

DUO T-BAR



Ordering Guide

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

Project: _____

 Type: _____

 Notes: _____

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

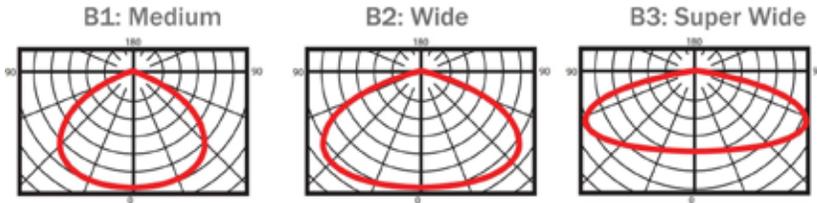
DUOT1		CEILING TYPE		LENGTH		LUMENS/FT		BEAM	
ARON ID		FF	Flat 9/16" & 15/16" Tbars	2FA	23.75"	500	500 lm/ft	B1	Medium
DUOT1	DUO TBar	SS	Dimensional 9/16" Tbars	3FA	35.75"	750	750 lm/ft	B2	Wide
		DW	Drywall - Trim	4FA	47.75"	1000	1000 lm/ft	B3	Super Wide
				5FA	59.75"	1250	1250 lm/ft	B4	Flat Lens
				6FA	71.75"	1500	1500 lm/ft		
				7FA	83.75"	1750	1750 lm/ft		
				8FA	95.75"				
				C	Continuous Run: *1ft Increments				
				*Continuous Run - In-Grid Only		**Consult factory for custom lumen packages			

COLOR / CRI		UNV		DRIVER		ACCESSORIES		FINISH		RATINGS	
30K8	3000K - 80CRI	UNV	120-277V	DM	Factory 0-10V, Dim 1%	E10W	10W EM Battery	W	White	CCEA	Chicago Plenum Rated
30K9	3000K - 90CRI	347	347 V	DALI	Dali System	AWNRR	Athena Wireless Node RF Only	BLK	Black		
35K8	3500K - 80CRI			DMX	DMX System	AWNS	Athena Wireless Node with Sensors	C	Custom		
35K9	3500K - 90CRI			SD	Step Dimming						
40K8	4000K - 80CRI			BT	Bluetooth Control						
40K9	4000K - 90CRI			LD2	Lutron DALI-2						
TW	Tunable White			LDE1	Lutron EcoSystem (1% Dimming)						
				PEQ0	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

ARON Lighting reserves the right to make any design changes for continuous improvement which will not affect the overall appearance, performance or pricing.

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

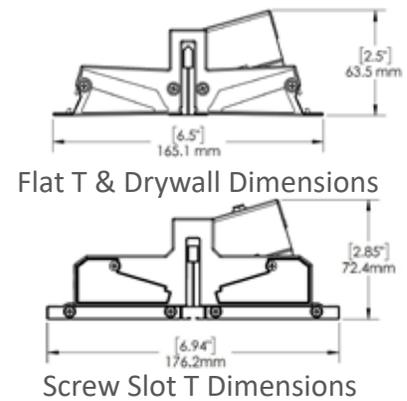
Application Sizes

- 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

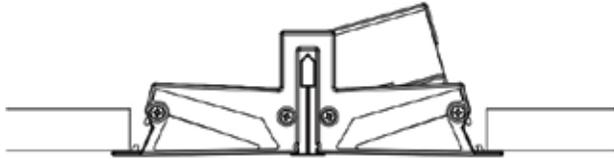
Standard Mounting

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

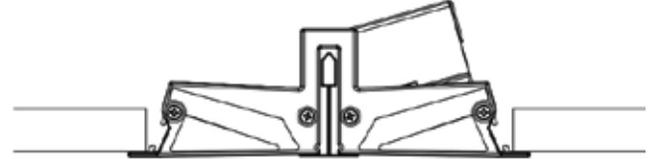
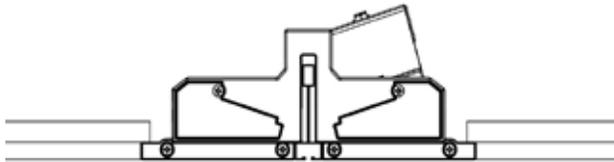
Contact your local Armstrong Representative for Made to Order Tiles

