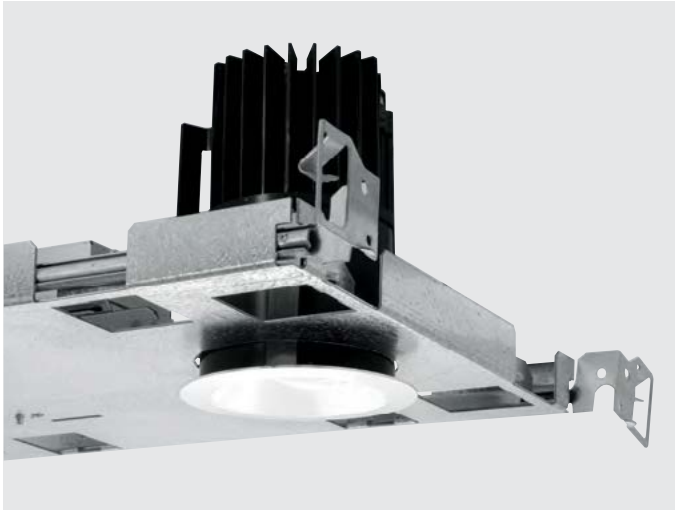
AC 2DR 2″ Downlight - Round

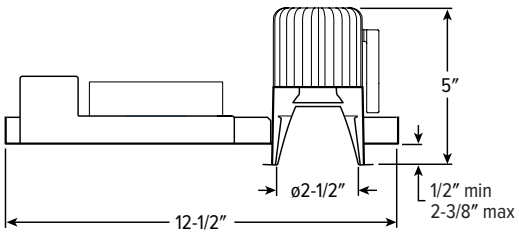
AGILE-CORE®
Distributed Edge Architecture

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	• 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 122 lm/W
- No in-luminaire drivers extending fixture life, using less materials and lowering costs
- Daisy chain multiple fixtures per home run
- 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 2DR L5/835 HE DCC FL LW OF CS N F1

Family	Lumens[1]		/ CRI	CCT	Efficiency	Pwr/Control[2]	Options	Trim Type[6]	Distribution
AC 2DR	L5 **W** 505lm **M** 488lm **N** 398lm **S** 505lm **WW*** 358lm L7 **W** 704lm **M** 680lm **N** 555lm **S** 700lm **WW*** 499lm L12 **W** 1,209lm **M** 1,168lm **N** 954lm **S** 1,215lm **WW*** 857lm	L15 **W** 1,503lm **M** 1,452lm **N** 1,186lm **S** 1,516lm **WW*** 1,066lm L20 **W** 2,009lm **M** 1,941lm **N** 1,586lm **WW*** 1,425lm L25 **W** 2,513lm **M** 2,428lm **N** 1,984lm **WW*** 1,782lm	**8** 80[3] **9** 90	**27** 2700K **30** 3000K **35** 3500K **40** 4000K **50** 5000K **TW** Tunable White (90 CRI, 2700K-5000K)[4]	**HE** high efficiency	**DCC FL** DC constant current w/ flying leads **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]

* Angled lens trim.
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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PERFORMANCE TABLE

2DR-TL (OPEN REFLECTOR)

LED	Distribution	Delivered Lumens	Wattage	Efficacy (lm/W)	Control (sold separately)	LED Channels	LED Vf max (V)	LED If max/ch (mA)
L5	W	505	4	122	DCC	1	33	125
	M	488	4	122		1	33	125
	N	398	4	100		1	33	125
	S	505	6	93		1	33	160
	WW*	358	4	90		1	33	125
L7	W	704	6	117		1	33	180
	M	680	6	113		1	33	180
	N	555	6	93		1	33	180
	S	700	8	87		1	35	230
	WW*	499	6	83		1	33	180
L12	W	1209	12	104		1	34	340
	M	1168	12	97		1	34	340
	N	954	12	80		1	34	340
	S	1215	17	72		1	38	440
	WW*	857	12	71		1	34	340
L15	W	1503	15	103		1	35	420
	M	1452	15	97		1	35	420
	N	1186	15	79		1	35	420
	S	1516	22	69		1	40	550
	WW*	1066	15	71		1	35	420
L20	W	2009	21	97		1	36	575
	M	1941	21	92		1	35	575
	N	1586	21	76		1	35	575
	S				n/a	1		
	WW*	1425	21	68	DCC	1	35	575
L25	W	2513	27	93		1	37	720
	M	2428	27	90		1	35	720
	N	1984	27	73		1	35	720
	S				n/a	1		
	WW*	1782	27	66	DCC	1	35	720

