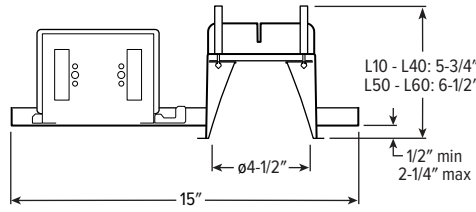


# 4DR LED 4.5" Downlight – Round



CATALOG #: \_\_\_\_\_

TYPE: \_\_\_\_\_

PROJECT: \_\_\_\_\_

## NEW CONSTRUCTION AND REMODEL

### FEATURES

#### TrimLock®

- Innovative TrimLock reflector retention system ensures trim remains flush with ceiling plane
- Industry-leading efficacies as high as 113 lm/W – ENERGY STAR® certified
- Available on QuickShip

### SPECIFICATIONS

- HOUSING** – Die-cast aluminum trim housing with forged aluminum heat sink. Galvanized steel splice compartment with driver mounting plate/enclosure. Swing-out mounting arms field adjust for ceiling thickness from 1/2" – 2-1/4".
- TRIMLOCK** – Innovative TrimLock reflector retention system ensures the trim remains flush with the ceiling plane.
- OPEN REFLECTOR** – Low-iridescent anodized aluminum. Clear semi-specular finish standard.
- LENSED TRIM** – Die-cast aluminum frame with micro-prismatic, acrylic lens.
- ELECTRICAL** – High-performance Class 2 C.O.B. LED array. Modular quick-connect plug for easy field-connection of LED light assembly to driver. Reported L70>55,000 hours. Reported L90>55,000 hours. Estimated L70 = 200,000 hours.
- MOUNTING** – Recessed. 20 ga. galvanized steel mounting pan for new construction or IC-rated enclosure. Remodel kit option includes receiver bracket hardware. Minimum 24" O.C. marked spacing required for L50 and L60 lumen packages.
- LISTINGS** –
  - cCSAus conforms to UL STD 1598; Certified to CAN/CSA STD C22.2 No. 250.0 for damp locations. LED light assembly conforms to UL 2108 for remote installation.
  - Suitable for wet location under covered ceiling when specified with WET/CC or TD options.
  - ENERGY STAR® certified in select configurations, see [www.energystar.gov](http://www.energystar.gov)
  - 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.
  - Title 24 (JA8) compliant in select configurations, see [www.cacertappliances.energy.ca.gov](http://www.cacertappliances.energy.ca.gov).

- WARRANTY** – 5-year limited warranty, see [hew.com/warranty](http://hew.com/warranty).

ORDERING EXAMPLE: 4DR - TL - L20/835 - OPTIONS - DIM - UNV - OW - OF - CS - TRIM OPTIONS - N - F1

### HOUSING

SERIES	LUMENS <sup>[1]</sup>	CRI	CCT	OPTIONS	CONTROL <sup>[2]</sup>	VOLTAGE
4DR - TL	L10 1,000lm <sup>[3]</sup>	8 80	27 2700K	SCA_	DIM	UNV 120-277V
TrimLock	L15 1,500lm	9 90 <sup>[4]</sup>	30 3000K	ATH	DIM1	347 347V <sup>[6]</sup>
	L20 2,000lm		35 3500K	F		
	L30 3,000lm		40 4000K	EM/7W		
	L40 4,000lm		50 5000K	EM/10W		
	L50 5,000lm			EM/10W/RTS		
	L60 6,000lm			CP		
				SDT		

### TRIM<sup>[12]</sup>

TRIM TYPE	DISTRIBUTION <sup>[13]</sup>	FLANGE TYPE	REFLECTOR FINISH	TRIM OPTIONS
O Open reflector	W Wide	OF 1/2" standard flange	Open trim types	MWT Textured white trim flange <sup>[20]</sup>
L Flush lens	65° Open	SF 1/4" mud-in flange <sup>[19]</sup>	CS Clear semi-specular anodize	IP IP65 rated trim <sup>[21]</sup>
R Regressed lens	50° Flush		SG Satin-glow anodize	AD Diffuse acrylic lens <sup>[22]</sup>
A Angled lens <sup>[14]</sup>	50° Regressed		GD Gold anodize	PD Diffuse 1/8" polycarbonate lens <sup>[23]</sup>
S Non-conductive flush lens for shower applications <sup>[15]</sup>	M Medium <sup>[16]</sup>		CG Champagne gold anodize	TD Diffuse polycarbonate lens media at top of open reflector <sup>[24]</sup>
	45° Open		PW Pewter anodize	WET/CC Wet location, covered ceiling listed <sup>[25]</sup>
	35° Flush		SPC Clear specular anodize	AM Anti-microbial <sup>[26]</sup>
	30° Regressed		RG Rose gold anodize	
	N Narrow <sup>[17]</sup>		WH White texture powder coat	
	10° Open		BL Black texture powder coat	
	25° Flush		MB Black texture splay with white flange <sup>[27]</sup>	
	25° Regressed			
	WW Wall wash <sup>[18]</sup>			

