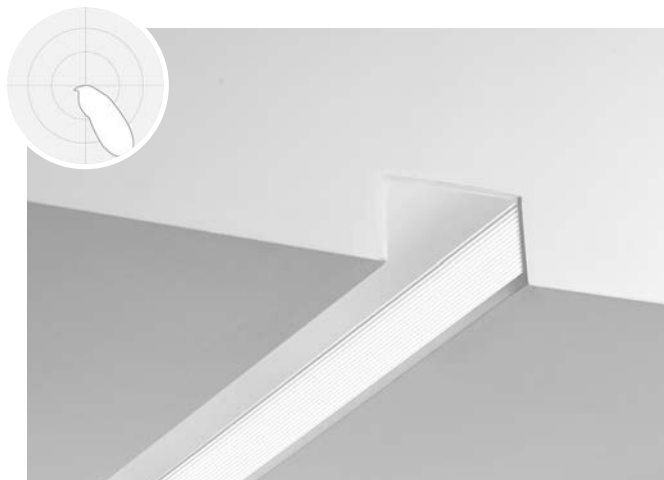




NOTCH 4 - 100 Dn Asymmetric - NF1-A

# Specification Data



D2 - Drywall Trimless shown with (E) Dado Endcap option

Luminaire	NOTCH 4 - 100 Dn Asymmetric - (NF1-A)	Type
Project		
Product		
Notes		

Performance Summary	100 Down Asymmetric	
	A - 5w/ft	B - 6w/ft
Light (lm/ft)	475	600
Energy (W/ft)	5.00	6.00
Efficacy (lm/W)	100	102
Color Rendering (CRI)	80+	80+
Color Accuracy (SDCM)	< 2	< 2
L70 Estimate (h)	200,000	200,000
Lumen Maintenance per TM21 (@ 60,000 h)	L90	L90

Summary values are nominal and based on 4000K CCT



SPECIFICATION

NF1	A	OPTIONS									
1	2	3	4	5	6	7	8	9			
1. FAMILY	2. VERSION	3. TRIM / CEILING	4. DISTRIBUTION	5. LIGHT + ENERGY <sup>2</sup>	6. CCT						
<b>NF1</b> Area 100 Dn Asym 4.3 aperture	<b>L</b> Linear Row <b>P</b> Pattern  <b>PATTERN<sup>1</sup></b> <b>P0</b> Square <b>P1</b> Rectangle <b>P2</b> 2-rows   1-corner <b>P3</b> 3-rows   2-corner <b>P4</b> 4-rows   3-corner <b>P5</b> 5-rows   4-corner	<b>D1</b> Drywall - Trim Flange <b>D2</b> Drywall - Trimless <b>D3</b> Drywall - Drop Radius <b>D4</b> Drywall - Drop Square <b>G1</b> Grid - 9/16" or 15/16" Flat-T <b>G1</b> 9/16" Tegular or Bolt-Slot <b>G1</b> 6" Armstrong TechZone® or 6" USG Logix®	<b>A</b> Asymmetric	<b>A</b> 475 lm + 5w/ft <b>B</b> 600 lm + 6w/ft	<b>30</b> 3000 K <b>35</b> 3500 K <b>40</b> 4000 K						
7. DRIVER	8. VOLTAGE	9. LENGTH <sup>4</sup>	OPTIONS								
<b>E1</b> eldoLED ECO 0-10V Dim 1% <b>E2</b> eldoLED SOLO 0-10V Dim 0.1% <b>E3</b> eldoLED ECO DALI 1% <b>E4</b> eldoLED SOLO DALI Dim 0.1% <b>F1</b> Factory Non- Dim <b>F2</b> Factory 0-10V Dim 3% <b>L1</b> Lutron Hi-Lume 1%-H EcoSystem	<b>M</b> 120 - 277 V <b>3</b> 347 V <sup>3</sup>	<b>XX</b> Drywall - Specify 1ft Increments <b>XX</b> Grid - Specify 2ft Increments <b>LC</b> 2 ft x 2ft Corner	<b>A</b> Alternate Wiring (AV) <b>B</b> Battery Pack <sup>5</sup> <b>C</b> Chicago Plenum <b>E</b> Dado Endcap <sup>6</sup> <b>F</b> 6' Flex Whip (Standalone Only) <b>K</b> Black Trim and Endcap <b>M</b> EM or NL (2nd neutral) <b>T</b> Throughwire Circuit <b>U</b> Throughwire (w / neutral)								

NOTES					
<sup>1</sup> Other pattern options available. See page 3 and/or consult factory	<sup>2</sup> Add 1w/ft for 347V with E1-4/L1	<sup>3</sup> 347V Driver for F1/F2, 347V Transformer & Driver for E1-4/L1	<sup>4</sup> Minimum length is 2 feet	<sup>5</sup> Available for 120-277V in 4 or 8 foot	<sup>6</sup> Available with D2 trim option. Default option is to install in one end only. Call factory for options.

