

JOB NAME _____

CONTACT _____

ORDERING CODE _____

NU4" Round Downlight Tunable White



DESCRIPTION

The NU4RD-TW 4" recessed downlight by ALPHABET offers economical and efficient, tunable CCT LED technology from Luminus or Nichia, premium performance, thoughtful construction and pleasing aesthetics. Available with optional Bluetooth controls or standard premium dimming using the EldoLED flicker-free driver with LightShape technology at 120V-277V universal voltage. Several beam angles available, plus an optional high-efficiency BrightView diffused lens for smooth light distribution and obscured LED image. Optional integrated nLight® interface for Acuity Controls compatibility. Optional Casambi interface for Bluetooth® control. DALI and 0-10V compatible dimming.

For the trim version, a minimalistic look is achieved with an ultrathin 1/16" trim that is only 5/16" wide. Color choices of both trim and bezel are offered for a customized look. For the trimless version, a perforated, mud up, regressed trim assembly provides for clean, trim free installation. Perforated mud frame's integrated lip helps guide the joint compound creating a sharp and clean opening.

HOUSING

Electrocoated 16-gauge cold-rolled steel provides enhanced structural reinforcement and rust prevention. Superior, UL-certified, injection-molded commercial-grade Lexan™ (PC) is used for the frame and regressed bezel trim. Lexan provides unmatched durability and impact resistance, and is tested for UV resistance and water exposure in outdoor applications. Alternative high-grade die-cast aluminum alloy trim and bezel that has superior corrosion resistance properties, combined with a smooth aesthetic finish consistently meeting stringent performance criteria. The thermally-advanced, anodized heat sink uses 6063 aluminum alloy. Wet location rated is offered standard.

MOUNTING

An advanced mounting system allows for quick and secure installation with LED and driver serviceability from below the ceiling. The LED assembly uses die-cast aluminum mounting clamp grips (MCG) that swing out to tighten onto variable ceiling thicknesses. Integrated rubber feet on each MCG provide a non-slip vibration-resistant installation. The hidden MCG system is accessible from below ceiling by removing the snap-in lens/bezel assembly with either the included suction cup or a screwdriver blade. Integrated bar hangers feature integral toothed nails, T-bar mounting slots with locking holes, tabs for joist positioning. Retrofit mounting option allows for installation from below ceiling by use of compact driver box. No risk damaging LED or bezel assembly during installation, these are installed during last steps. Fixture and driver are easily removed for servicing after install without damaging drywall.

MOUNTING DIMENSIONS	CEILING THICKNESS	CEILING CUTOUT	New Construction Bar Hangers (included)	Mounting Length: 14-3/4" to 26"
Trim	1/8" to 1-5/8"	4-3/8" diameter	Extension Kit p/n: K20266 (ordered separately, 1 per fixture)	Extends a pair of Bar Hangers Total Mounting Length: 29" to 48"
Trimless	3/8" to 1-3/4"	4-1/2" diameter		
Millwork (Trimless)	1/2" to 1-3/4"	4-3/8" diameter		

LISTINGS

- ETLus Listed to UL1598, cETL Listed to CSA C22.2 #250.0
- IP65 with lens - Suitable for wet locations with lens - Suitable for damp locations without lens
- Non-conductive, Lexan dead-front construction
- Made in the USA - meets the requirements of the Buy American provision within the ARRA

RATINGS / CERTIFICATIONS	NC	RET	IC	ICAT	CP
Type non-IC	✓	✓			
Type IC			✓	✓	✓
Chicago Plenum (CCEA)				✓	✓
Suitable for air handling plenums				✓	✓
Reduced airflow (with lens) ASTM E283	✓	✓	✓	✓	✓

LED INFO

- Luminus tunable white COB: 95 CRI, R9 > 70; SDCM = 4-step MacAdam Ellipse; Lumen Maintenance: L₇₀ > 54,000 hrs
- Nichia tunable white COB: 80 CRI, R9 > 0; SDCM = 3-step MacAdam Ellipse; Lumen Maintenance: L₉₀ > 33,000 hrs

