

AC 2DR 2" Downlight - Round

AGILE-CORE™
Distributed Edge Architecture

PROJECT:

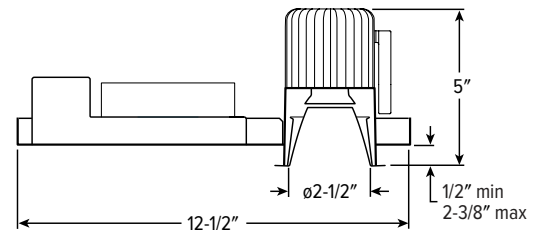
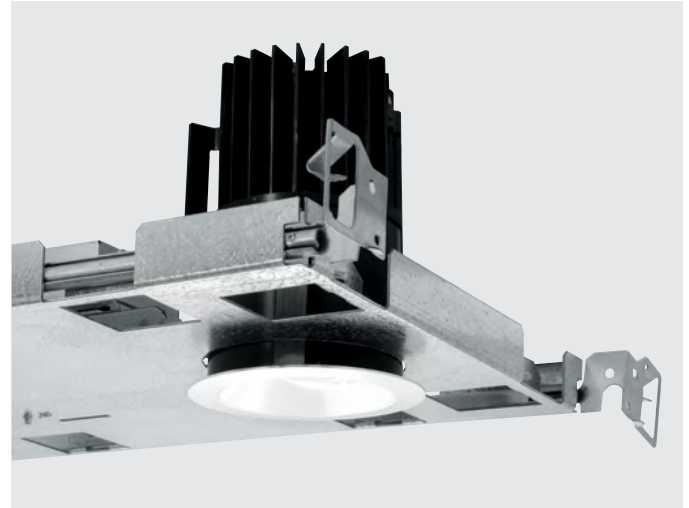
QTY:

TYPE:

CATALOG:

SPECIFICATIONS:

Housing	Die-cast aluminum trim housing with forged aluminum heat sink. Swing-out mounting arms field adjust for ceiling thickness from 1/2" – 2-3/8".
Open Reflector	Low-iridescent anodized aluminum. Clear semi-specular finish standard.
Lensed Trim	Die-cast aluminum frame with micro-prismatic, acrylic lens. Diffuse acrylic lens standard with A Trim Type.
Electrical	High-performance Class 2 C.O.B. LED array. Reported L70>55,000 hours. Reported L90>55,000 hours. Estimated L70 = 200,000 hours. Lowvoltage DC fixture, to be fed by Class 2 power supply. Tunable White products use LEDs of multiple CCTs and may produce a perceptibly different shade of white from single-CCT products at the same CCT. All CCTs are within 3 MacAdam ellipses.
Mounting	Recessed. 20 ga. galvanized steel mounting pan for new construction or IC-rated enclosure. Minimum 12-1/2" O.C. marked spacing required for P15 static white (S Distribution only), P20 and P23 static white, P12 and P15 tunable white lumen packages when specified with R Mounting Type. Nodes cannot be mounted above hard ceilings.
Listings	<ul style="list-style-type: none">• cCSAus conforms to UL STD 1598; Certified to CAN/CSA STD C22.2 No. 250.0 for dry and damp locations. LED light assembly conforms to UL 2108 for remote installation.• Suitable for wet location under covered ceiling when specified with WET/CC option or F trim type.• IC-rated for direct contact with insulation when specified with I Mounting Type.• City of Chicago Environmental Air approved when specified with CP option.• Complies with ASTM-E283 when specified with ATH option.• RoHS compliant.• Complies with the Buy American Act and other federal regulations.
Warranty	5-year limited warranty



FEATURES:

- Maximum energy savings with efficacies up to 102 lm/W
- No in-luminaire drivers extending fixture life, using less materials and lowering costs
- Daisy chain multiple fixtures per home run
- Compatible with Cat 6 patch cable when used with XPD accessory
- Made in the USA

CERTIFICATIONS



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ORDERING GUIDE:

Example Catalog # AC 2DR P15/835 FL OW OF CS MWT N F1

Family	Lumens ¹	/ CRI	CCT	Pwr/Control ²	Options	Trim Type ⁶	Distribution
AC 2DR	P4 443lm	8 80 ³ 9 90	27 2700K	FL flying leads AGILE-CORE™ ready	ATH Airtight construction	O Open reflector	W Wide M Medium N Narrow ⁹ S Narrow spot ¹⁰ WW Wall wash ¹¹
	P7 717lm		30 3000K			F Open reflector with frosted top diffuser ⁷	
	P10 1004lm		35 3500K			L Flush lens	
	P15 1530lm		40 4000K			R Regressed lens	
	P20 1991lm		50 5000K			A Angled lens ⁸	
	P25 2458lm		TW Tunable White (90 CRI, 2700K-5000K) ⁴				

Flange Type	Reflector Finish	Trip Options	Mounting ¹⁸	Mounting Hardware ¹⁹
OF 1/2” standard flange	OPEN TRIM TYPES	MWT Smooth matte white trim flange ¹⁴	N Open pan for new construction	F1 Integral 2-position fixed pan bracket, universal bar hanger included ²²
	CS Clear semi-specular anodize			
ZF Zero-flange mud in ¹²	SG Satin glow anodize	AD Diffuse acrylic lens ¹⁵	I IC-rated enclosure for new construction ²⁰	BA1 Adjustable butterfly pan bracket, bar hanger not included ²³
	GD Gold anodize			
	CG Champagne gold anodize	PD Diffuse 1/8” polycarbonate lens ¹⁶		
	PW Pewter anodize	WET/CC Wet location, covered ceiling listed		
	SPC Clear specular anodize	AM Anti-microbial ¹⁷		
	RG Rose gold anodize			
WH White texture powder coat		R Remodel Kit ²¹	CA1 Adjustable catepillar pan bracket, universal hanger included ²⁴	
BL Black texture powder coat				
	LENS TRIM TYPES			
	CS Clear semi-specular powder coat			
	WH White texture powder coat			
	BL Black texture powder coat			
	MB Black texture splay with white flange ¹³			

1 Lumen output based on O Trim Type, W Distribution, and CS Reflector Finish, 80 CRI/3500K for single CCT and 90 CRI/4000K CCT for TW. Actual performance may vary +/-5%, see page 2 for FIXTURE PERFORMANCE DATA.

2 For additional PoE connection details, consult factory.

3 Not available with tunable white.

4 P15 lumen package max with W, M, and WW Distributions. P12 lumen package max with N Distribution. Not available with S Distribution.

5 I Mounting Type required.

6 Trim ships separately

7 WET/CC standard.

8 Available with WW Distribution only.

9 When specified with L or R Trim Type: P20 static white and P12 tunable white lumen packages max for N and R Mounting Type, P12 static white and P7 tunable white lumen packages max for I Mounting Type.

10 Static white only. P15 lumen package max for N and R Mounting. P12 lumen package max for I Mounting. Not available with 950 CRI/CCT.

11 A Trim Type only.

12 For use with mud-in plaster construction only, supplied with mud flange installation kit. See page 4 for TRIM TYPE DETAILS. Not available with O Trim Type or ATH Option.

13 R Trim Type only. Not available with ZF Flange Type or MWT Trim Option.

14 Not available with L Trim Type, ZF Flange Type or WH Reflector Finish.

15 W Distribution only. Not available with O or F Trim Types.

16 W and WW Distributions only. Not available with O or F Trim Types.

17 WH and BL Reflector Finishes only.

18 Mounting hardware required (N and I only), ordered separately, see MOUNTING HARDWARE ordering info. See page 5 for MOUNTING TYPE DETAILS.

