

tic-tACT™ FIXTURES

Have some fun with a suspended ceiling. Smooth, low profile bars of light that attach to common ACT ceiling grids at ANY angle. Standard lengths with straight or angled ends for easy creation of X, L, T, and rectangle patterns. Available in 3.5" width. The housings align together providing a shadow and dot free lens.

BENEFITS

- Allows perfect alignment above architectural features and furnishings.
- No dark corners, intersections or pattern interruptions since units are based on the true $\frac{1}{2}$ " to $\frac{1}{2}$ " sizes.
- Easy installation, relocation and replacement. Units clip to T-bar, and ceiling grid system does not have to be disassembled for installation.
- Custom patterns, on grid or off grid mounting with luminous, pleasant on the eyes optic.

CEILING APPLICATIONS



TT35-4S-HO359-R10-9T



Integrates with Armstrong® DESIGNFlex™ Shapes

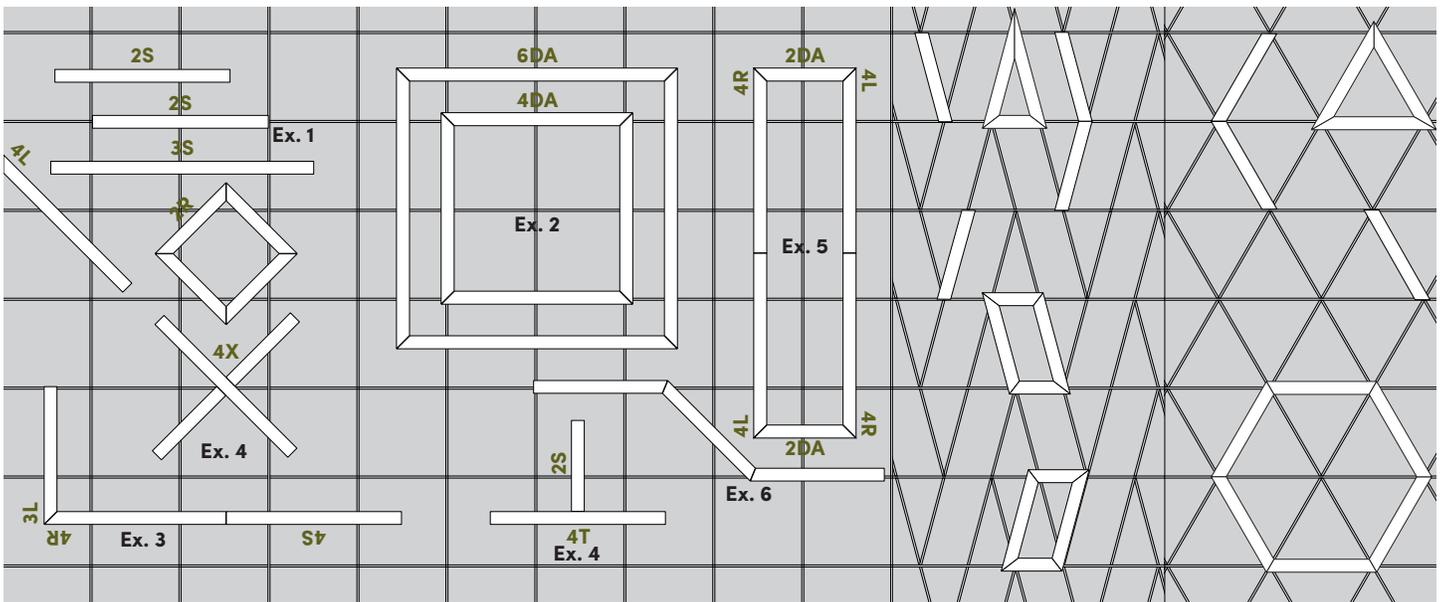


Thin 1" fixture depth, centerline dimensions

tic-tACT™ INSTALLATION EXAMPLES

Example Cat numbers. Standard lengths allow alignment into simple patterns. Angled ends- Single ends on R, L, Both ends on DA, DR, DL- allow basic building blocks to create squares, rectangles and zig zags. Can be used as singles to create sloping off grid patterns.

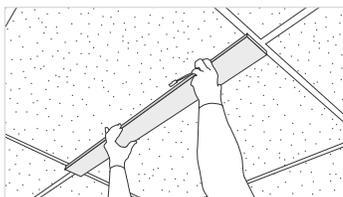
1. Straight lines, run on, along or across the ceiling grid. Series 4S shown.
2. Squares, ordered as RECF 4x4 and RECF 6x6, and receive qty (4) Series 4DA and 6DA shown.
3. L's and longer lines, Abut Series lengths together for longer run. 3L, 4R, 4S shown.
4. Intersections, X and T's, Series 4X shown and 4T, 2S shown.
5. Larger Rectangles - ordered as RECF 2x8, and receive qty of (2) 2DA, 4L and 4R as shown.
6. Send sketch/RCP to get the breakout of series required.



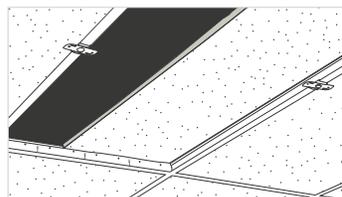
Armstrong® DESIGNFlex™ patterns. (see page 2)

ADDITIONAL NOTES

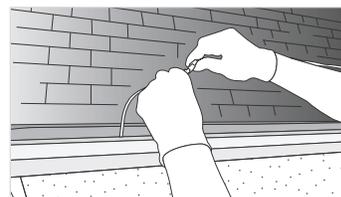
- Not all options for patterns are shown. Use downloadable CAD files (dxf) of standard shapes to create your own pattern. LINK to come.