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

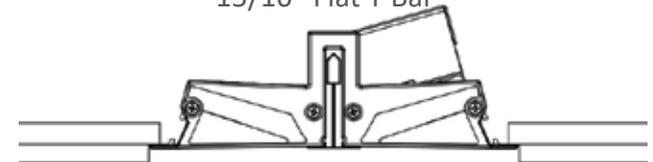
Coordinate lighting fixture installation with ceiling contractor, refer to install instructions for clarification



9/16" Screw Slot T-Bar



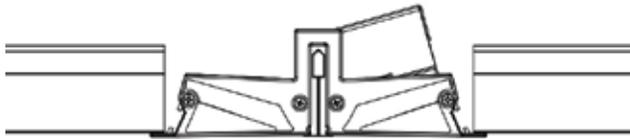
15/16" Flat T-Bar



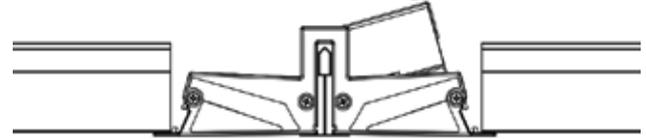
9/16" or 15/16" Flat T-Bar with Tegular Tiles

Mounting With Intersecting Cross-T

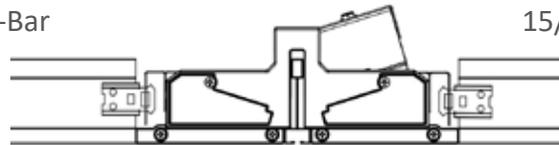
4FA, 6FA, 8FA on 2x2 grid
4FA on 2x4 grid (2' span)
6FA, 8FA on 2x4 grid



9/16" Flat Cross T-Bar



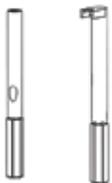
15/16" Flat Cross T-Bar



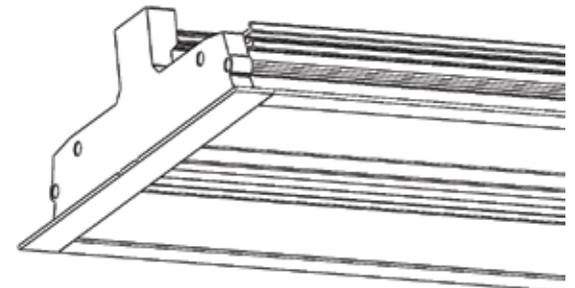
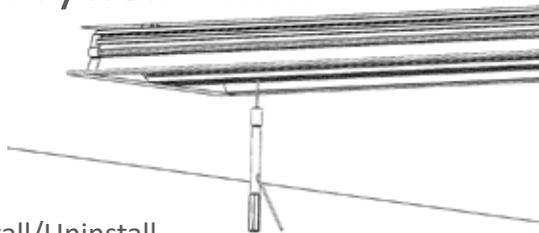
9/16" Screw Slot Cross T-Bar