19 Additional mounting hardware options available. See page 5 for MOUNTING HARDWARE DETAILS.

20 P15 static white and P9 tunable white lumen packages max.

21 Also used in new construction sheetrock ceilings. Pan-less installation.

22 N and I Mounting Types only. I Mounting requires external brackets.

23 N Mounting Type only.

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ACCESSORIES

ordered separately

XPD-P2H-G	Adapter - (2) RJ45 & (1) 2 CH terminal block
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PERFORMANCE TABLE

AC 2DR (OPEN REFLECTOR)

LED	Distribution	Delivered Lumens	Wattage	Efficacy (lm/W)	Control (sold separately)	LED Channels	LED Vf max (V)	LED If max/ch (mA)
P4	W	443	5	89	(1) XPD-P2H-G	1	33	153
	M	428	5	86		1	33	153
	N	349	5	70		1	33	153
	S	332	5	66		1	33	153
	WW*	324	5	65		1	33	153
P7	W	717	7.5	96		1	34	225
	M	692	7.5	92		1	34	225
	N	565	7.5	75		1	34	225
	S	494	7.5	66		1	34	225
	WW*	523	7.5	70		1	34	225
P10	W	1004	10	100		1	34	294
	M	970	10	97		1	34	294
	N	843	10	84		1	34	294
	S	648	10	65		1	34	294
	WW*	727	10	73		1	34	294
P15	W	1530	15	102		1	35	433
	M	1478	15	99		1	35	433
	N	1208	15	81		1	35	433
	S	939	15	63		1	35	433
	WW*	1110	15	74		1	35	433
P20	W	1991	20	100		1	35	592
	M	1923	20	96		1	35	592
	N	1572	20	79		1	35	592
	S	1176	20	59		1	35	592
	WW*	1445	20	72		1	35	592
P25	W	2458	25	98		1	35	738
	M	2375	25	95		1	35	738
	N	1941	25	78		1	35	738
		1453	25	58		1	35	738
	WW*	1743	25	70		1	35	738

*Angled lens trim

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MULTIPLIER TABLE

	Color Temperature				Reflector Finish		Trim Options				
	CCT	Lumens			Catalog Number	Conversion Factor	Catalog Number		Conversion Factor		
		Standard	Tunable White								
80 CRI	2700K	0.92	-	0 Trim	CS	1.00	AD	0.85			
	3000K	0.98	-		SG ¹	0.92	PD	0.85			
	3500K	1.00	-		GD	0.93	TD	0.67			
	4000K	1.01	-		CG	0.96	WET/CC	0.85			
	5000K	1.02	-		PW	0.86					
90 CRI	2700K	0.76	0.87		R Trim	SPC	1.02				
	3000K	0.79	0.96			RG	0.88				
	3500K	0.82	1.02	WH ¹		0.89					
	4000K	0.84	1.00	BL ¹		0.47					
	5000K	0.88	1.02	WH		1.00					
			CS	0.98							
			BL	0.79							

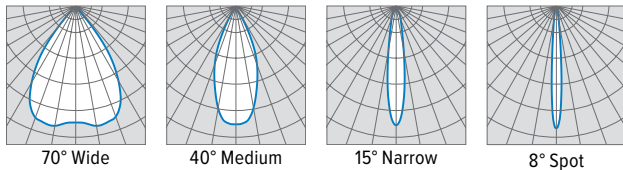
¹ Distribution will also be affected, consult factory.

² Beam angle based on CS Reflector Finish.

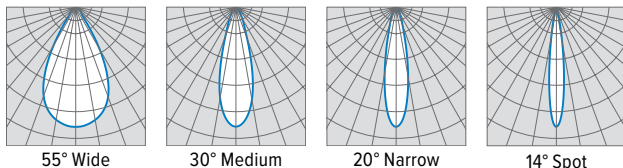
- Photometrics tested in accordance with IESNA LM-79. Results based on CS (O or F trim types) or WH (L, R and A trim types) reflector finish, W distribution and 25°C ambient temperature. Static white results based on 80 CRI/3500K CCT. Tunable white results based on 90 CRI/4000K CCT. Actual performance may vary +/-5%
- Wattage and efficacy data shown do not account for node losses.
- Beam angle based on static white, O Trim Type and CS Reflector Finish.
- Use multiplier tables to calculate additional options.

