6FA, 8FA on 2x2 grid  
4FA on 2x4 grid (2' span)  
6FA, 8FA on 2x4 grid



9/16" Flat Cross T-Bar



15/16" Flat Cross T-Bar



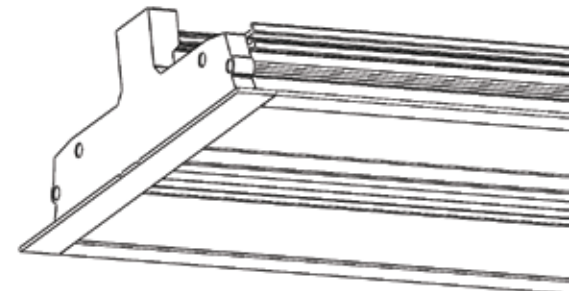
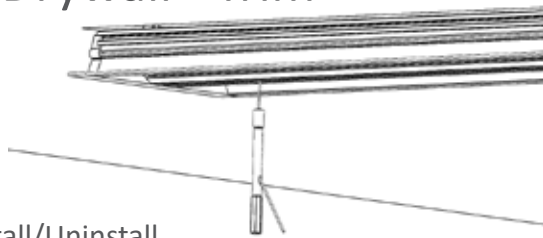
9/16" Screw Slot Cross T-Bar

\*Custom Cross-Ts also available through Armstrong for quicker and seamless installation.

## Mounting in Drywall - Trim



Simple Install/Uninstall with ARON Tools, provided with fixture

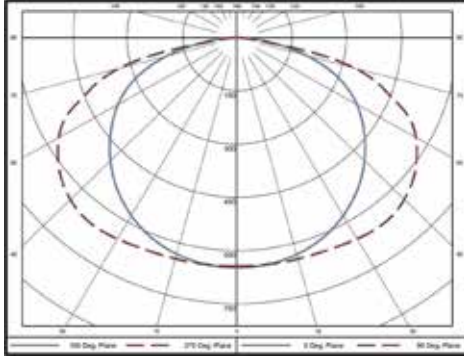


End Cap Flange to Match Flange of Fixture

Suspension Wire must be hung from Deck prior to Drywall Installation - Refer to Drywall Installation Guide for Necessary Hanging Instructions

Model Tested: DuoT1-2FA-2500-B2-3500K-80-UNV-DM

Photometric Curve



Candela Distribution

Vertical Angle	Horizontal Angles				
	0	22.5	45	67.5	90
0	644.5	644.5	644.5	644.5	644.5
5	646.6	643.9	643	643.9	645
15	632.4	631.6	636	642.2	645.6
25	601.8	605.3	621.6	640.5	649.5
35	554	564.7	602	642.4	658.9
45	491.8	512.6	571.6	624	644.4
55	418.3	445.8	514.3	576.2	597
65	330.6	358.4	432.6	493.7	510.6
75	198.6	222.5	264.1	308.1	333.2
85	48.7	49.5	27.9	26	25.9
90	0	0	0	0	0

Zonal Lumens

Zone	Lumens
0-10	61.60
10-20	180.88
20-30	289.24
30-40	382.14
40-50	447.83
50-60	474.82
60-70	445.03
70-80	280.17
80-90	50.12

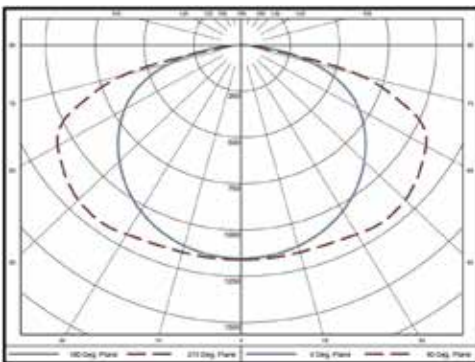
Luminance Data (cd/m<sup>2</sup>)

Vertical Angle	Horizontal Angles		
	0	45	90
45	8476	9852	11110
55	8887	10930	12580
65	9532	12480	14720
75	9350	12440	15690
85	6809	3906	3620

Length: 2ft  
 Lumens/ft: 1307  
 Total Lumens: 2614  
 Input Watts: 23.1 W  
 Efficacy: 113.3 lm/W

