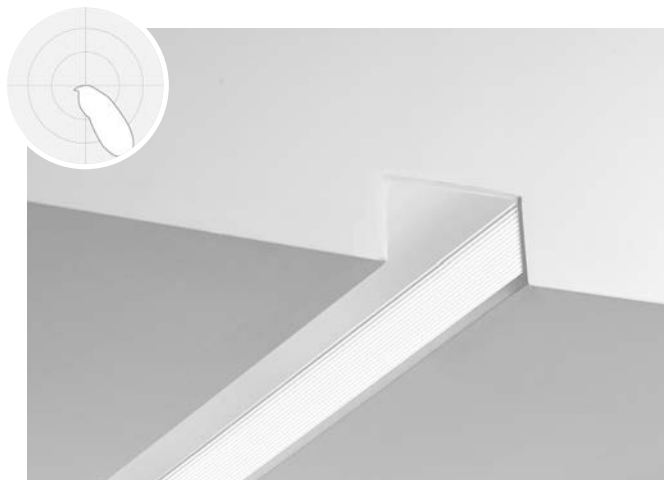




NOTCH 4 - 100 Dn Asymmetric - NF1-A

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

NOTES					
¹ Other pattern options available. See page 3 and/or consult factory	² Add 1w/ft for 347V with E1-4/L1	³ 347V Driver for F1/F2, 347V Transformer & Driver for E1-4/L1	⁴ Minimum length is 2 feet	⁵ Available for 120-277V in 4 or 8 foot	⁶ 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

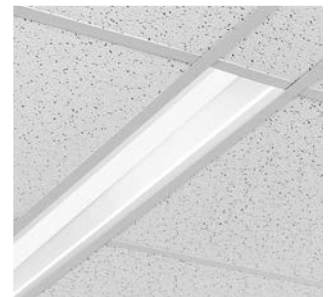


D4 - Drywall Drop Square

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

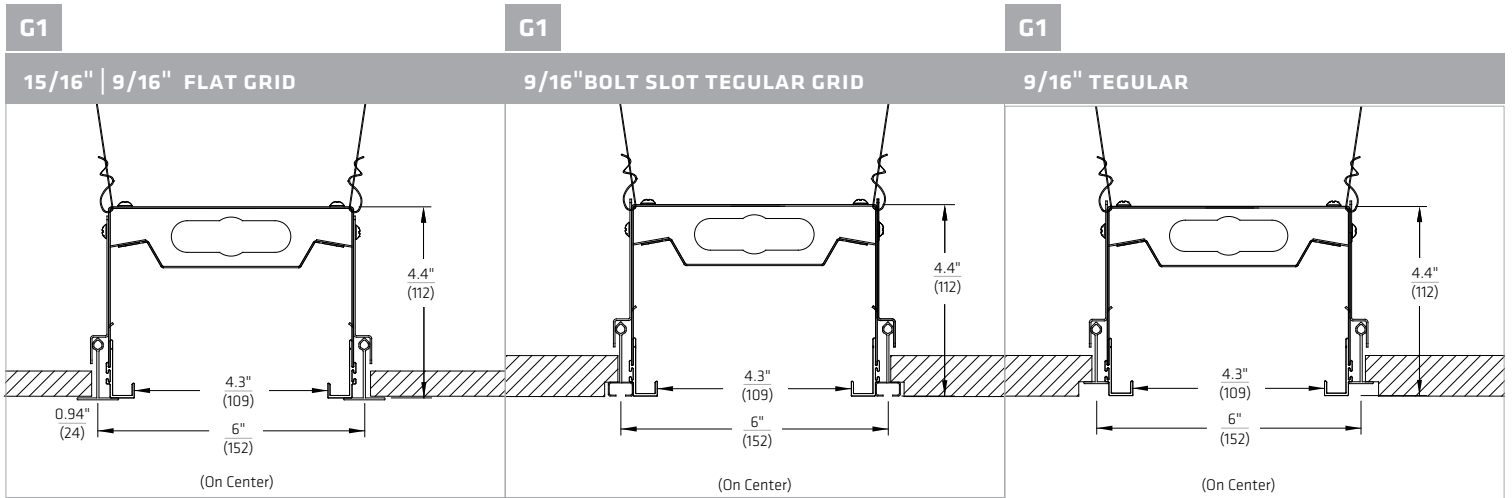
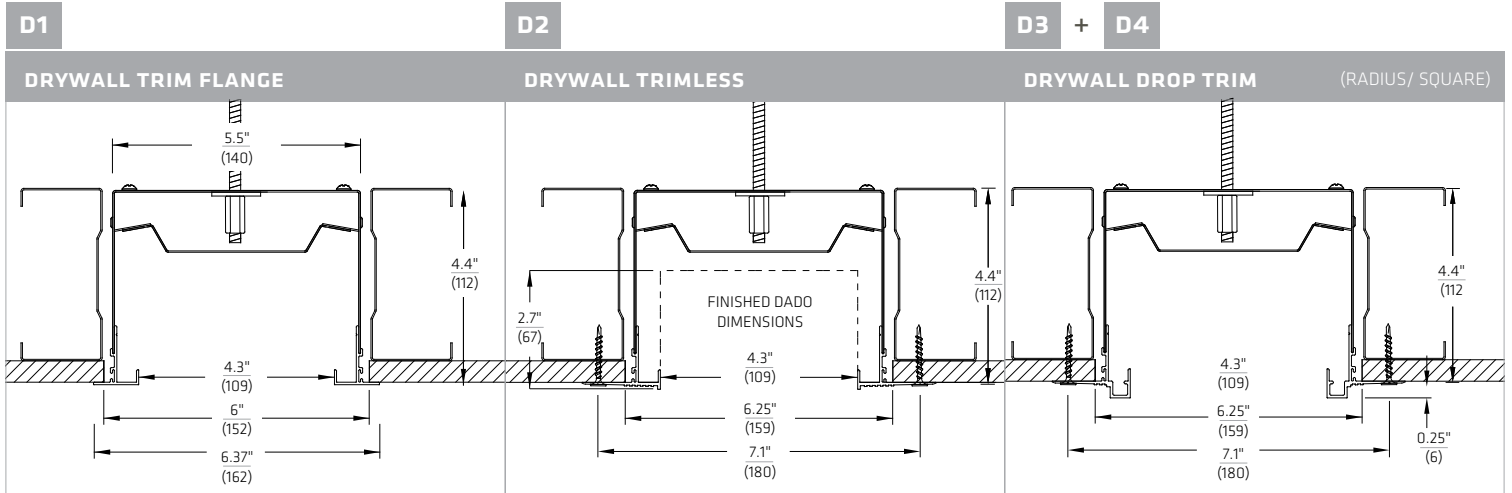
INDEPENDENT TESTING