### MOUNTING

#### MOUNTING TYPE<sup>[28]</sup>

- N Open pan for new construction
- I IC-rated enclosure for new construction<sup>[30]</sup>
- R Remodel kit<sup>[31]</sup>

#### MOUNTING HARDWARE<sup>[29]</sup>

- F1 Integral 2-position fixed pan bracket, universal bar hanger included<sup>[32]</sup>
- BA1 Adjustable butterfly pan bracket, bar hanger not included<sup>[33]</sup>
- CA1 Adjustable caterpillar pan bracket, universal bar hanger included<sup>[34]</sup>

### NOTES

- Lumen output based on O trim type, W distribution and CS finish, 3500K/80CRI. Actual lumens may vary +/-5%, see page 2 for FIXTURE PERFORMANCE DATA.
- See page 3 for ADDITIONAL CONTROL OPTIONS.
- Not available with EM/10W emergency batteries.
- Extended lead times may apply. Consult factory for availability.
- 9" aperture, specify degrees of slope in 5° increments, 05°-30°. Not available with I Mounting Type, ATH or WET/CC options. Painted white. Other colors available, consult factory. See page 3 for SLOPED CEILING ADAPTOR DETAILS.
- Not available with EM batteries or DMX controls.
- N and R Mounting Types only. Not available with ATH or IP options.
- N and R Mounting Types only. Not available with ATH or IP options.
- Not available with WET/CC, ATH or IP options. N and R Mounting Types only. See page 5 for EM/10W/RTS DETAILS.
- I Mounting Type required.
- May be required for 347V, see product builder at [hew.com/product-builder](http://hew.com/product-builder).
- Trim ships separately.
- Beam angle based on CS or WH reflector finish.
- Available with WW Distribution only.
- W Distribution, OF Flange Type, WH Reflector Finish only. Standard with AD diffuse acrylic lens. IP and WET/CC options standard.
- Not available with lumen stops L50 and higher when specified with flush or regressed trim types.
- Not available with lumen stops L50 and higher when specified with flush or regressed trim types.
- O and A Trim Types only.
- For use with mud-in plaster construction only, supplied with mud flange installation kit. See page 4 for FLANGE TYPE DETAILS. Not available with ATH or IP options.
- Not available with WH Reflector Finish, L or S Trim Types.
- L and R Trim Types only.
- Not available with O trim type. W and WW distributions only.
- O Trim Type only. WET/CC standard unless ordered with EM/RTS. L50 lumen package max.
- L50 lumen package max with O Trim Type. Not available with PD trim option.
- WH and BL Reflector Finishes only. Not available with S Trim Type.
- R Trim Type only. Not available with MWT. Mounting hardware required (N and I only), ordered separately, see MOUNTING HARDWARE ordering info. See page 4 for MOUNTING TYPE DETAILS.
- Additional mounting hardware options available. See page 5 for MOUNTING HARDWARE DETAILS.
- L20 lumen package max. L30 available, wide distribution only for lensed trims.
- Also used in new construction sheetrock ceilings.
- N and I Mounting Types only. I Mounting requires external brackets.
- N Mounting Type only.
- N Mounting Type only.