PHOTOMETRY

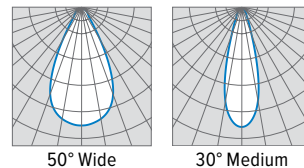
OPEN (O)



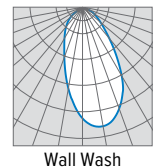
REGRESSED (R)



FLUSH (L)



ANGLED (A)

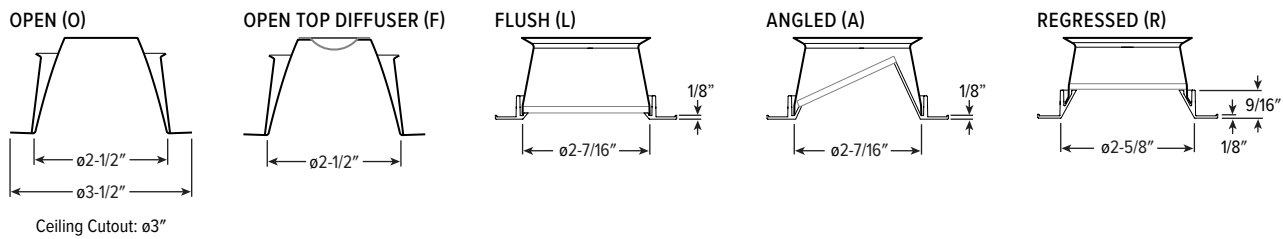


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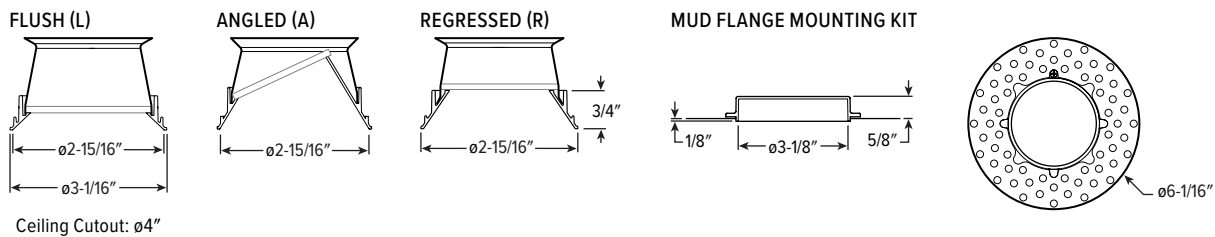
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TRIM TYPE DETAILS