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

APPROVALS

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

DIMENSIONS inches (mm)



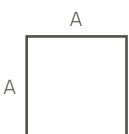
Grid (G1) is compatible with 6" Armstrong TechZone® and 6" USG Logix® Ceiling Systems

PATTERNS

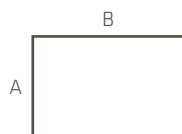
For patterns, design your own layout using the trim and corner options available or choose from our patterns for simpler specification.

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

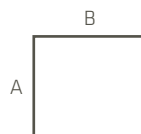
P0 - SQUARE



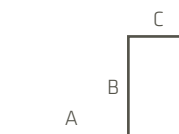
P1 - RECTANGLE



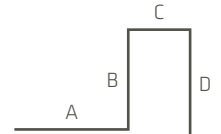
P2 - 2 SIDES | 1 CORNER



P3 - 3 SIDES | 2 CORNER



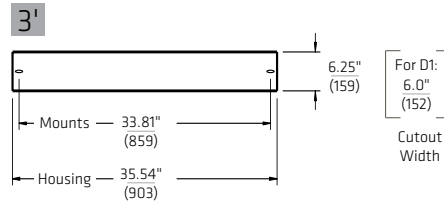
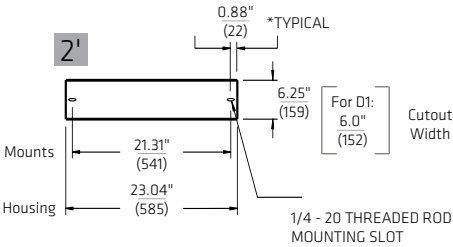
P4 - 4 SIDES | 3 CORNER