Available with BIOS® consult factory

# 4DR LED 4.5" Downlight – Round

## FIXTURE PERFORMANCE DATA

	DISTRIBUTION	WATTAGE	OPEN REFLECTOR TRIM TYPE		FLUSH LENS TRIM TYPE		REGRESSED LENS TRIM TYPE	
			DELIVERED LUMENS	EFFICACY (lm/W)	DELIVERED LUMENS	EFFICACY (lm/W)	DELIVERED LUMENS	EFFICACY (lm/W)
L10	W	9.0	1027	113.6	674	74.6	660	73.0
	M	9.0	999	110.5	895	99.0	895	99.1
	N	9.0	1000	110.6	914	101.2	882	97.7
L15	W	13.9	1466	105.8	994	71.7	972	70.2
	M	13.9	1471	106.2	1319	95.1	1319	95.2
	N	13.9	1473	106.3	1347	97.2	1300	93.8
L20	W	19.8	2005	101.0	1352	68.3	1323	66.2
	M	19.8	2002	101.0	1794	90.6	1795	90.8
	N	19.8	2004	101.1	1833	92.6	1769	88.5
L30	W	27.8	2985	107.3	2022	72.7	1979	71.1
	M	27.8	2900	104.2	2683	96.5	2685	96.5
	N	27.8	2734	98.3	2741	98.6	2646	95.1
L40	W	38.0	3979	104.7	2695	70.9	2638	69.4
	M	38.0	3865	101.7	3577	94.1	3579	94.2
	N	38.0	3644	95.9	3654	96.2	3527	92.8
L50	W	45.2	5124	113.4	3364	74.4	3292	72.8
	M	45.2	4956	109.6	-	-	-	-
	N	45.1	4818	106.8	-	-	-	-
L60	W	47.7	6279	131.6	4234	88.8	4143	86.9
	M	47.7	6073	127.3	-	-	-	-
	N	47.7	5903	123.8	-	-	-	-

## MULTIPLIER TABLES

	COLOR TEMPERATURE	
	CCT	CONVERSION FACTOR
80 CRI	2700K	0.92
	3000K	0.98
	3500K	1.00
	4000K	1.01
	5000K	1.02

	COLOR TEMPERATURE	
	CCT	CONVERSION FACTOR
90 CRI	2700K	0.76
	3000K	0.79
	3500K	0.82
	4000K	0.84
	5000K	0.88

TRIM	
CATALOG NUMBER	CONVERSION FACTOR
S	0.85
AD	0.85
PD	0.85
TD	0.75
WET/CC <sup>2</sup>	0.85

	REFLECTOR FINISH	
	CATALOG NUMBER	CONVERSION FACTOR
O TRIM	CS	1.00
	SG <sup>1</sup>	0.92
	GD	0.93
	CG	0.96
	PW	0.86
	SPC	1.02
	RG	0.88
R TRIM	WH <sup>1</sup>	0.89
	BL <sup>1</sup>	0.47
	WH	1.00
	CS	0.98
	BL	0.79

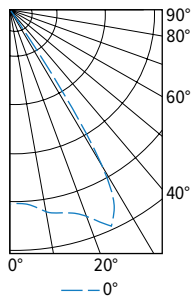
<sup>1</sup> Distribution will also be affected, consult factory.

<sup>2</sup> Use multiplier when specified with O Trim Type.

- Photometrics tested in accordance with IESNA LM-79. Results shown are based on 25°C ambient temperature.
- Wattage shown is based on 120V input.
- Results based on 3500K, 80 CRI, actual lumens may vary +/-5%
- Use multiplier tables to calculate additional options.

## PHOTOMETRY

4DR-TL-L20/835-DIM-UNV-OW-OF-CS Report #: 20685; 12/13/18 | Total Luminaire Output: 2005 lumens; 19.8 Watts | Efficacy: 101.0 lm/W | 83.1 CRI; 3472K CCT

