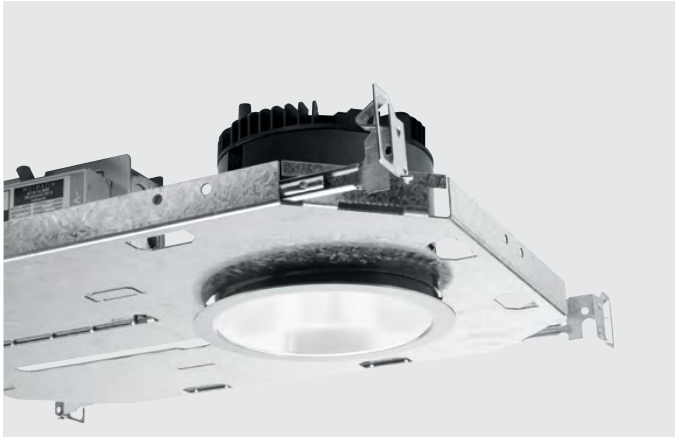
AC 4DR 4.5″ Downlight - Round

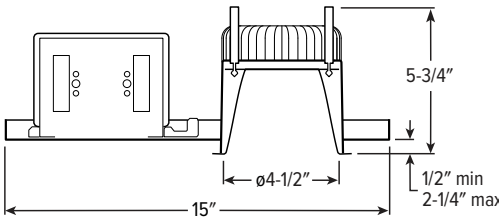
AGILE-CORE™
Distributed Edge Architecture

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	• 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





P15 – P44 Lumens shown

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

C SP US · BAA · MADE IN USA · BABA · RoHS · TAA Compliant · WET/CC · CCEA Approved

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ORDERING GUIDE:

Example Catalog # AC 4DR P38/835 FL OW OF CS MWT N F1

Family	Lumens[1]	/ CRI	CCT	Pwr/Control[2]	Options	Trim Type[6]	Distribution
AC 4DR	**P10** 981lm **P12** 1251lm **P18** 1771lm **P24** 2396lm **P38** 3795lm **P60** 6026lm	**8** 80[3] **9** 90	**27** 2700K **30** 3000K **35** 3500K **40** 4000K **50** 5000K **TW** Tunable White (90 CRI, 2700K-5000K)[4]	**FL** flying leads AGILE-CORE™ ready	**ATH** Airtight construction **CP** Chicago plenum (CCEA)[5]	**O** Open reflector **F** Open reflector with frosted top diffuser[7] **L** Flush lens **R** Regressed lens **A** Angled lens[8]	**W** Wide **M** Medium **N** Narrow[9] **S** Narrow spot[10] **WW** Wall wash[11]

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

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 availabe 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

PERFORMANCE TABLE

AC 4DR (OPEN REFLECTOR)

LED	Distribution	Delivered Lumens	Wattage	Efficacy (lm/W)	Control (sold separately)	LED Channels	LED Vf max (V)	LED If max/ch (mA)
P10	W	981	7.5	131	(1) XPD-P2H-G	1	34	225
	M	955	7.5	127		1	34	225
	N	956	7.5	127		1	34	225
P12	W	1251	10	125		1	34	294
	M	1240	10	124		1	34	294
	N	1241	10	124		1	34	294
P18	W	1771	15	118		1	35	433
	M	1772	15	118		1	35	433
	N	1774	15	118		1	35	433
P24	W	2396	20	120		1	34	592
	M	2360	20	118		1	34	592
	N	2295	20	115		1	34	592
P38	W	3795	30	127		1	36	979
	M	3686	30	123		1	36	979
	N	3476	30	116		1	36	979
P60	W	6026	50	121		2	36	1425
	M	6015	50	120		3	36	1425
	N	6020	50	120		4	36	1425

*Angled lens trim

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MULTIPLIER TABLE

	Color Temperature		
	CCT	Lumens	
		Standard	Tunable White
80 CRI	2700K	0.92	0.83
	3000K	0.98	1.00
	3500K	1.00	0.99
	4000K	1.01	1.00
	5000K	1.02	0.98
90 CRI	2700K	0.76	-
	3000K	0.79	-
	3500K	0.82	-
	4000K	0.84	-
	5000K	0.88	-