***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

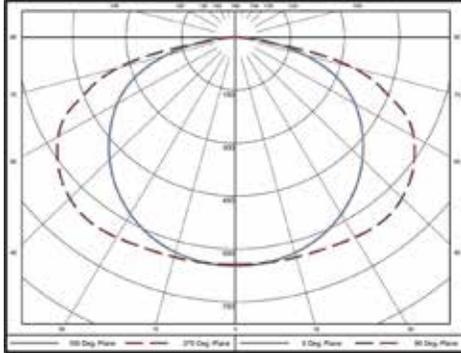


End Cap Flange to Match Flange of Fixture

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

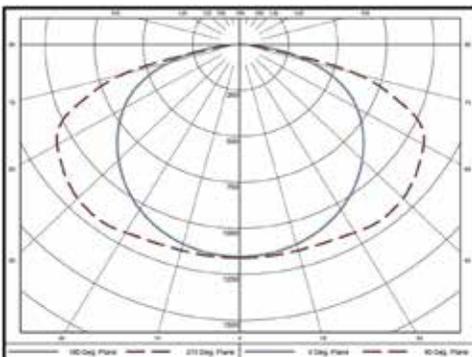
Luminance Data (cd/m²)

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/m²)

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 controls, integrated fixture sensors, tunable white/ rgbw control. 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

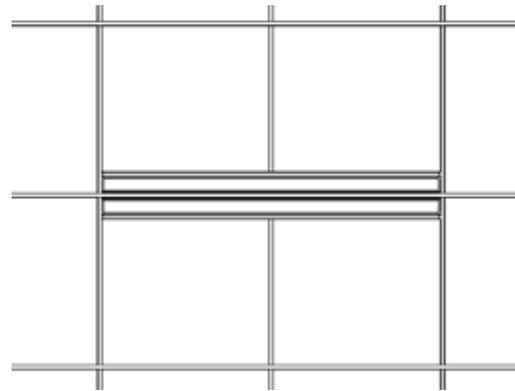
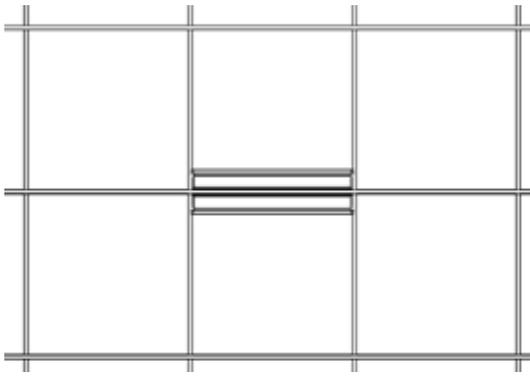
The sizes you need...factory finished...one carton minimums...shipped fast!

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

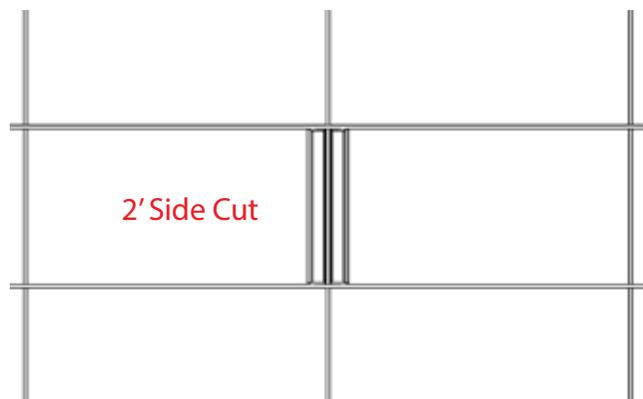
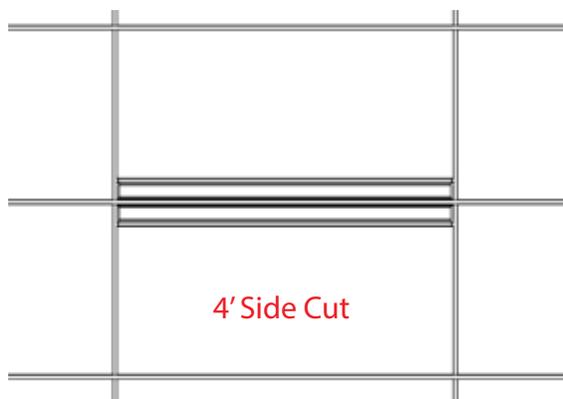
Save on Install Time and Hassle -for any questions please contact rob.aronchick@aronlighting.com

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