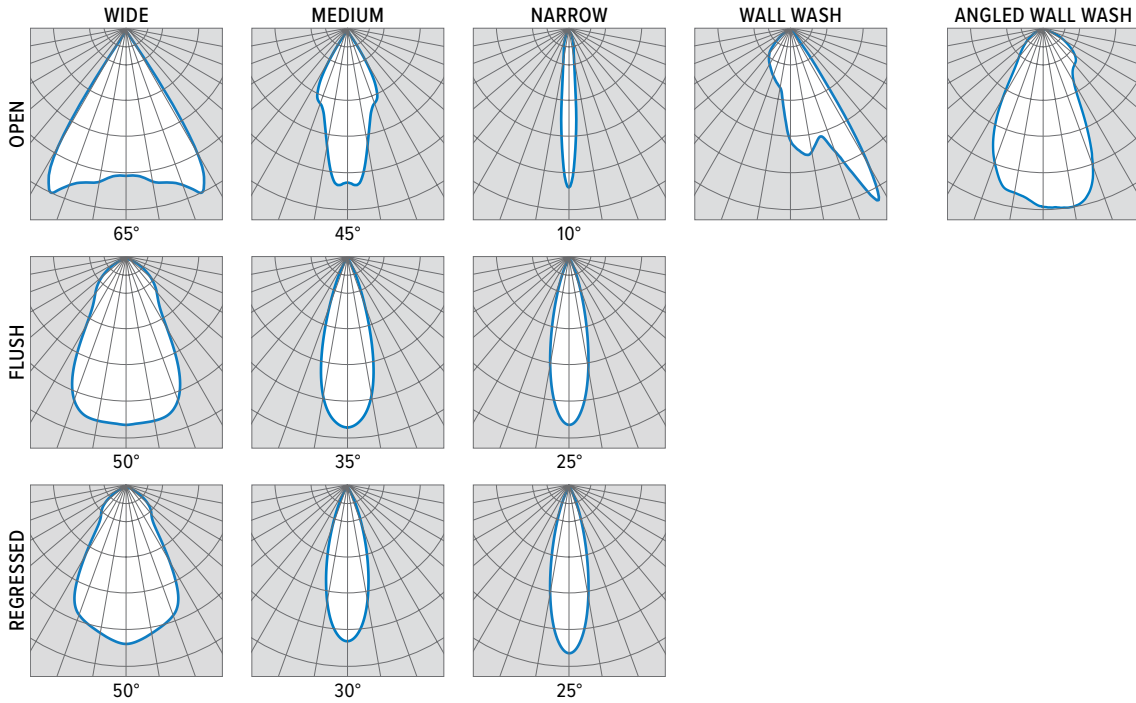


CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE	ZONAL LUMENS
		0°	
	0	1810	
	5	1864	178
	15	1960	556
	25	2231	1033
	35	307	193
	45	44	35
	55	11	10
	65	1	1
	75	0	0
	85	0	0
	90	0	0

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 40	1959	98
	0 - 60	2004	100
	0 - 90	2005	100
	0-180	2005	100



# 4DR LED 4.5" Downlight – Round

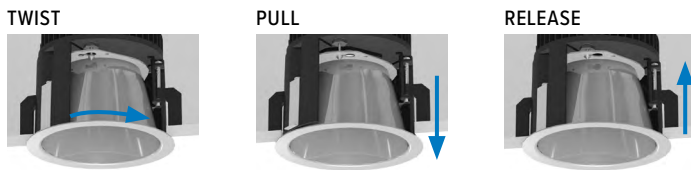


## ADDITIONAL CONTROL OPTIONS

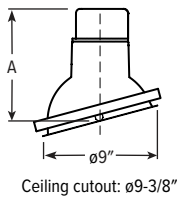
Lumen restrictions apply: L40 max for DMX driver, L40 max for Lutron drivers, L50 max for ELDO drivers, L15 minimum for DIM LINE driver, L60 max for DIM LINE driver. R Mounting Type not available with DMX or FCJS controls. R Mounting Type requires 12" minimum plenum depth when specified with VRF/DBI controls. 347V may require stepdown transformer, see product builder at [hew.com/product-builder](http://hew.com/product-builder). I Mounting Type not available with Lutron controls.

CATALOG NUMBER	DESCRIPTION
DIM	Dimming driver prewired for 0-10V low voltage applications
DIM1	1% dimming driver prewired for 0-10V low voltage applications
DIM LINE	Line voltage dimming driver (TRIAC and ELV compatible at 120V only)
DMX	0.1% dimming driver for DMX controls
LTE LINE	Lutron Hi-lume 1% 2-wire dimming driver forward phase line voltage controls (120V only)
LDE1	Lutron Hi-lume 1% EcoSystem dimming LED driver
VRF/DBI/LDE1	Lutron Vive integral fixture control, RF only (DFCSJ-OEM-RF), Lutron Hi-lume 1% EcoSystem dimming LED driver, and digital link interface
FCJS/DIM	Lutron Vive PowPak wireless fixture control with dimming driver
FCJS/DIM1	Lutron Vive PowPak wireless fixture control with 1% dimming driver
ELDO SOLOB	EldoLED Solodrive, 0.1% dimming driver for 0-10V controls
ELDO SOLOB DALI	EldoLED Solodrive, 0.1% dimming driver for DALI controls
ELDO ECO1	EldoLED Ecodrive, 1% dimming driver for 0-10V controls
ELDO ECO1 DALI	EldoLED Ecodrive, 1% dimming driver for DALI controls