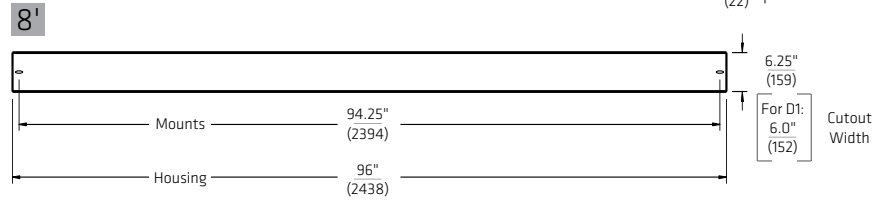
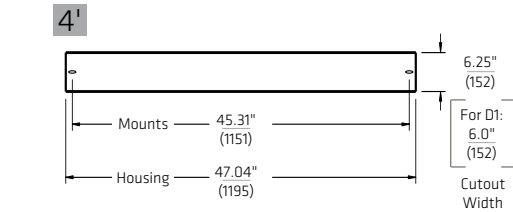
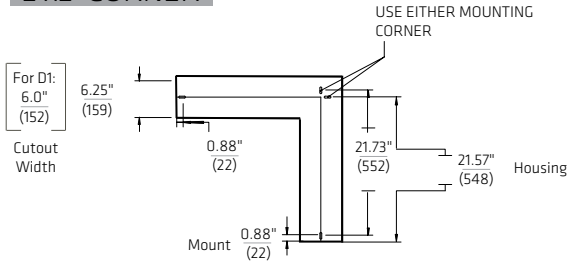
DRYWALL CUT OUT DIMENSIONS

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

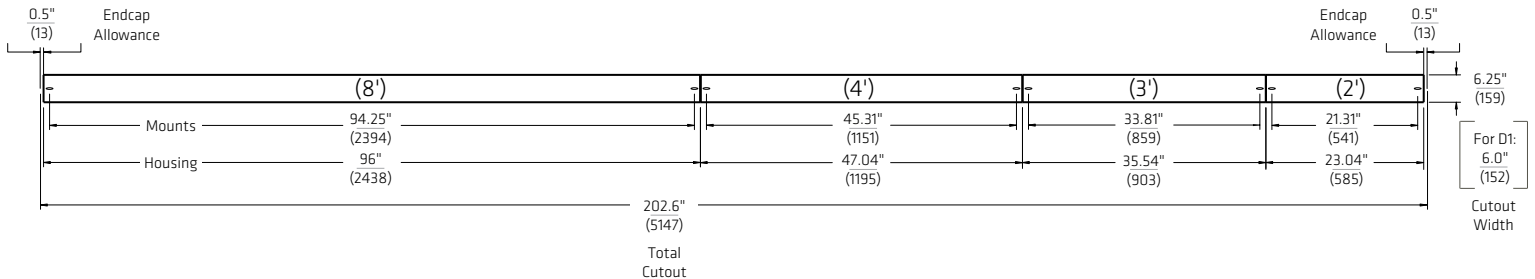
For overall ceiling cut-out length, add an endcap allowance to each end of a straight run, or final leg of an open pattern: 1/2" for standard end (D1-D4), 3/16" for Dado endcap.

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	A - 475 lm + 5.00w/ft	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°	90°
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/M²)

Vertical Angle	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 for the Label Reference Guide.

CO-EFFICIENTS OF UTILIZATION

Floor Ceiling Wall	80				70				20					
	70	50	30	10	70	50	10	50	10	50	10	50		
0	119	119	119	119	116	116	116	111	111	106	106	102	102	100
1	108	103	98	94	105	101	93	96	90	92	87	89	84	82
2	98	89	82	76	95	87	75	83	73	80	71	77	70	67
3	88	77	69	62	86	76	61	73	60	70	59	67	58	56
4	81	68	59	52	78	67	51	64	51	62	50	59	49	47
5	74	60	51	44	72	59	44	57	43	55	43	53	42	40
6	68	54	45	38	66	53	38	51	37	49	37	48	37	34
7	63	49	39	33	61	48	33	46	33	45	32	43	32	30
8	58	44	35	29	56	43	29	42	29	41	29	39	28	26
9	54	40	32	26	53	40	26	38	26	37	25	36	25	23
10	51	37	29	23	49	36	23	35	23	34	23	33	23	21

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 - 600 lm + 6.00w/ft	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°	90°
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/M²)

Vertical Angle	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 for the Label Reference Guide.

CO-EFFICIENTS OF UTILIZATION

Floor Ceiling Wall	80				70				20					
	70	50	30	10	70	50	10	50	10	50	10	50		
0	119	119	119	119	116	116	116	111	111	106	106	102	102	100
1	108	103	98	94	105	101	93	96	90	92	87	89	84	82
2	98	89	82	76	95	87	75	83	73	80	71	77	70	67
3	88	77	69	62	86	76	61	73	60	70	59	67	58	56
4	81	68	59	52	78	67	51	64	51	62	50	59	49	47
5	74	60	51	44	72	59	44	57	43	55	43	53	42	40
6	68	54	45	38	66	53	38	51	37	49	37	48	37	34
7	63	49	39	33	61	48	33	46	33	45	32	43	32	30
8	58	44	35	29	56	43	29	42	29	41	29	39	28	26
9	54	40	32	26	53	40	26	38	26	37	25	36	25	23
10	51	37	29	23	49	36	23	35	23	34	23	33	23	21