LUMINUS TUNABLE WHITE - ORDERING CODE

SERIES	NU4																									
TYPE	RD	round downlight																								
RDT	round downlight trimless																									
RDM	round downlight metal																									
RDTMW	round downlight trimless millwork																									
LED	TW	Tunable White (Luminus)																								
DELIVERED LUMENS	07LM	625 lm																								
10LM	940 lm																									
13LM	1135 lm																									
16LM	1240 lm																									
20LM	1645 lm																									
Calculated Delivered Lumens = [Delivered Lumen Value] x [CCT Multiplier] x [Reflector Multiplier] Standard Configuration: 3000K HE60																										
CCT	2765	2700K to 6500K tunable white																								
<table border="1"> <thead> <tr> <th>CCT</th> <th>2700K</th> <th>3000K</th> <th>3500K</th> <th>4000K</th> <th>5000K</th> <th>5700K</th> <th>6500K</th> </tr> </thead> <tbody> <tr> <td>CCT MULTIPLIER FOR LUMEN OUTPUT</td> <td>0.91</td> <td>0.98</td> <td>1.00</td> <td>0.99</td> <td>1.00</td> <td>1.01</td> <td>1.02</td> </tr> <tr> <td>EML RATIO²</td> <td>0.49</td> <td>0.57</td> <td>0.68</td> <td>0.79</td> <td>0.96</td> <td>1.04</td> <td>1.12</td> </tr> </tbody> </table>			CCT	2700K	3000K	3500K	4000K	5000K	5700K	6500K	CCT MULTIPLIER FOR LUMEN OUTPUT	0.91	0.98	1.00	0.99	1.00	1.01	1.02	EML RATIO ²	0.49	0.57	0.68	0.79	0.96	1.04	1.12
CCT	2700K	3000K	3500K	4000K	5000K	5700K	6500K																			
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EML RATIO ²	0.49	0.57	0.68	0.79	0.96	1.04	1.12																			
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CCT	1800K	2000K	2400K	2700K	3000K	3500K	4000K																			
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EML RATIO ²	0.21	0.33	0.46	0.53	0.59	0.67	0.73																			
CRI	95	95 typical, 90 minimum																								
REFLECTOR & LM MULTIPLIER	HE45	45° high efficiency diffused lens (0.98)																								
HE60	60° high efficiency diffused lens (1.00)																									
HE80	80° high efficiency diffused lens (0.93)																									
HET30	30° high efficiency textured lens (0.97)																									
HET50	50° high efficiency textured lens (0.97)																									
HET70	70° high efficiency textured lens (0.91)																									
SS30	30° semi-specular with clear lens (0.89)																									
SS45	45° semi-specular with clear lens (0.83)																									
SS60	60° semi-specular with clear lens (0.95)																									
D40	40° diffused with clear lens (0.85)																									
D60	60° diffused with clear lens (0.88)																									
WH70	70° brilliant white with clear lens (0.97)																									
ACCESSORIES	HCL ³	honeycomb louver																								
VOLTAGE	120 UNV	120V 120V-277V																								
DIMMING	CAS NLT	Casambi Bluetooth dimming to 0% nLight control interface: Standard Cat-5/RJ45 connection (female), dimming to 0%																								
DIM10Z ¹	eldoLED flicker free 0-10V dimming to 0%																									
DALIZ	eldoLED flicker free DALI dimming to 0%																									
MOUNTING OPTIONS	NC	new construction with ceiling fitting plate																								
IC	insulation contact housing																									
ICAT	insulation contact/airtight housing																									
CP	chicago plenum housing																									
RET	retrofit, no ceiling fitting plate																									
TRIM COLOR	WH	white																								
MC	matte chrome																									
BK	black																									
BZ	bronze																									
WT	wheat																									
Not applicable to trimless option. Do not include in trimless ordering code.																										
BEZEL COLOR	WH	white																								
MC	matte chrome																									
BK	black																									
BZ	bronze																									
WT	wheat																									

ORDERING CODE

Follow the steps to specify your fixture, example:
NU4 - RD - TW - 13LM - 2765 - 95 - HE80 - 120 - CASZ - NC - WH - WH

LUMINUS (LED)	POWER
DELIVERED LM	W (95 CRI)
625	10
940	15
1135	17
1240	19
1645	25

Power Factor ≥ 0.9

NOTES

1. Requires 2 wall controllers (see wiring diagram).
2. EML = equivalent melanopic lux. To calculate EML, multiply the measured photopic lux by the EML ratio for the given CCT. Example: 254 lux x 0.79 = 200 melanopic lux at 4000K.
3. HCL not available with lens. Multiply delivered lumens by (0.78) and beam spread by (0.80) when honeycomb louver is chosen.