## TRIMLOCK DETAILS



## SLOPED CEILING ADAPTOR DETAILS



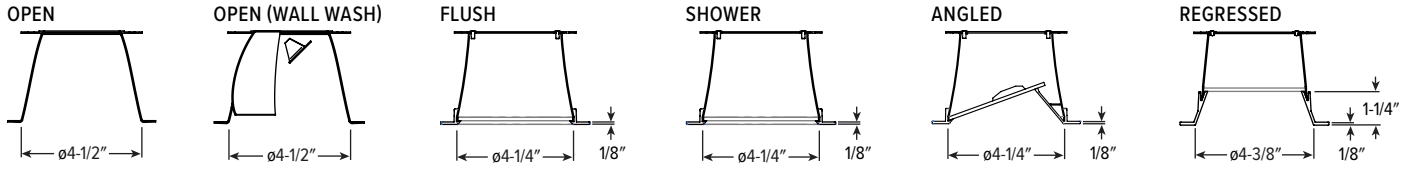
LUMENS	A (HEIGHT)						PLENUM HEIGHT
	5°	10°	15°	20°	25°	30°	
L10 - L30	8-13/16"	8-15/16"	9"	8-15/16"	8-7/8"	8-11/16"	9-1/4"
L40 - L60	9-9/16"	9-11/16"	9-11/16"	9-5/8"	9-1/2"	9-5/16"	10"

15° Shown

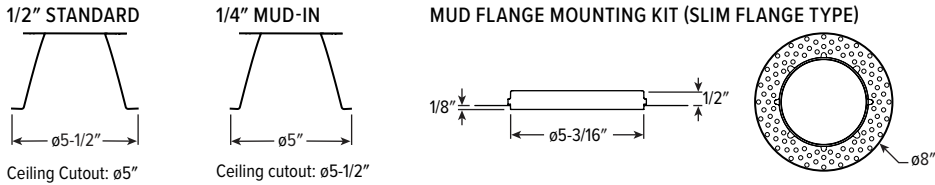


# 4DR LED 4.5" Downlight – Round

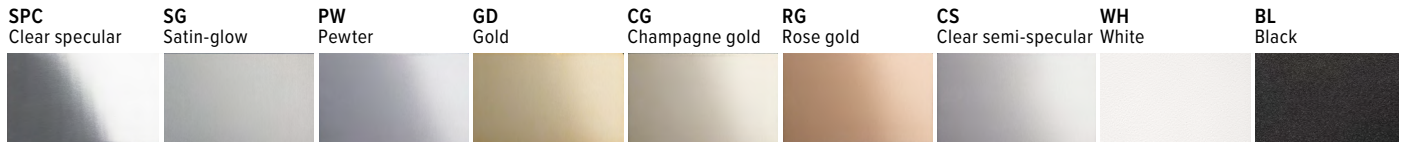
## TRIM TYPE DETAILS



## FLANGE TYPE DETAILS



## REFLECTOR FINISH DETAILS



## MOUNTING TYPE DETAILS

**NEW CONSTRUCTION**

**IC-RATED**

**REMODEL**

**Cross Section**

L10 - L40: 5-3/4"  
 L50 - L60: 6-1/2"  
 $\phi 4\text{-}1/2\text{'}$

**Receiver Bracket**

2-3/4"  
 3-1/4"  
 6-5/8"  
 1-1/8" min space  
 Ceiling cutout

**Driver and Junction Box**

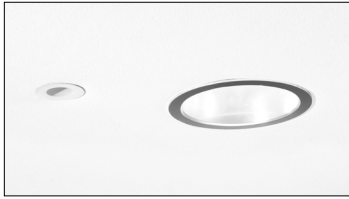
5-1/4"  
 4-1/8"  
 $\phi 6\text{-}15/16\text{'}$

LUMENS	LENGTH					
	A	B	C	D	E	F
L10 - L20	15-3/16"	16"	6-3/8"	12-1/8"	9-1/2"	6-1/16"
L30	16-5/8"	17-1/2"	7-7/8"	14"	10-1/4"	7"