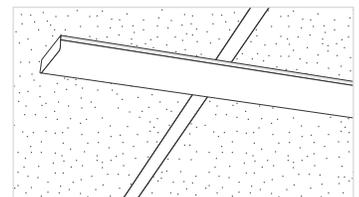
Layout pattern on or off grid.



Remove tiles, install grid clips.



Twist and lock clips onto fixtures. Run class 2 cable to remote power supply.



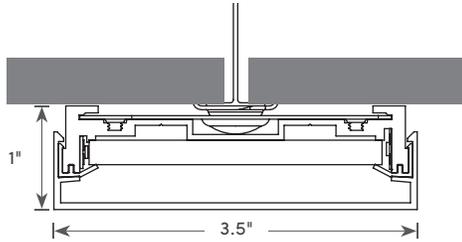
Notch tile for wire feed and install/replace ceiling tiles.



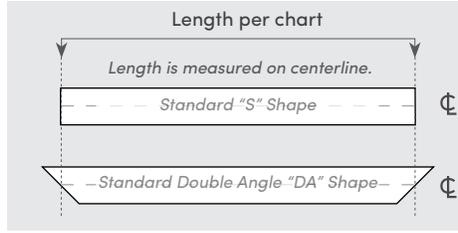
Scan to watch an installation video of the tic-tACT™ LED.



CROSS SECTION DIAGRAM



FIXTURE LENGTH



ORDERING NOTES

- **QS** Quick Ship (10 days)
- **QS** Shapes: 4S, 4R, 4L, 2DA, 5DA & 6DA
- **QS** Color Temps: 80CC30, 80CC35

ORDERING

Order Example: TT35-75RP24B-80CC35-PoEMolex-9F

PRODUCT SERIES

OUTPUT & COLOR

DRIVER

CEILING GRID TYPE

TT35	Ex: 2DA is 2' Double Angles. See chart for diagrams.	Ex: 80CC35	Ex: PoEMolex	
TT35 Lens 3.5" width	DADO STANDARD 2: S, R, L, DA 2.5: S, R, L, DA 3: S, R, L, DA 4: S, R, L, X, T, DA, DL, DR 5: S, R, L, DA 6: S, R, L, DA, DL, DR <i>Standard Angle ends are 45° add xx for other angles. xx ranges 45° through 90°</i>	<i>Constant Current LEDs</i> ___CC up to 8.0w/ft (26.3W/M), 80CC= 8.0W/ft (xx lms/ft @35K) <i>Color</i> 27 2700K 90+ CRI 30 3000K 90+ CRI 35 3500K 90+ CRI 40 4000K 90+ CRI TW XX/XX Tunable White <i>Select any combination of 2500K, 2700K, 3000K, 3500K, 4000K, 5000K for upper and lower limits.</i>	R Remote <i>All POE supplied by others</i> PoExx (unknown) ___ Igor (NP60) ___ Molex (CoreSync) ___ Wtec (Smart Engine) CL2Pxx Longer length CLP2 supply cable (Std 10') to reach Remote/PoE driver	SM* Surface Mounted 9F 9/16" Flush Grid 9T 9/16" Tegular Grid 9iXL 9/16" Interlude XL 15F 15/16" Flush Grid 15T 5/16" Tegular SP Special Grid <i>*SM (surface mounted) only for 4' and under straightlines. No patterns allowed.</i>
24" & 48" ARMSTRONG® DESIGNFLEX™ 75RP24B 75LP24B 75T24B 75RP48B 75LP48B 75T48B 75SR48B 75SL48B 75C48B 60RP24B 60LP24B 60T24B 60RT24B 60H24B 60RP48B 60LP48B 60T48B 60RT48B 60H48B 60SR48B 60SL48B 60C24B 60C48B 45RP24B 45LP24B 45T24B 45RT24B 45RP48B 45LP48B 45T48B 45RT48B 45SR48B 45SL48B 45C24B 45C48B	75° Right Parallelogram, 24" Base 75° Left Parallelogram, 24" Base 75° Triangle, 24" Base 75° Right Parallelogram, 48" Base 75° Left Parallelogram, 48" Base 75° Triangle, 48" Base 75° Slant Right, 48" Base 75° Slant Left, 48" Base 75° Chevron, 48" Base 60° Right Parallelogram, 24" Base 60° Left Parallelogram, 24" Base 60° Triangle, 24" Base 60° Right Triangle - Right, 24" Base 60° Hex, 24" Base 60° Right Parallelogram, 48" Base 60° Left Parallelogram, 48" Base 60° Triangle, 48" Base 60° Right Triangle - Right, 48" Base 60° Hex, 48" Base 60° Slant Right, 48" Base 60° Slant Left, 48" Base 60° Chevron, 24" Base 60° Chevron, 48" Base 45° Right Parallelogram, 24" Base 45° Left Parallelogram, 24" Base 45° Triangle, 24" Base 45° Right Triangle, 24" Base 45° Right Parallelogram, 48" Base 45° Left Parallelogram, 48" Base 45° Triangle, 48" Base 45° Right Triangle, 48" Base 45° Slant Right, 48" Base 45° Slant Left, 48" Base 45° Chevron, 24" Base 45° Chevron, 48" Base	48" DADO STANDARD Straight Sided "S" Left Angle Sided "L" Double Angle Left "DL"	 Double Angle Sided "DA" Right Angle Sided "R" Double Angle Right "DR"	24" & 48" ARMSTRONG® DESIGNFLEX™ 45° RP 45° LP 60° H 60° Chevron 45° & 75° available 60° T 90° T 75° LP 75° RP 75° T 75° SR 75° SL 45° & 60° available

90° GRID PATTERNS

- PATxx** Custom Pattern, submit sketch
- RECF (LxW)** Rectangle Flat, in 2' increments (RECF 4'x8')

NOTES

- Patterns are viewed from RCP position.