TRIM OPTIONS

TRIM



D1 - Drywall Trim Flange

TRIMLESS



D2 - Drywall Trimless

DROP TRIM



D3 - Drywall Drop Radius

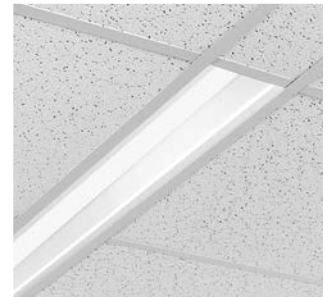


D4 - Drywall Drop Square

GRID



G1 - 9/16" Grid Flat T



G1 - 15/16" Grid Flat T



G1 - 9/16" Tegular | Slot Grid

NOTE: Use **G1** for 6" Armstrong TechZone® or 6" USG Logix®

OPTICAL

- Anidolic optical system with linear light extraction elements
- Precision extruded high transmittance clear acrylic lenses
- Long life LED system designed for TM21 lumen maintenance  $\geq$  L90 @ 60,000 h
- Available in CCTs 3000 K, 3500 K or 4000 K with CRI  $\geq$  80 and R9  $\geq$  0, all with color accurate binning  $\leq$  2 SDCM

CONSTRUCTION

- 20 ga. satin coat steel housing
- Extruded aluminum flange options available for drywall trim, trimless and t-bar grid ceilings

ELECTRICAL

- Integral high efficiency drivers 120 - 277 V or 347 V; 50 - 60 Hz
- Optional Battery Pack
- Optional flex whip: 6' prewired for standalone
- Surge Protection: Meets ANSI C82.11 spec and ANSI/IEEE C62.41
- Inrush Current: Meets NEMA 410

ENVIRONMENTAL

- Designed for use in damp or dry indoor environments with room side operating temperatures of 0 - 30° C (32 - 86° F)