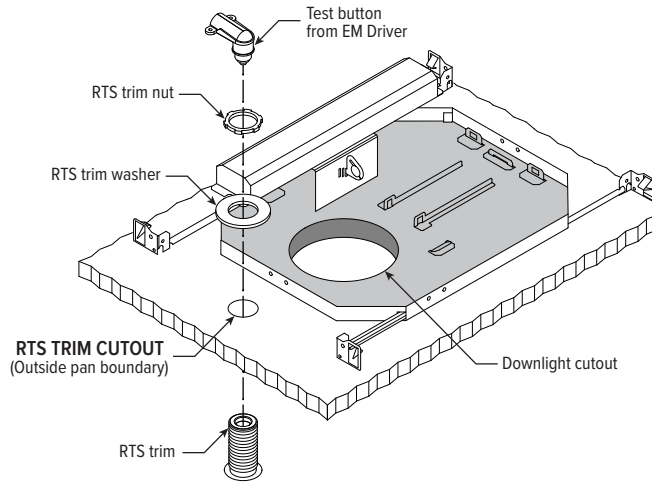


# 4DR LED 4.5" Downlight – Round

## EM/10W/RTS DETAILS

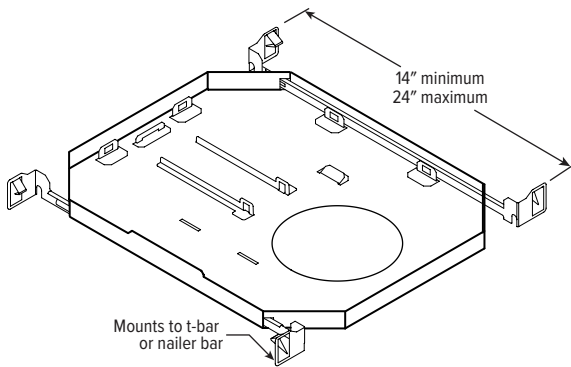


Shown Installed

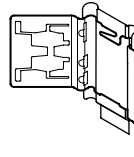


## MOUNTING HARDWARE DETAILS

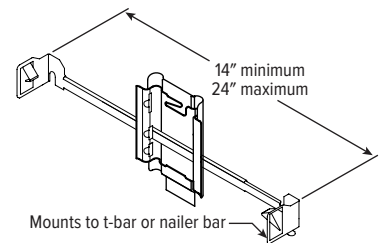
**F1** Integral 2-position fixed pan bracket, universal bar hanger included



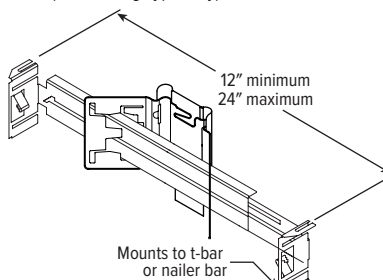
**BA1** Adjustable butterfly pan bracket, bar hanger not included (N Mounting Type only)



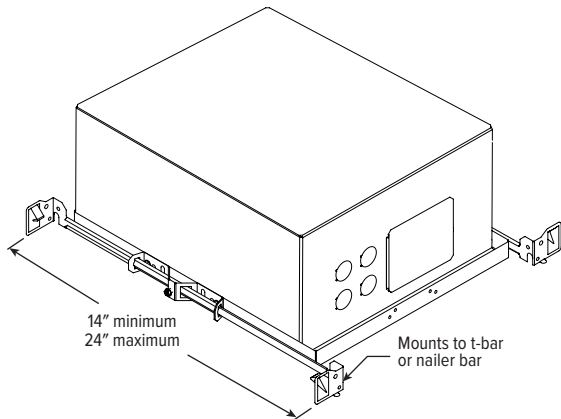
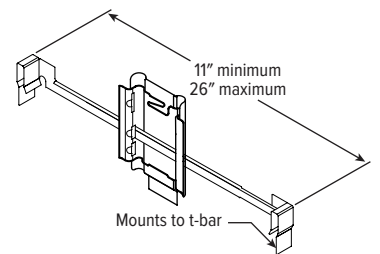
**CA1** Adjustable caterpillar pan bracket, universal bar hanger included (N Mounting Type only)



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



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



F1 with I Mounting Type