*Angled lens trim

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MULTIPLIER TABLE

	Color Temperature		
	CCT	Single CCT	TW
80 CRI	2700K	0.92	-
	3000K	0.98	-
	3500K	1.00	-
	4000K	1.01	-
	5000K	1.02	-
90 CRI	2700K	0.76	0.87
	3000K	0.79	0.96
	3500K	0.82	1.02
	4000K	0.84	1.00
	5000K	0.88	1.02

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

Trim Options	
Catalog Number	Conversion Factor
F	0.67
AD	0.85
PD	0.85
WET/CC	0.85

BEAM ANGLE

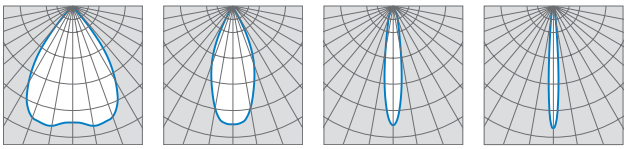
	Trim Type[2]			
	O	F	L	R
W	70°	Consult Factory	50°	55°
M	40°		30°	30°
N	15°		20°	20°
S	8°		14°	14°

1 Distribution will also be affected, consult factory.
2 Beam angle based on CS Reflector Finish.

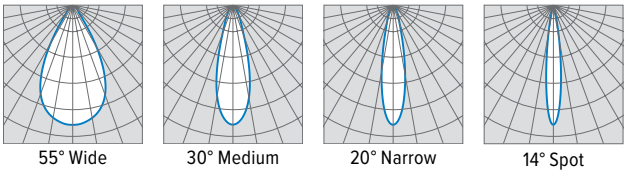
- Photometrics tested in accordance with IESNA LM-79. Results based on CS (O or F trim types) or WH (L, R and A trim types) reflector finish, W distribution and 25ºC ambient temperature. Static white results based on 80 CRI/3500K CCT. Tunable white results based on 90 CRI/4000K CCT. Actual performance 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

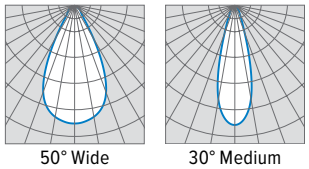
OPEN (O)



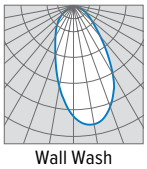
REGRESSED (R)



FLUSH (L)



ANGLED (A)



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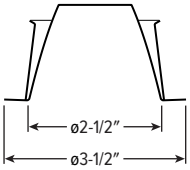
TRIM TYPE DETAILS

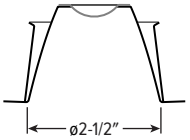
1/2″ STANDARD FLANGE TYPE

OPEN (O)

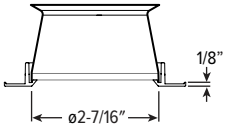


Ceiling Cutout: ø3″

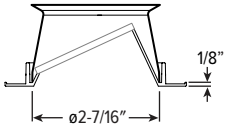
OPEN TOP DIFFUSER (F)



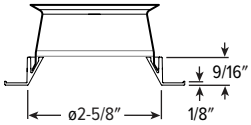
FLUSH (L)



ANGLED (A)

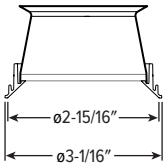


REGRESSED (R)



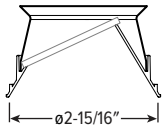
ZERO-FLANGE MUD-IN

FLUSH (L)