POWER SUPPLY ENCLOSURES

- Remote mounted Power Supply Enclosures (PSE) contain up to (3) 24vdc Constant Voltage (CV) or Constant Current (CC) Drivers for simple Class 2 installations.
- Class 2P cable comes attached to the fixture, to be routed to the remote PSE.
- CC Drivers are programmed at the factory. For specific lumen output and system wattage to fit your project needs, contact your dado representative or the Factory.
- For TT35, unless otherwise specified, one driver for each housing segment will be provided. Add MultiSegment (MS) ordering option to optimize drivers and have multiple segments controlled by one driver. This reduces the amount of PSE the electrician must install. Higher lumen outputs and long segments may increase the number of drivers.
- May be surface mounted, recessed in 2"x4" walls, located above accessible ceilings, or clipped to Grid Structure.

- Standard PSE is die formed 16ga CRS with white painted after fabrication finish.
- PSE A & C enclosures are die formed 16ga aluminum, natural finish. C includes caddy clips for T-bar mounting.
- Rated for Damp location, Non-IC installations. Consult factory for IC installations.
- All drivers are short circuit and overload protected.
- Listed for 90C conductors with 1/2" trade size knock outs.
- All drivers Class A sound rated.
- All drivers are 120V thru 277V, 50/60Hz except for LUT-LTE which is 120V only. Other world voltages available, consult factory for lead time.
- Dado Lighting ships a wide variety of 3rd party drivers, including Meanwell, ERG, Xitanium, GRE, LTF, ELDO and Lutron. Consult factory for additional drivers for specific project needs.

POWER SUPPLY OPTIONS

Sample Catalog Number: R-X-DALI-X-[blank]

DRIVER	QTY	CONTROL TYPE	WATTAGE	PSE STYLE*	DIMMING LEVEL	LINKS
R	X (factory determined)		X (factory determined)	X (factory determined) leave blank for Std		Wiring Diagrams & additional info
R (Remote)	X		X	X		
	(1, 2)	D010-xxmA	(100)	(Std, A, C)	1.0%	Link
	(1, 2)	DALI	(100)	(Std)	0.1%	Link
	(1, 2)	TW	(100)	(Std)	1.0%	Link
	(1, 2)	LUT-LDE	(40)	(Std, A, C)	1.0%	Link
	(1, 2)	LUT-TW	(50)	(Std, A, C)	0.1%	Link
	(1, 2)	ELDO-TW	(100, MC)	(Std, C)	0.1%	Link
	(1, 2)	ELDO-DALI	(100, MC)	(Std, C)	0.1%	Link
	(1, 2)	ELDO010	(100, MC)	(Std, C)	0.1%	Link

*leave blank for Std or enter a PSC letter.

DRIVER NOTES

PoE No Power Supply needed with PoE, as injectors are supplied by others.

D010-xxmA Dimming Electronic drivers -Input 120V thru 277V, 50/60Hz. 0-10v Dimming or on/off switching, Constant Current version to dim to 1% without flicker. xxMa determined by factory to achieve the specified W/ft. Up to 100W for class 2 applications.

Dali Digital Addressable Lighting Interface, DALI 2 protocol. Single channel, Linear dimming 100%-0% 1Khz PWM dimming, 255 levels. 97% efficiency, Input 120V thru 277V, 50/60Hz, auto recovery mode.

TW Tunable White Module. (2)Ch 0-10Vdc controllers (by others) for independent Color temperature and brightness control. Can also be used for warm dim with color temperature selection of 2200K-3000K. Input 120V thru 277V, 50/60Hz

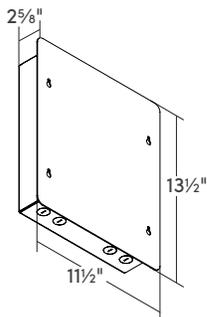
LUT-LDE Lutron Hi-Lume Dims to 1% SOFTB with EcoSystem. Input 120V thru 277V, 50/60Hz. Available wattage 40W.

LUT-TW Lutron Tunable White T series (PSQ), Dims to 0.1% with T series Node. (2) Channels. Input 120V thru 277V, 50/60Hz. Available wattage 50W.

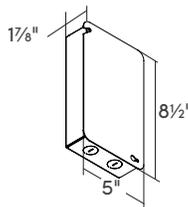
ELDO-TW Eldo Dual Drive with Lightshape technology Dims to 0.1%. (2) Channel DALI-2. For Intensity and color temperature control. Input 120V thru 277V, 50/60Hz. Available wattage 100W. Consult factory for 0-10V option.

ELDO-DALI Eldo Drive Dims to Dark to 0.1%. DALI-2. Input 120V thru 277V, 50/60Hz. Available wattage up to 100W. Consult factory for DMX option. Consult factory for Multiple Control (MC) option of fixtures from one driver, reducing PSE based on selected lumen output.