Model Tested: DuoT1-4FA-5000-B2-3500K-80-UNV-DM

Photometric Curve



Candela Distribution

Vertical Angle	Horizontal Angles				
	0	22.5	45	67.5	90
0	1157	1157	1157	1157	1157
5	1150	1152	1154	1158	1159
15	1124	1129	1140	1153	1159
25	1073	1083	1114	1150	1167
35	994	1015	1083	1161	1195
45	890	926	1041	1138	1182
55	767	817	955	1073	1124
65	616	668	809	953	1018
75	381	421	480	567	621
85	93	85	57	58	60
90	3	5	6	7	7

Zonal Lumens

Zone	Lumens
0-10	110
10-20	323
20-30	516.5
30-40	682.4
40-50	799.7
50-60	847.9
60-70	794.7
70-80	500.3
80-90	89.5

Luminance Data (cd/m<sup>2</sup>)

Vertical Angle	Horizontal Angles		
	0	45	90
45	8303	9714	11030
55	8815	10990	12920
65	9605	12620	15900
75	9702	12230	15820
85	7054	4306	4506

Length: 4ft  
 Lumens/ft: 1266  
 Total Lumens: 5064  
 Input Watts: 41.3 W  
 Efficacy: 122.6 lm/W

## LED System / Light Engine

- CRI: Minimum 80 or 90 CRI
- CCT: Offered in 2700K, 3000K, 3500K, 4000K \*within 3.0-step MacAdam Elipse
- LED Life/ TM-21 Projection: Minimum of 52,600h @ 85°C ambient temperature -  
L70 & L80 > 102,000  
\*In Compliance with IES LM-80 testing measurements
- Performance: Up to 121 lm/W.

## Bluetooth Technology



With our BubblyNet OEM partnership, realize the power of bluetooth lighting control! Offering wall controlers, integrated fixture sensors, tunable white/ rgbw contol. Contact Factory for More Information



## PoE Technology



Our Partnerships with Igor and NuLEDs offer PoE Integration using low voltage cat 5, cat 6 cabling. Contact Factory For more Information.

## FASTSIZE Tile Ordering Guide

FASTSIZE tiles made-to-order through your Armstrong rep

Coordinate with EC and GC for ordering tiles

1 Ctn Min  
**FASTSIZE**  
3 Weeks from  
order to ship

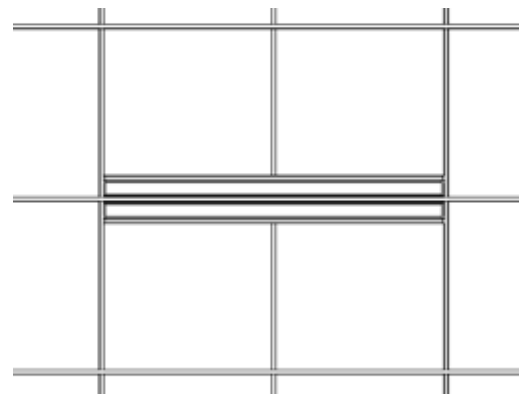
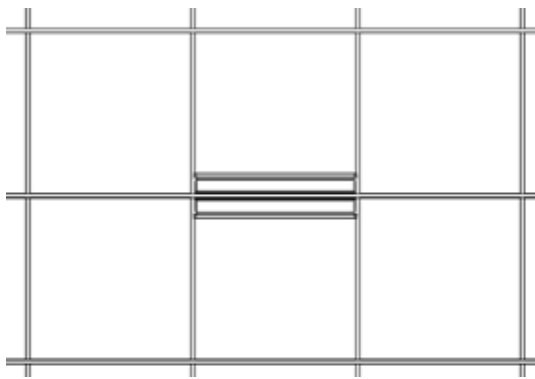
The sizes you need...factory finished...one carton minimums...shipped fast!