WARRANTY

- 5 year limited warranty on all components and workmanship

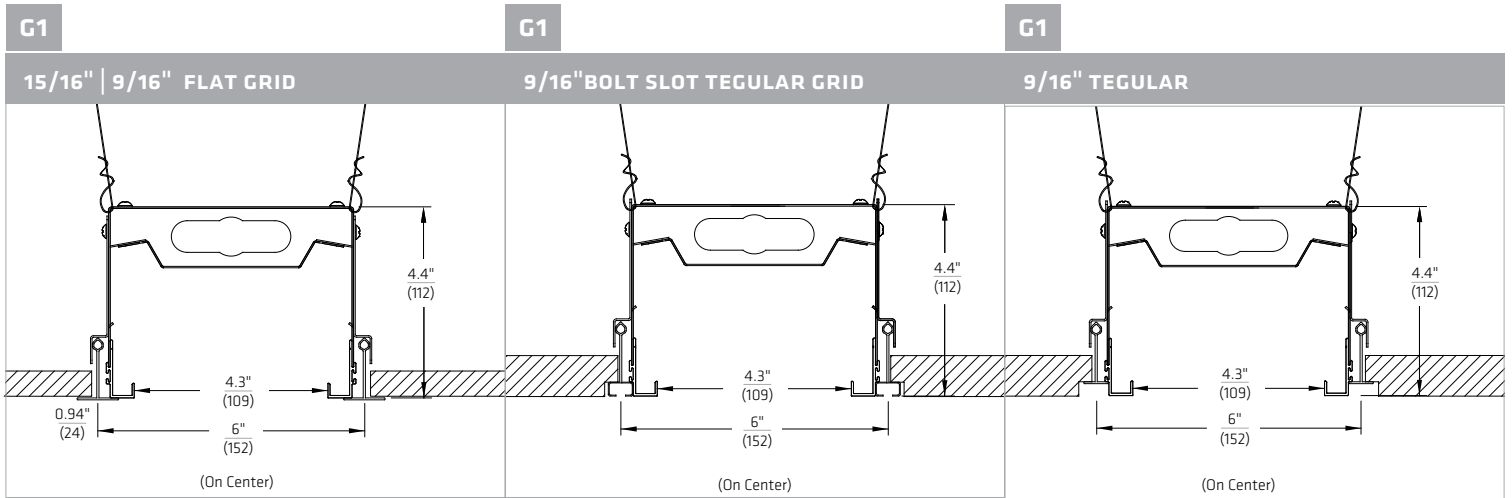
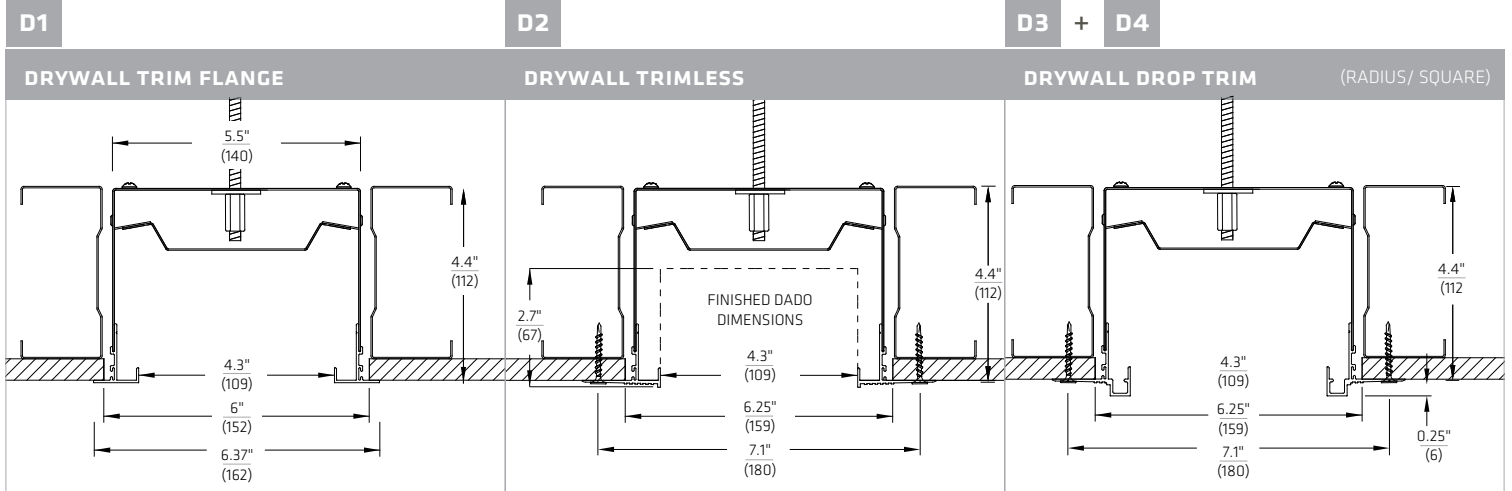
INDEPENDENT TESTING

- IESNA LM79
- IESNA LM80 (LED@ 10,000 h)

APPROVALS

- UL Listed (USA + Canada)
- CCEA Chicago Plenum
- Lighting Facts®
- IC Rated

### DIMENSIONS inches (mm)



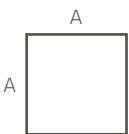
Grid (G1) is compatible with 6" Armstrong TechZone® and 6" USG Logix® Ceiling Systems

### PATTERNS

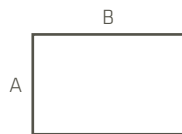
For patterns, design your own layout using the trim and corner options available or choose from our patterns for simpler specification.

NOTE: Minimum corner to corner length - 4ft in drywall (4' x 4' square) | 6ft in grid (6' x 6' square)

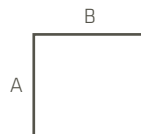
P0 - SQUARE



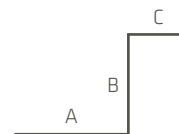
P1 - RECTANGLE



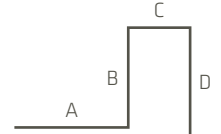
P2 - 2 SIDES | 1 CORNER



P3 - 3 SIDES | 2 CORNER



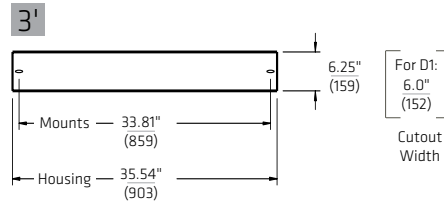
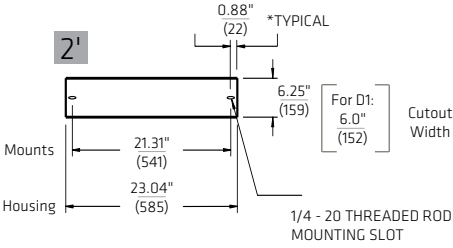
P4 - 4 SIDES | 3 CORNER