Ceiling Cutout: ø4″

ANGLED (A)



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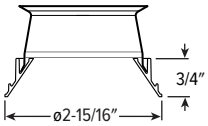
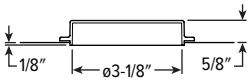
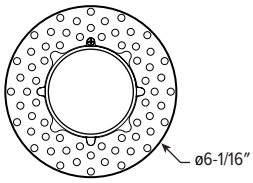


MUD FLANGE MOUNTING KIT





REFLECTOR FINISH DETAILS

SPC Clear specular

SG Satin glow

PW Pewter

GD Gold

CG Champagne gold

RG Rose gold

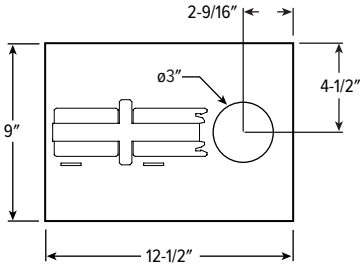
CS Clear semi-specular

WH White

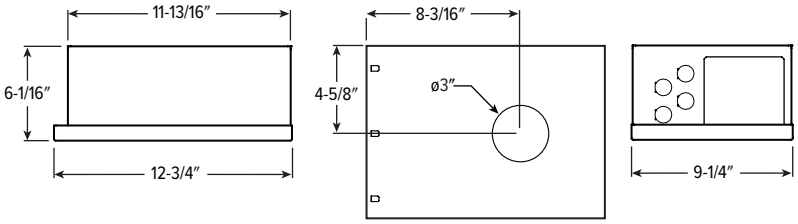
BL Black

MOUNTING TYPE DETAILS

NEW CONSTRUCTION

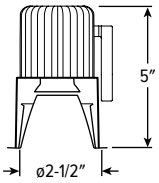


IC-RATED



REMODEL

Cross Section



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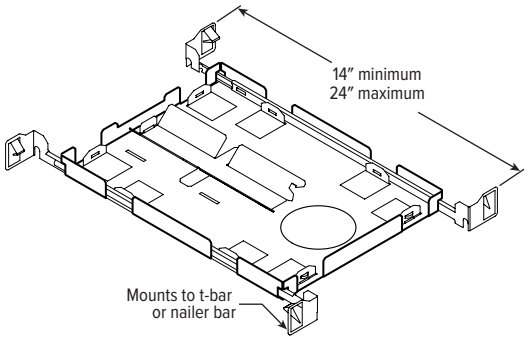
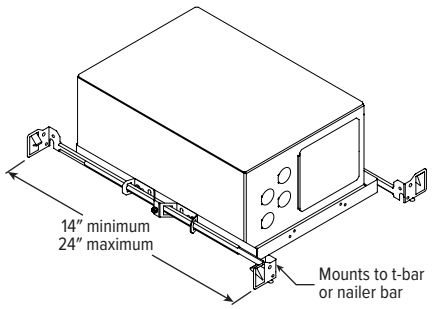
MOUNTING HARDWARE DETAILS

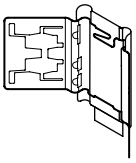
F1 Integral 2-position fixed pan bracket, universal bar hanger included



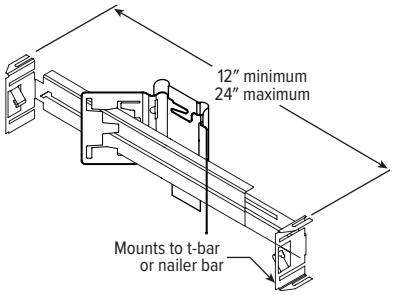


F1 with I Mounting Type

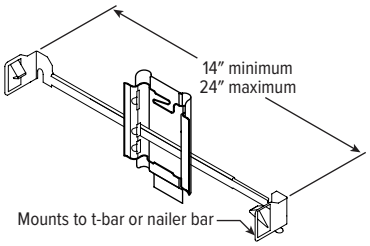
BA1 Adjustable butterfly pan bracket, bar hanger not included (N Mounting Type only)