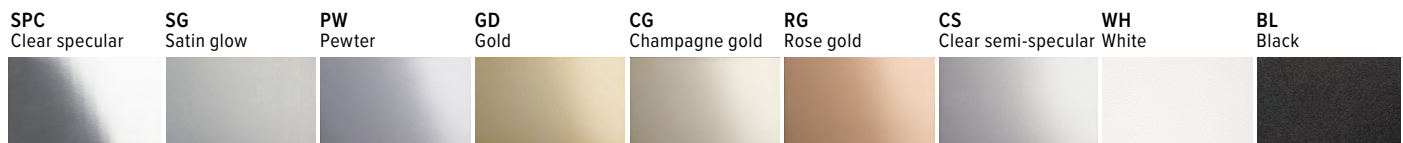
1/2" STANDARD FLANGE TYPE



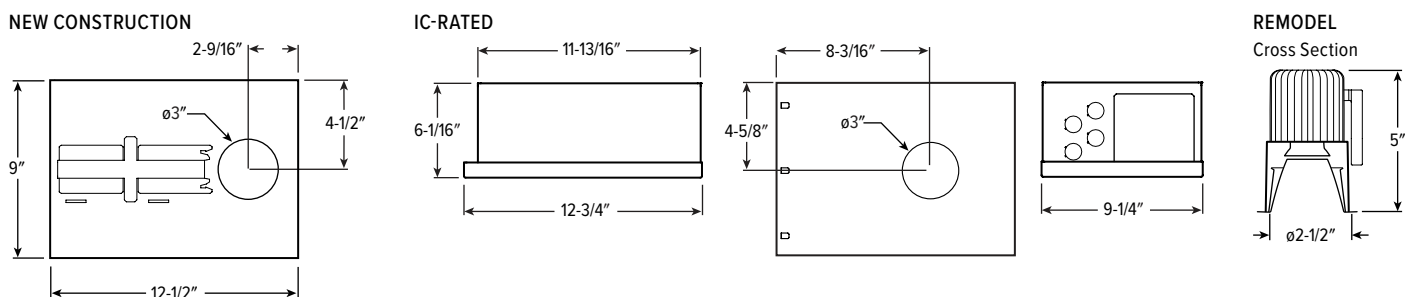
ZERO-FLANGE MUD-IN



REFLECTOR FINISH DETAILS



MOUNTING TYPE DETAILS

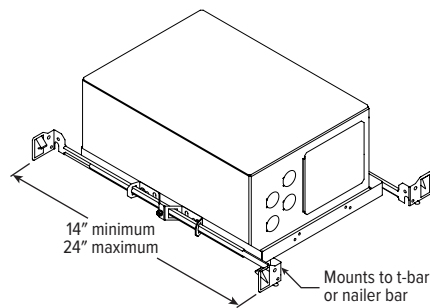
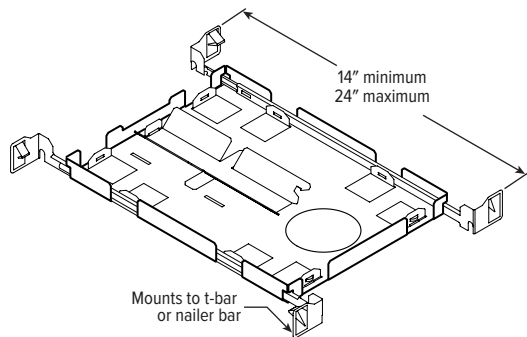


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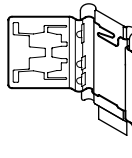
MOUNTING HARDWARE DETAILS

F1 Integral 2-position fixed pan bracket, universal bar hanger included

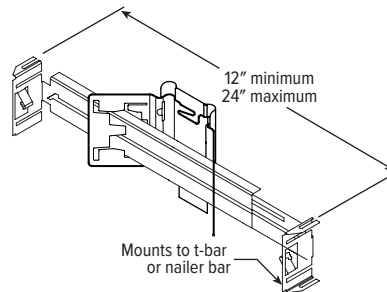


F1 with I Mounting Type

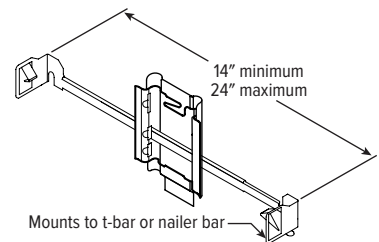
BA1 Adjustable butterfly pan bracket, bar hanger not included (N Mounting Type only)



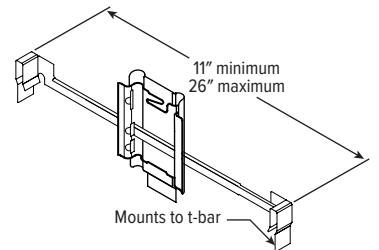
BA2 Adjustable butterfly pan bracket, heavy-duty universal bar hanger included (N Mounting Type only)



CA1 Adjustable caterpillar pan bracket, universal bar hanger included (N Mounting Type only)



CA2 Adjustable caterpillar pan bracket, t-bar hanger included (N Mounting Type only)



AGILE-CORE POWER DISTRIBUTION AND CONTROL SYSTEM