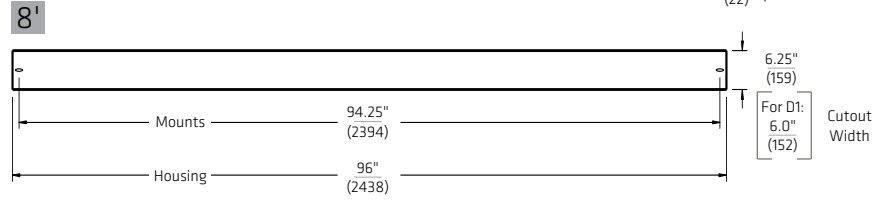
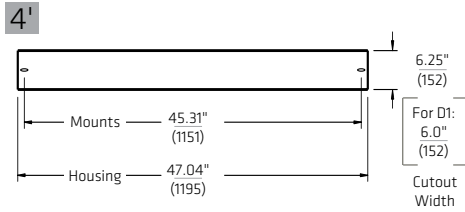
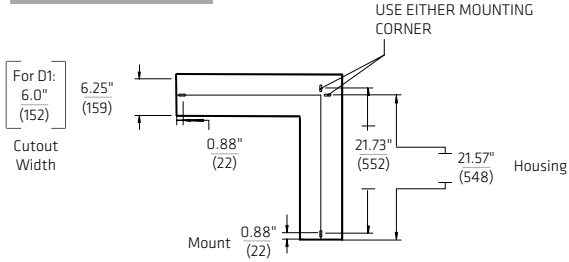
### DRYWALL CUT OUT DIMENSIONS

inches  
(mm)

Continuous rows are available in nominal 1' increment in drywall ceilings and in 2' increments on-grid for T-bar ceilings. Standalone fixtures are available in nominal 2', 3', 4' or 8' sizes.



### 2'x2' CORNER



### ENDCAP ALLOWANCE

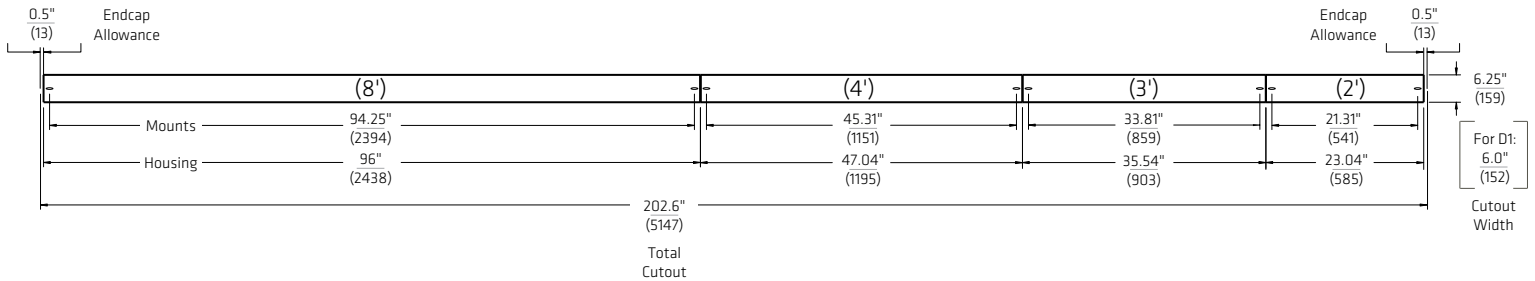
For overall ceiling cut-out length, add an endcap allowance to each end of a straight run, or final leg of an open pattern: 1/2" for standard end (D1-D4), 3/16" for Dado endcap.

DO NOT add this allowance for closed patterns or corner legs in an open pattern. Instead, use centerline dimensions and cutout width to determine the opening.

### INSTALLATION NOTES:

- Cutout dimensions apply to all drywall trim options.
- A minimum depth of 4.75" above ceiling plane is required.
- Ensure 1/4 -20 threaded rod length is cut between 3.125" - 3.75" above finished ceiling plane
- 2 threaded rods required for each linear housing (3 for corner housing)

### Example of a drywall cutout for a 17' run



Light + Energy	<b>A - 475 lm + 5.00w/ft</b>	Description	Performance Summary							
Version	NF1-AA40	4ft luminaire 100 Dn, A Lumens CCT 4000 K	CCT Color Temperature	4000 K	1873	18.77	99.8	Color Accuracy		
Report	11651177.01			3500 K	1847	18.77	98.4	(CRI)	(R9)	(SDCM)
				3000K	1821	18.77	97	83.7	12.1	< 2