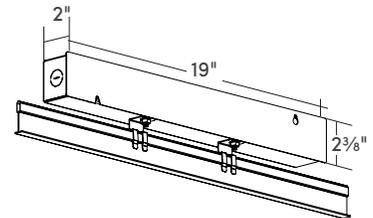
ELDO010 Eldo Drive Dims to Dark to 0.1%. DALI-2. (1) channel control. Input 120V thru 277V, 50/60Hz. Available wattage up to 100W. Consult factory for Multiple Control (MC) option of fixtures from one driver, reducing PSE based on selected lumen output.



Standard (Blank)

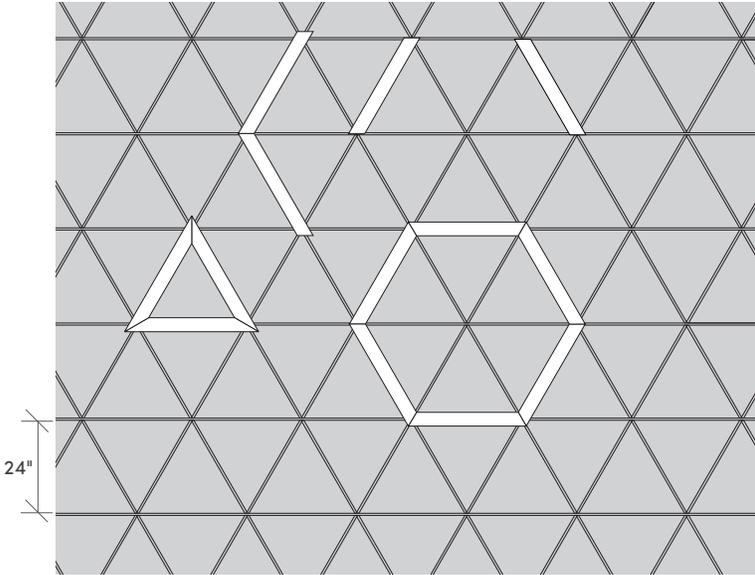


Power Supply Enclosure Style A

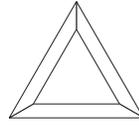


Power Supply Enclosure Style C

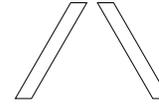
tic-tACT™ FIXTURES FOR 24" ARMSTRONG® DESIGNFLEX™ CEILINGS
DESIGNFlex™ comes in predefined patterns.



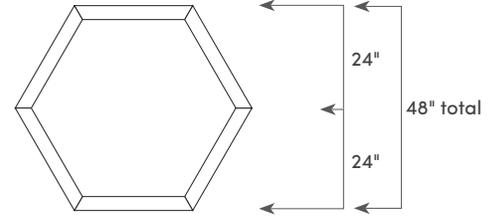
ARMSTRONG® DESIGNFLEX™ 24" CEILINGS; 60° PATTERN
DESIGNFlex™ 24", 60° patterns allows for Triangles and Hexagons.



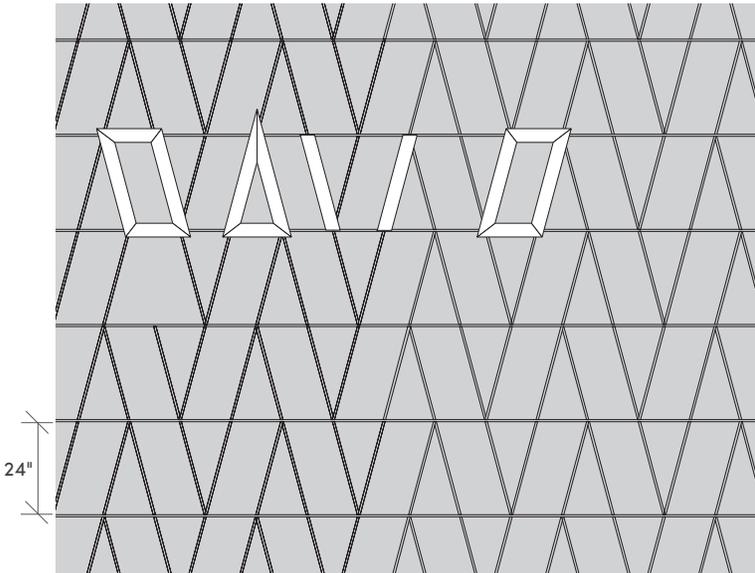
60T24B
60° Triangle, 24" Base
70 W, 3623 lms @ 35k



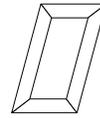
60DL24B | 60DR24B
60° DL or DR, 24" Base
19 W, 977.5 lms @ 35k



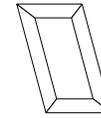
60H24B
60° Hex, 24" Base
126 W, 6555 lms @ 35k



ARMSTRONG® DESIGNFLEX™ 24" CEILINGS; 75° PATTERN
DESIGNFlex™ 24", 75° patterns allows for Triangles and Parallelograms. Stock shape Parallelograms are available in Right and Left angles.