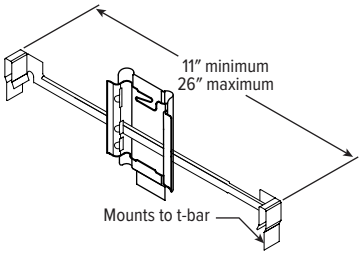
BA2 Adjustable butterfly pan bracket, heavy-duty universal bar hanger included (N Mounting Type only)



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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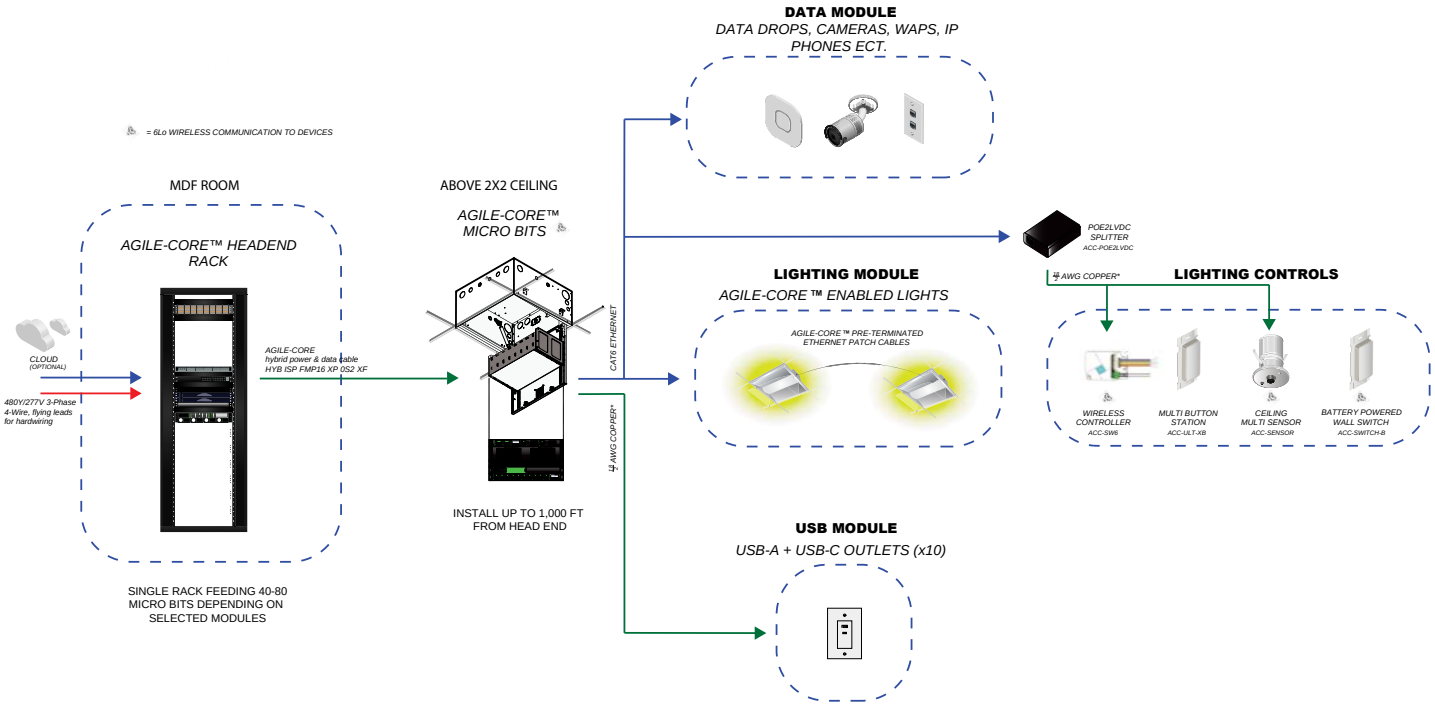
AGILE-CORE®
Distributed Edge Architecture

AGILE-CORE POWER DISTRIBUTION AND CONTROL SYSTEM



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