100% Dn

**CANDLEPOWER DISTRIBUTION**

Vertical Angle	Horizontal Angle				Zonal Lumens
	0°	22.5°	45°	67.5°	
0°	401	401	401	401	401
5°	404	412	422	427	432
15°	392	451	638	768	812
25°	368	573	864	997	1040
35°	333	671	954	1035	1045
45°	288	706	916	881	824
55°	233	669	755	530	479
65°	171	568	436	260	224
75°	104	399	149	85	76
85°	37	75	32	28	27
90°	0	0	0	0	0
95°	0	0	0	0	0
105°	0	0	0	0	0
115°	0	0	0	0	0
125°	0	0	0	0	0
135°	0	0	0	0	0
145°	0	0	0	0	0
155°	0	0	0	0	0
165°	0	0	0	0	0
175°	0	0	0	0	0
180°	0	0	0	0	0

**LUMEN SUMMARY**

Zone	Lumens	% Lamp	% Fixture
0-30°	419	N.A.	22
0-60°	1429	N.A.	76
0-90°	1873	N.A.	100
90-180°	0	N.A.	0
Total Luminaire	1873	N.A.	100

**LUMINANCE DATA (CD/M<sup>2</sup>)**

Vertical Angle	0°			45°			90°		
	0°	45°	90°	0°	45°	90°	0°	45°	90°
45°	3076	9794	8815						
55°	3066	9954	6311						
65°	3064	7806	4016						
75°	3048	4360	2230						
85°	3167	2794	2378						

**LED lighting facts**

Light Output (Lumens) **1873**  
 Watts **18.77**  
 Lumens per Watt (Efficacy) **99.79**

Color Accuracy  
 Color Rendering Index (CRI) **83**

Light Color  
 Correlated Color Temperature (CCT) **4000 (Bright White)**

Warm White    Bright White    Daylight

2700K    3000K    4500K    6500K

Visit [www.lightingfacts.com](http://www.lightingfacts.com) for the Label Reference Guide.

Integrating Sphere and Photometric results at 4000K by an independent accredited testing laboratory per IES LM-79-2008 and ANSI C78.377-2011. Results for 3000K, 3500K scaled based on integrating sphere results of NF1-B at 19W (A). Candlepower Distribution scaled per total lumens of Integrating Sphere results.

Light + Energy	<b>B - 600 lm + 6.00w/ft</b>	Description	Performance Summary							
Version	NF1-AB40	4ft luminaire 100 Dn, B Lumens CCT 4000 K	CCT Color Temperature	4000 K	2417	23.69	102	Color Accuracy		
Report	11921916.02			3500 K	2383	23.69	100.6	(CRI)	(R9)	(SDCM)
				3000K	2349	23.69	99.2	82.9	6.7	< 2

100% Dn

**CANDLEPOWER DISTRIBUTION**

Vertical Angle	Horizontal Angle				Zonal Lumens
	0°	22.5°	45°	67.5°	
0°	518	518	518	518	518
5°	521	531	544	550	557
15°	505	583	824	991	1047
25°	475	739	1115	1287	1341
35°	430	865	1231	1335	1349
45°	371	911	1182	1137	1063
55°	300	863	974	684	618
65°	221	733	563	336	290
75°	135	514	193	110	99
85°	47	97	42	36	35
90°	0	0	0	0	0
95°	0	0	0	0	0
105°	0	0	0	0	0
115°	0	0	0	0	0
125°	0	0	0	0	0
135°	0	0	0	0	0
145°	0	0	0	0	0
155°	0	0	0	0	0
165°	0	0	0	0	0
175°	0	0	0	0	0
180°	0	0	0	0	0

**LUMEN SUMMARY**

Zone	Lumens	% Lamp	% Fixture
0-30°	540	N.A.	22
0-60°	1844	N.A.	76
0-90°	2417	N.A.	100
90-180°	0	N.A.	0
Total Luminaire	2417	N.A.	100

**LUMINANCE DATA (CD/M<sup>2</sup>)**

Vertical Angle	0°			45°			90°		
	0°	45°	90°	0°	45°	90°	0°	45°	90°
45°	3969	12639	11374						
55°	3956	12846	8144						
65°	3953	10075	5181						
75°	3933	5628	2878						
85°	4087	3601	3072						

**LED lighting facts**

Light Output (Lumens) **2417**  
 Watts **23.69**  
 Lumens per Watt (Efficacy) **102.03**

Color Accuracy  
 Color Rendering Index (CRI) **82**

Light Color  
 Correlated Color Temperature (CCT) **4000 (Bright White)**

Warm White    Bright White    Daylight

2700K    3000K    4500K    6500K

Visit [www.lightingfacts.com](http://www.lightingfacts.com) for the Label Reference Guide.