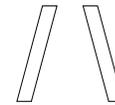
75RP24B
75° Right Parallelogram, 24" Base
62 W, 3220 lms @ 35k



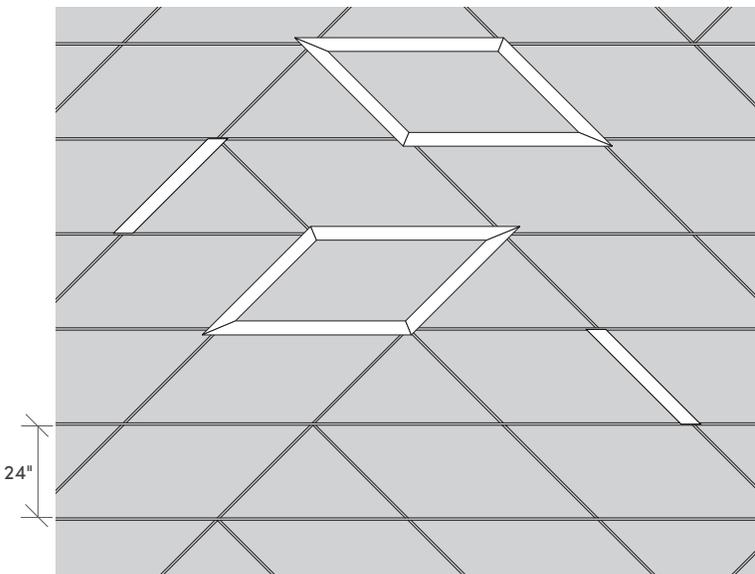
75LP24B
75° Left Parallelogram, 24" Base
62 W, 3220 lms @ 35k



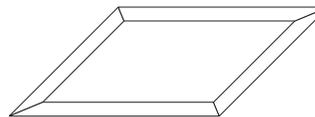
75T24B
75° Triangle, 24" Base
58 W, 2990 lms @ 35k



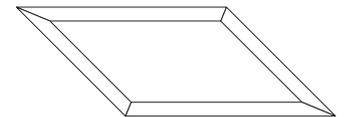
75SR24B | 75SL24B
75° SR or SL, 24" Base
19 W, 977.5 lms @ 35k



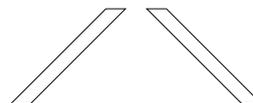
ARMSTRONG® DESIGNFLEX™ 24" CEILINGS; 45° PATTERN
DESIGNFlex™ 24", 45° patterns allows for Parallelograms shapes. Stock shape Parallelograms are available in Right and Left angles to match the Armstrong® DESIGNFlex™ ceiling pattern.



45RP24B
45° Right Parallelogram, 24" Base
132 W, 6900 lms @ 35k



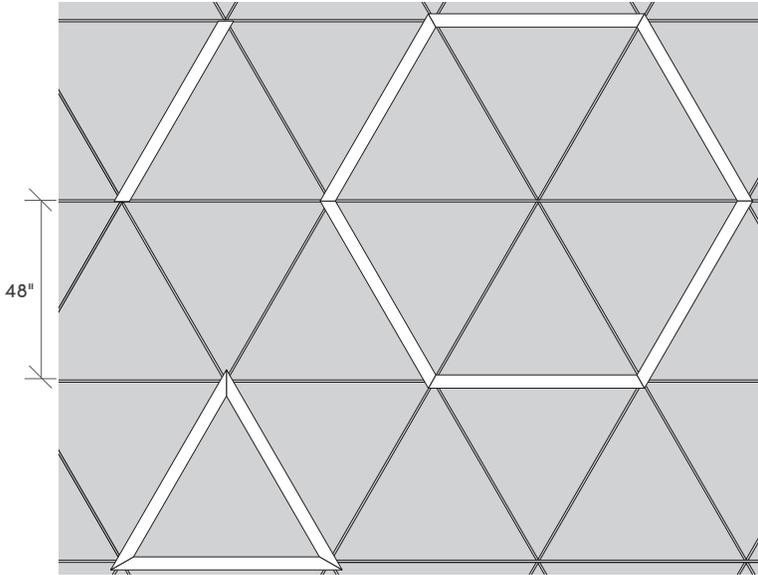
45LP24B
45° Left Parallelogram, 24" Base
132 W, 6900 lms @ 35k



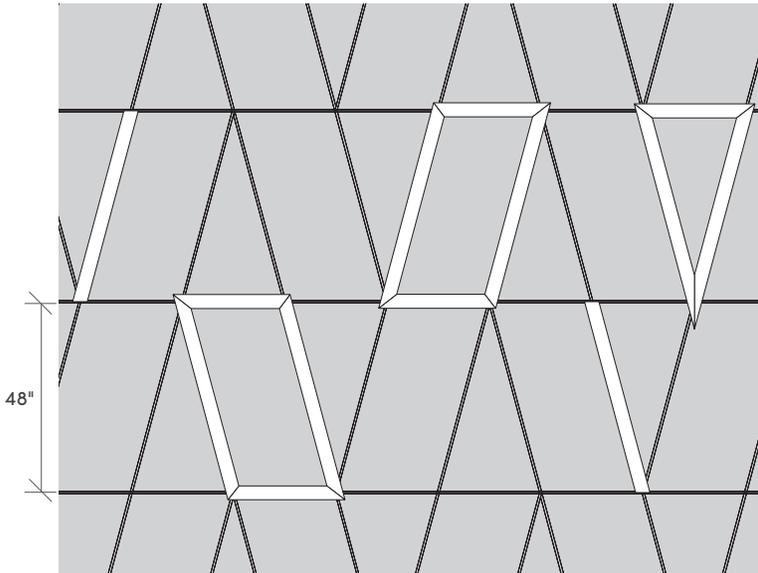
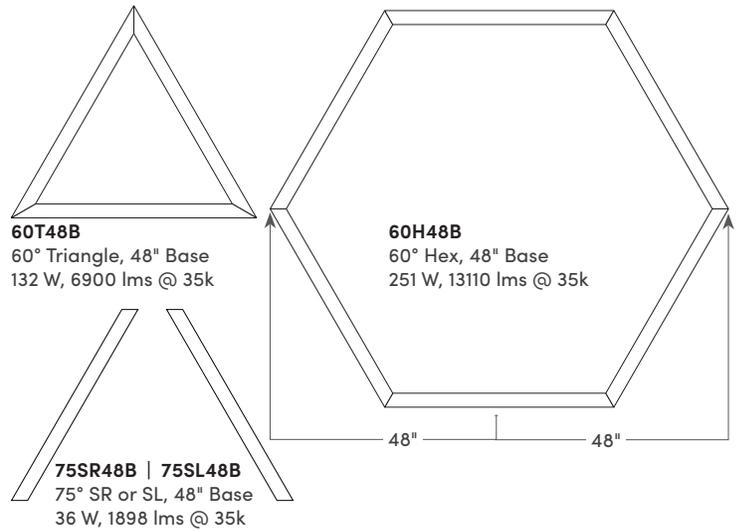
45SR24B | 45SL24B
45° SR or SL, 24" Base
19 W, 977.5 lms @ 35k