	Reflector Finish	
	Catalog Number	Conversion Factor
0 Trim	CS	1.00
	SG[1]	0.92
	GD	0.93
	CG	0.96
	PW	0.86
	SPC	1.02
	RG	0.88
	WH[1]	0.89
	BL[1]	0.47
R Trim	WH	1.00
	CS	0.98
	BL	0.79

Trim Options	
Catalog Number	Conversion Factor
F	0.75
S	0.85
AD	0.85
PD	0.85
WET/CC	0.85

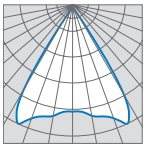
BEAM ANGLE

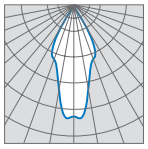
	Trim Type[2]			
	O	F	L	R
W	65°	60°	50°	50°
M	45°	50°	35°	30°
N	10°	25°	25°	25°

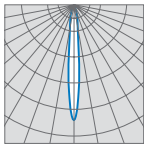
1 Distribution will also be affected, consult factory.
2 Beam angle based on CS or WH Reflector Finish.
- Photometrics tested in accordance with IESNA LM-79. Results based on O Trim Type, W Distribution and CS Reflector Finish, static white 3500K/80 CRI or tunable white 4000K/80CRI, and 25°C ambient temperature. Actual performance may vary +/-5%
- Use multiplier tables to calculate additional options.

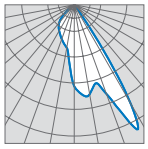
PHOTOMETRY

OPEN (O)

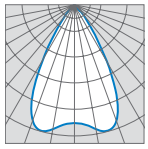

65° Wide


45° Medium


10° Narrow


Wall Wash

OPEN TOP DIFFUSER (F)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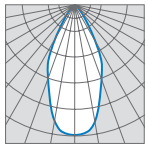
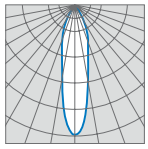
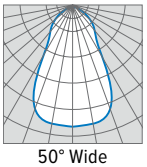
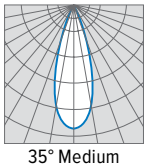
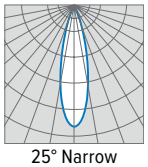

50° Medium


25° Narrow

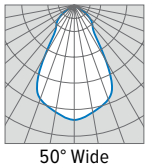
FLUSH (L)

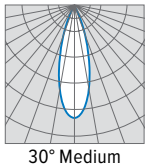

50° Wide

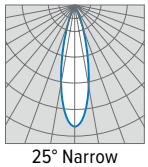

35° Medium


25° Narrow

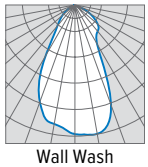
REGRESSED (R)


50° Wide


30° Medium


25° Narrow

ANGLED (A)


Wall Wash

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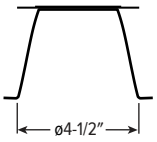
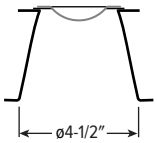
TRIM TYPE DETAILS

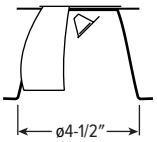
OPEN



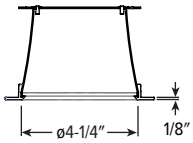
OPEN TOP DIFFUSER



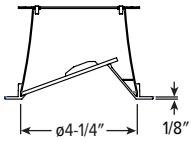
OPEN (WALL WASH)



FLUSH | SHOWER



ANGLED



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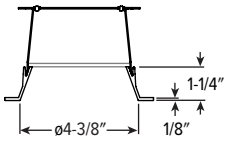
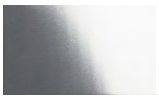