### SIZE FLEXIBILITY

- ✓ 4"-48" long and 4"-120" wide for panels
- ✓ 36"-144" for main beams
- ✓ 6"-144" for cross tees

### FAST LEAD TIMES

- ✓ 3 weeks for panels
- ✓ 2 weeks for suspension systems
- ✓ 24 hours for quotes
- ✓ 24 hours for ship date confirmations



24"x24" DUO Tiles

Armstrong Tile Style	Tile Lay	Armstrong Tile Number	ARON Fixture	ARON Precut Tile Number
Ultima/ Ultima High NRC	Square	1940	DUO	1940-D
Ultima/ Ultima High NRC	Tegular	1941	DUO	1941-D
Lyra PB	Square	8372PB	DUO	8372PB-D
Optima PB	Tegular	3354	DUO	3354-D
Optima PB	Square	3352	DUO	3352-D
Calla	Tegular	2824	DUO	2824-D

GC Coordination with EC and Armstrong Rep for ordering custom tiles

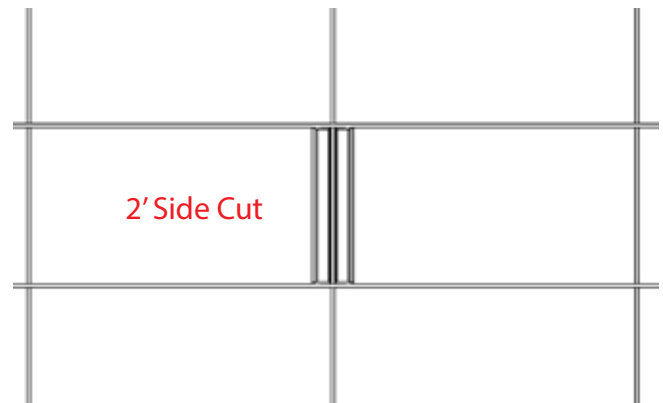
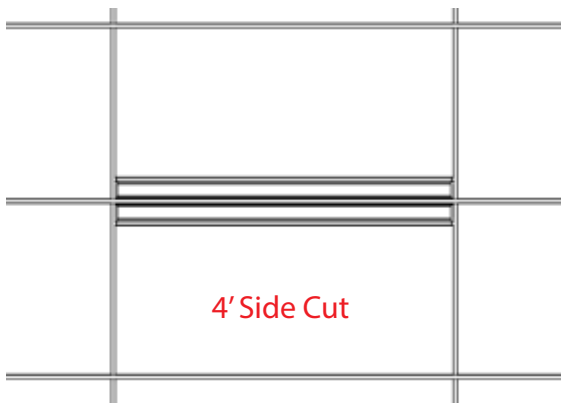
Save on Install Time and Hassle -for any questions please contact [rob.aronchick@aronlighting.com](mailto:rob.aronchick@aronlighting.com)

## Custom Tile Ordering Guide

Custom tiles made-to-order through your Armstrong rep

Coordinate with EC and GC for ordering tiles

### 24"x48" DUO Tiles



Armstrong Tile Style	Tile Lay	Armstrong Tile Number	ARON Fixture	Con figuration	ARON Precut Tile Number
Ultima/ Ultima High NRC	Square	1943	DUO	2' Side	1943-D-2
Ultima/ Ultima High NRC	Tegular	1944	DUO	2' Side	1944-D-2
Ultima/ Ultima High NRC	Square	1943	DUO	4' Side	1943-D-4
Ultima/ Ultima High NRC	Tegular	1944	DUO	4' Side	1944-D-4
Lyra PB	Square	8373PB	DUO	2' Side	8373PB-D-2
Lyra PB	Tegular	8373PB	DUO	4' Side	8363PB-D-4
Optima PB	Square	3353	DUO	2' Side	3353-D-2
Optima PB	Tegular	3252	DUO	2' Side	3252-D-2
Optima PB	Square	3353	DUO	4' Side	3353-D-4
Optima PB	Tegular	3252	DUO	4' Side	3252-D-4
Calla	Tegular	2825	DUO	2' Side	2825-D-2
Calla	Tegular	2825	DUO	4' Side	2825-D-4

GC Coordination with EC and Armstrong Rep for ordering custom tiles

Save on Install Time and Hassle -for any questions please contact [rob.aronchick@aronlighting.com](mailto:rob.aronchick@aronlighting.com)