*Consult with factory for straight lines.

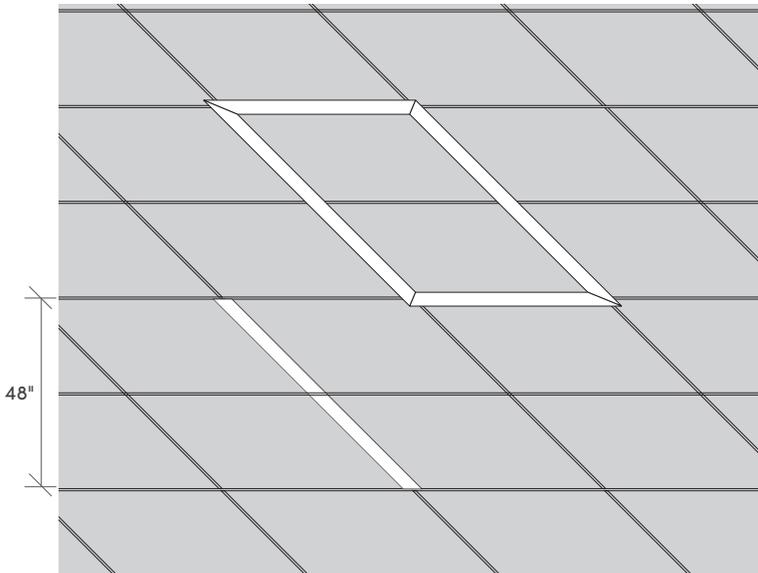
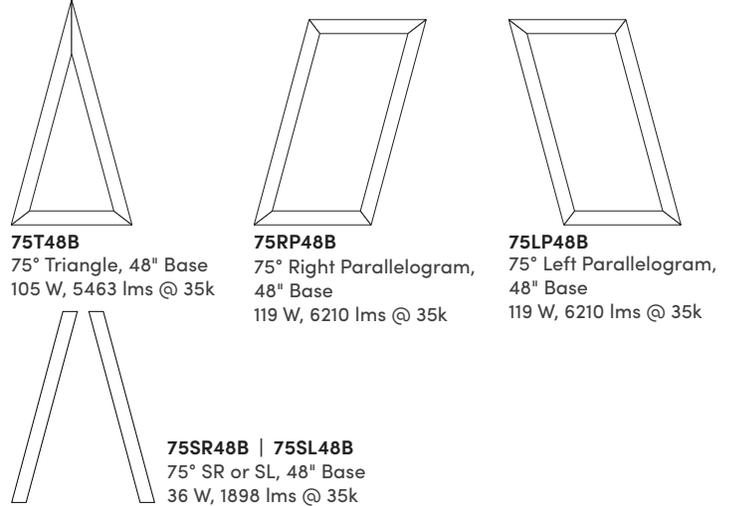
tic-tACT™ FIXTURES FOR 48" ARMSTRONG® DESIGNFLEX™ CEILINGS
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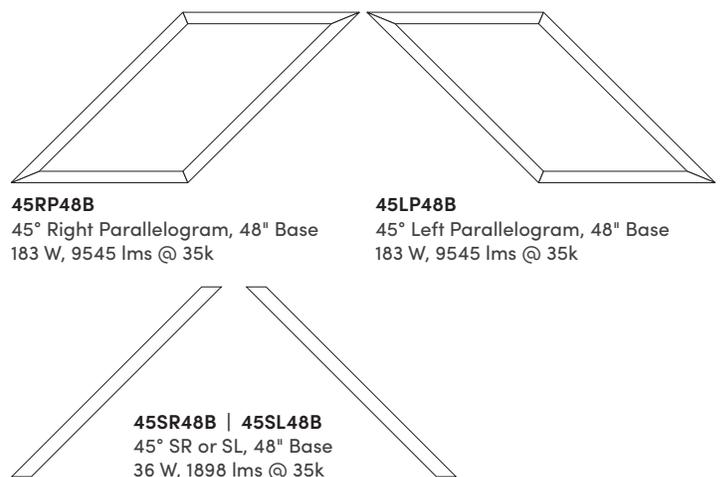
ARMSTRONG® DESIGNFLEX™ 48" CEILINGS; 60° PATTERN
DESIGNFlex 48", 60° patterns allows for Triangles and Hexagons.