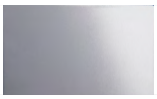
REFLECTOR FINISH DETAILS

SPC Clear specular



SG Satin glow

PW Pewter



GD Gold

CG Champagne gold

RG Rose gold

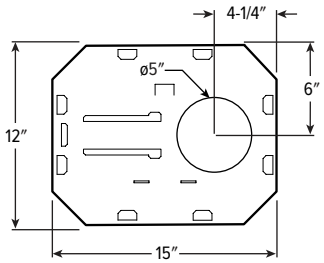
CS Clear semi-specular

WH White

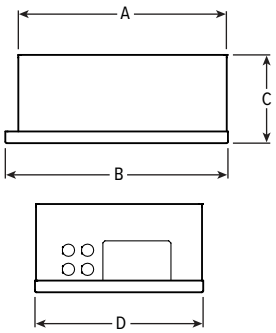
BL Black

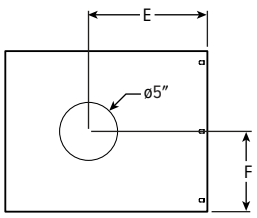
MOUNTING TYPE DETAILS

NEW CONSTRUCTION

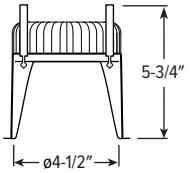


IC-RATED





REMODEL
CROSS SECTION
P15 – P44 lumens shown



	Length					
Lumens	**A**	**B**	**C**	**D**	**E**	**F**
P15	15-3/16″	16″	6-3/8″	12-1/8″	9-1/2″	6-1/16″
P28	16-5/8″	17-1/2″	7-7/8″	14″	10-1/4″	7″

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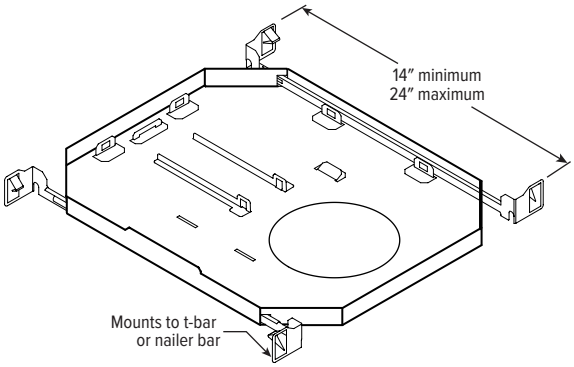
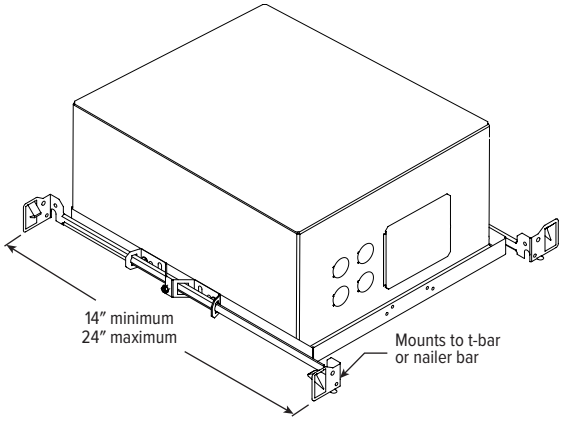
MOUNTING HARDWARE DETAILS

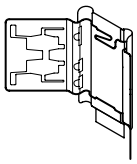
F1 Integral 2-position fixed pan bracket, universal bar hanger included



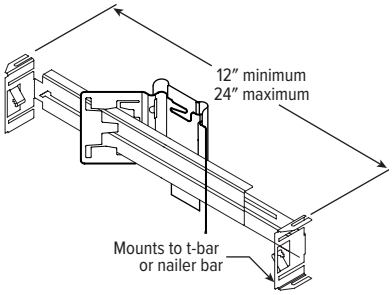


F1 with I Mounting Type

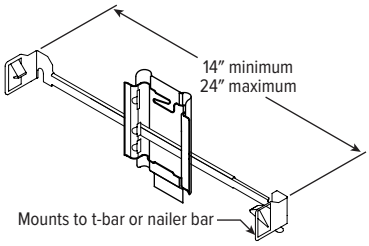
BA1 Adjustable butterfly pan bracket, bar hanger not included (N Mounting Type only)