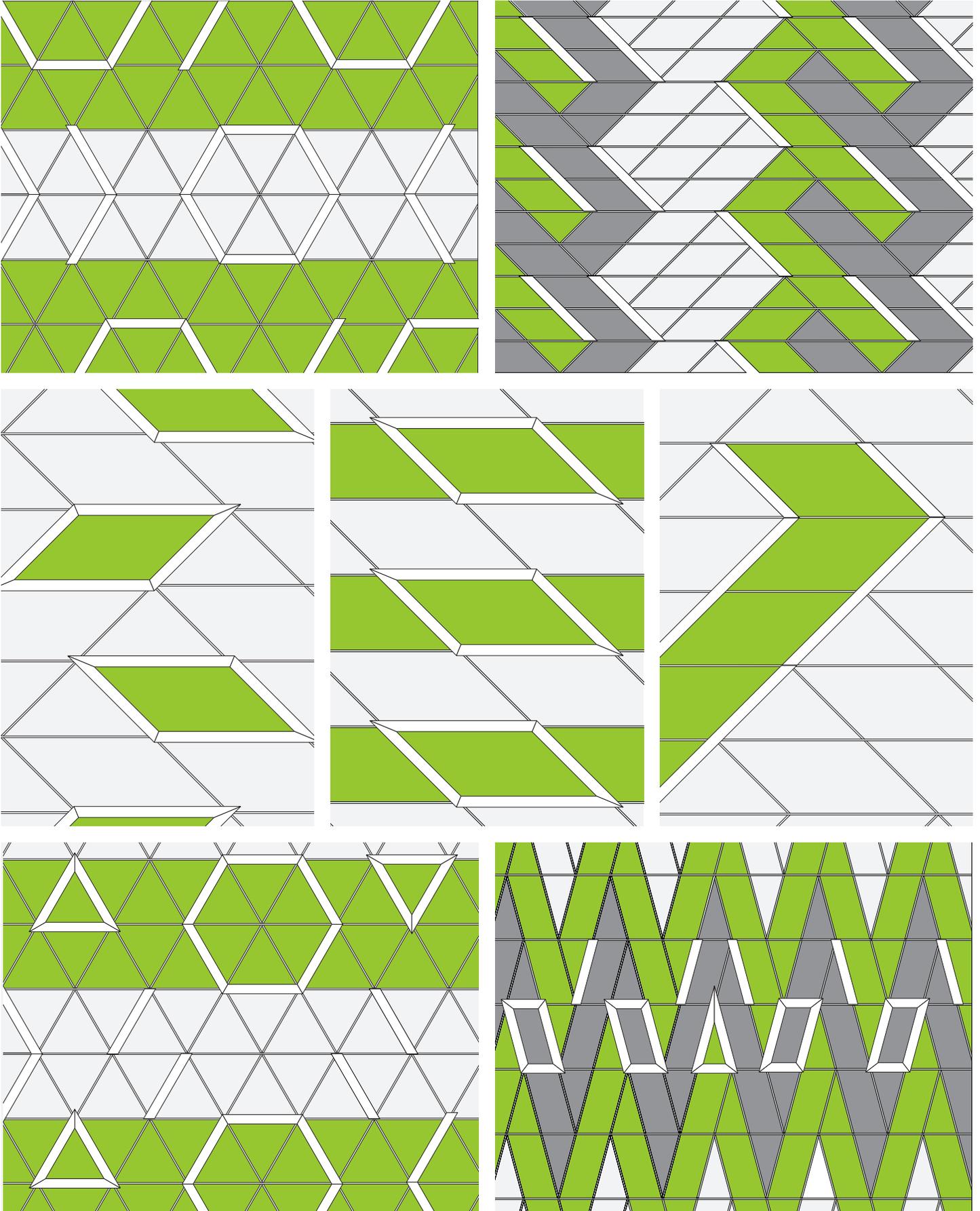
ARMSTRONG® DESIGNFLEX™ 48" CEILINGS; 75° PATTERN
DESIGNFlex™ 48", 75° patterns allows for Triangles and Parallelograms. Stock shape Parallelograms are available in Right and Left angles.



ARMSTRONG® DESIGNFLEX™ 48" CEILINGS; 45° PATTERN
DESIGNFlex™ 48", 45° patterns allows for Parallelograms shapes. Stock shape Parallelograms are available in Right and Left angles to match the Armstrong DESIGNFlex ceiling pattern.



tic-tACT™ FIXTURES FOR ARMSTRONG® 48IN 45°, 60° AND 75° DESIGNFLEX® CEILING
DESIGNFlex™ comes in predefined patterns.



HOUSING

- Extruded Aluminum 6063T6 housing, min wall thickness of 0.75", available in lengths up to 96 inches for custom shapes.
- Standard finish is a satin matte anodize, consult factory for additional finishes.
- Multiple housings align and tab together for straightness and rigidity. All products ship with alignment plates which are field installable for longer straight runs and simple patterns.
- Housing ships assembled. Just add clips to ceiling grid that lock to the back of housing extrusion. Install can be accomplished without removing the lens or disassembly of ceiling grid runners. Prevents building trade conflicts.
- Shallow and rigid housing ensures no sag and constant lens retention along length.
- Class 2 Cable to remote driver location for easy installation and safety.
- Housings ship with 10ft of Class 2 cable, for longer remote mounting distances, consult Factory. EC can extend wiring up to 20ft with D010.
- cETLus Listed damp locations.

MODIFICATIONS

- For unique patterns, modifications or to combine onto other ceiling materials, consult Factory for shop drawings.

LED

- LED Boards are attached to aluminum heat sink at factory. No need to clean surface with alcohol on site.
- Binned to 3MacAdam Ellipses.
- Blending and overlap of led optic keeps color and light output uniform.
- Consult factory for RGBW color fixtures.

OPTICS

- Light Guide Panel (LGP) is removable to access LEDs.
- LGP diffuses multiple LED sources for no hotspots or pixelations.

LENS

- Matte white acrylic lens provides soft luminous, pixel free, smooth illumination.
- All lens have endcaps installed so there are no light leaks where lenses butt together in larger patterns.
- Edges of the lens emit light for perimeter glow on ceiling structure. This prevents harsh contrast effects common with recessed products.
- Custom graphics can be added by factory. Ink is UV cured to resist flaking, scratches, and fading.
- One-piece lens up to 6ft with standard fixtures; up to 10ft max. with custom patterns.

OPTIONS

- EM Labeled feed cables. Requires relay by others to switch from normal to EM input at driver. Dado does not provide battery packs.

OTHER

- All dimensions are measured along the centerline of the fixture, which corresponds to the nominal size of the grid system (i.e. on a 2'x4' ceiling grid, the ends of a 4S fixture align with the centerline of the T-bars, 4ft OC).
- Not all options shown on are contained on this spec sheet. See website or consult with Factory for any unlisted options.
- In custom patterns Factory may suggest modified lengths up to 2 inches to allow full led modules and runs to ensure uniform corners.
- Non-90° corners, T, and X hubs use aligner tabs to prevent misalignment.
- Access to the back of the fixture is required during installation.
- When mounting off the grid, fixtures must cross at least (2) t-bars for support.
- Approved shop drawings required for all patterns.

PHOTOMETRIC DATA

LightLab International Allentown LLC
Independent Test No. LLI001506-002A
Candlepower Distribution (cd)

Cat No: TT35-4S-80CC-27-R-xx
ERG GEN85PGWUV2.6A-D12V LED driver
Driver @ 55ma/module

Tested according to LM-79-08
Luminous Length: 48"
Width: 3.5"

Multiplication Factors

30K
35K
40K
K
K
K

Lumen Output

Input Voltage	120.0 V
Input Power	35.49 W (8.8W/ft)
Power Factor	0.986
Current THD	3.5%
Luminous Flux	4251 m/ft
Total Efficacy	47.8 lm/W

Color Data

CCT	2539K
CRI (Ra)	92
R9	55
TM-30: Rf	90
TM-30: Rg	98

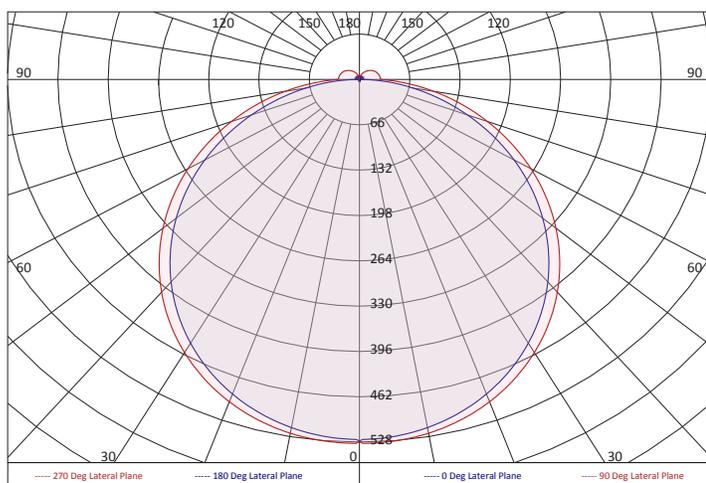
Zonal Lumens

Zone	Lumen	% Luminaire
0-30°	411.8	24.3%
0-40°	677.7	39.9%
0-60°	1215	71.6%
60-90°	396.4	23.4%
90-180°	85.4	5.0%
0-180°	1697	100%

Angle	Along	45°	Across
0°	259	259	259
5°	262	259	256
10°	256	252	251
15°	252	247	246
20°	240	236	234
25°	230	225	225
30°	219	214	211
35°	202	199	197
40°	186	180	179
45°	166	163	162
50°	149	144	145
55°	128	124	125
60°	107	105	104
65°	85	84	82
70°	65	54	54
75°	43	42	40
80°	25	24	26
85°	9	7	10
90°	0	0	0

Average Luminance (cd/m²)

Angle	Along	45°	Across
0°	4856	4856	4856
45°	4504	4074	3995
55°	4326	3789	3686
65°	4067	3403	3287
75°	3694	2858	2741
85°	3106	1952	1882



Visit dadolighting.com for complete photometric data.

ENVIRONMENTAL DATA

Temp range: 0°-90°F (-20 - 30°C)

No Mercury, No UV, No Flicker

Warranty: 5 years

cETLus Damp Listed IC Rated

Contact factory for construction details to install in environments with ambient temperatures above 90° F for more than 5 hours.

Specifications and dimensions subject to change without notice. Protected under U.S. Pat. 8109659 and other patents pending. tic-tACT™ dado lighting. DESIGNFlex™ of Armstrong®.

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