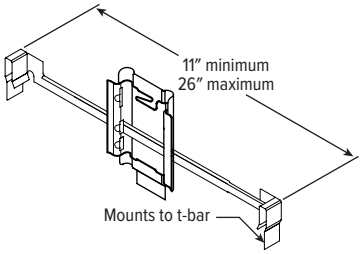
BA2 Adjustable butterfly pan bracket, heavy-duty universal bar hanger included (N Mounting Type only)



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)



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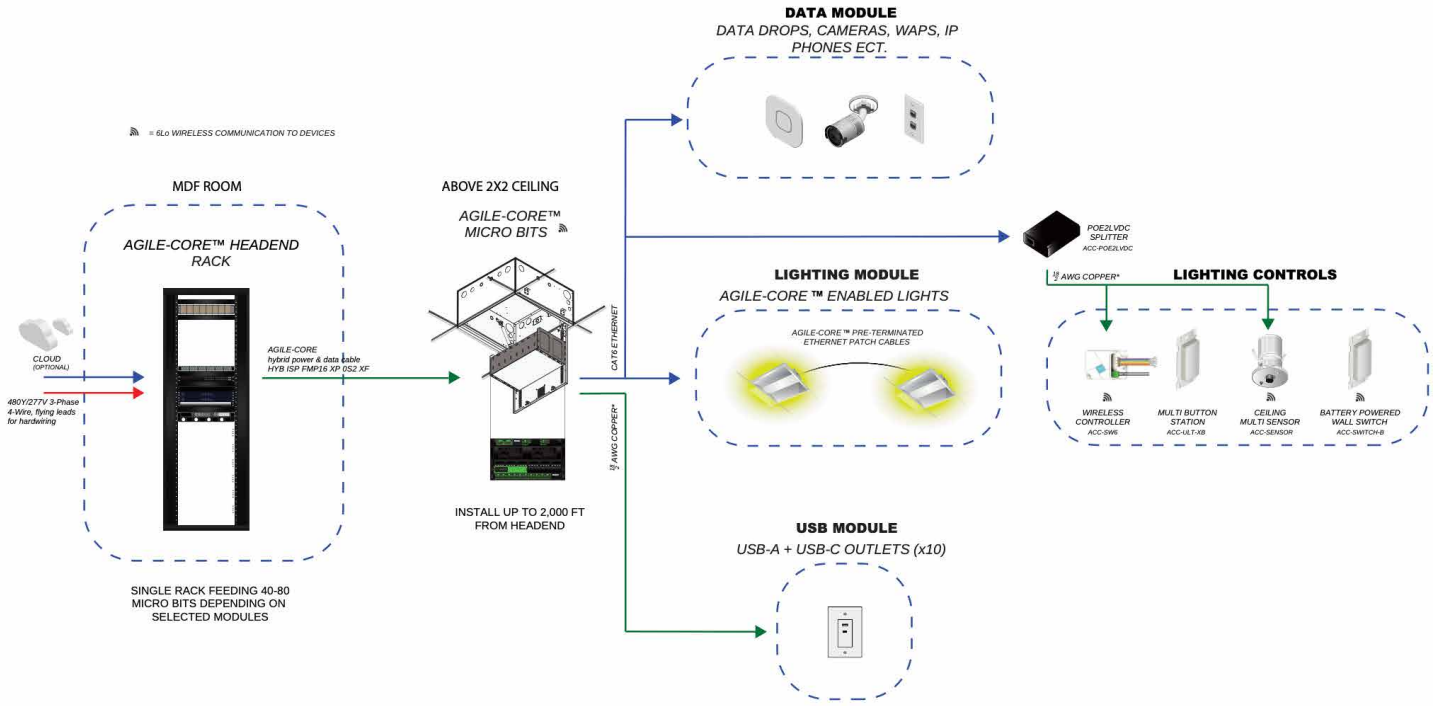
AGILE-CORE POWER DISTRIBUTION AND CONTROL SYSTEM



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