NICHIA TUNABLE WHITE - ORDERING CODE

SERIES	NU4													
TYPE	RD	round downlight												
	RDT	round downlight trimless												
	RDM	round downlight metal												
	RDTMW	round downlight trimless millwork												
LED	TW	Tunable White (Nichia)												
DELIVERED LUMENS	13LM	1050 lm												
	16LM	1300 lm												
	20LM	1600 lm												
	30LM	2400 lm												
	Calculated Delivered Lumens = [Delivered Lumen Value] x [CCT Multiplier] x [Reflector Multiplier] Standard Configuration: 3500K HE60													
CCT	2750	2700K to 5000K tunable white												
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CCT	2700K	3000K	3500K	4000K	5000K									
EML RATIO ²	0.43	0.51	0.63	0.69	0.80									
CRI	80	80+ CRI												
REFLECTOR & LM MULTIPLIER	HE45	45° high efficiency diffused lens (0.98)												
	HE60	60° high efficiency diffused lens (1.00)												
	HE80	80° high efficiency diffused lens (0.93)												
	SS30	30° semi-specular with clear lens (0.89)												
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VOLTAGE	120 UNV	120V 120V-277V												
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	Not applicable to trimless option. Do not include in trimless ordering code.													
BEZEL COLOR	WH	white												
	MC	matte chrome												
	BK	black												
	BZ	bronze												
	WT	wheat												

ORDERING CODE

Follow the steps to specify your fixture, example:

NU4 - RD - TW - 13LM - 2750 - 80 - HE45 - 120 - CAS - NC - WH - WH

NICHIA (LED)	POWER	
	W (80 CRI) 2700K	W (80 CRI) 5000K
1050	15	12
1300	18	15
1600	22	18
2400	35	28

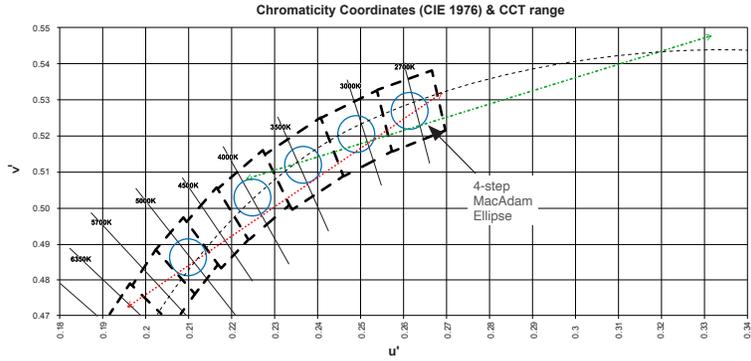
Power Factor ≥ 0.9

NOTES

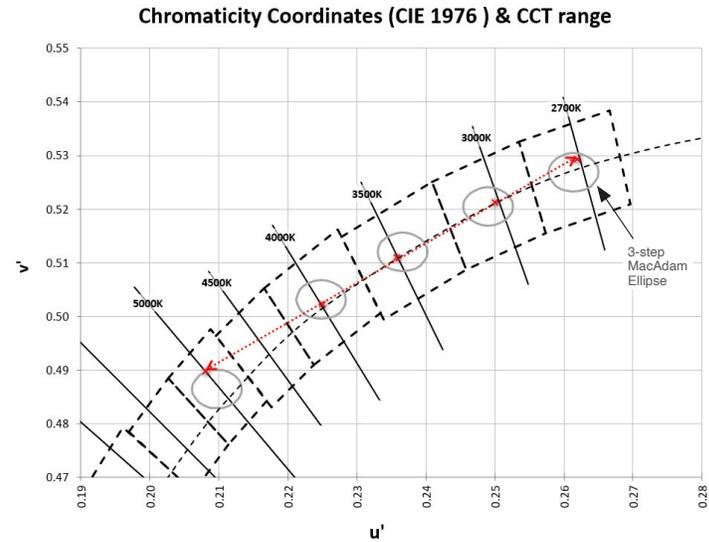
- Requires 2 wall controllers (see wiring diagram).
- EML = equivalent melanopic lux. To calculate EML, multiply the measured photopic lux by the EML ratio for the given CCT.
Example: 290 lux x 0.69 = 200 melanopic lux at 4000K
- HCL not available with lens. Multiply delivered lumens by (0.78) and beam spread by (0.80) when honeycomb louver is chosen.

TUNABLE WHITE

LUMINUS 95CRI

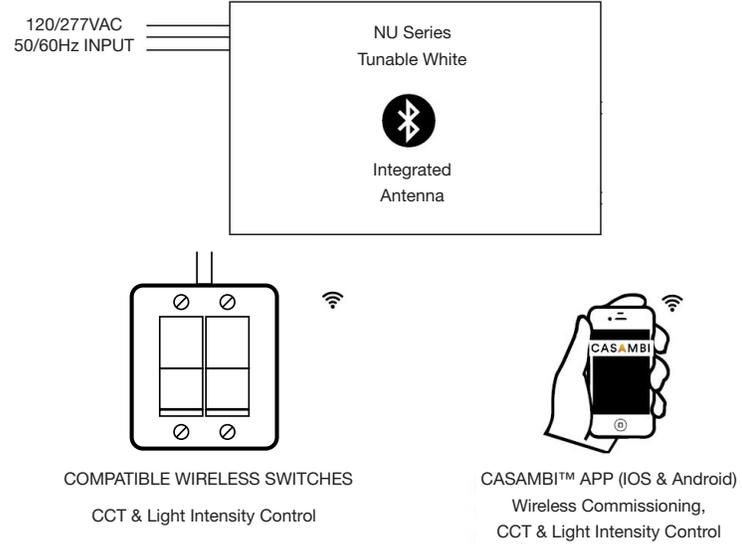


NICHIA 80CRI

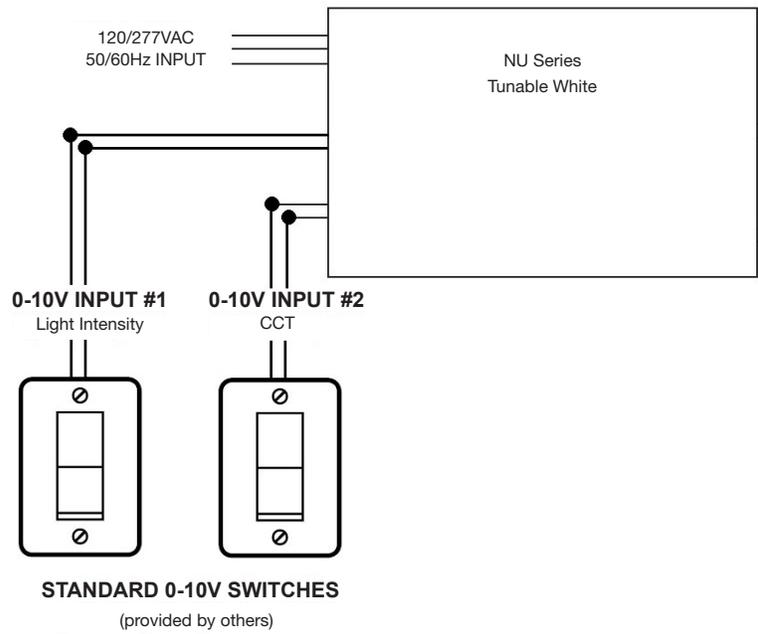


WIRING DIAGRAMS

“CAS” CASAMBI CONTROLS



“DIM10Z” HARDWIRED 0-10V CONTROL

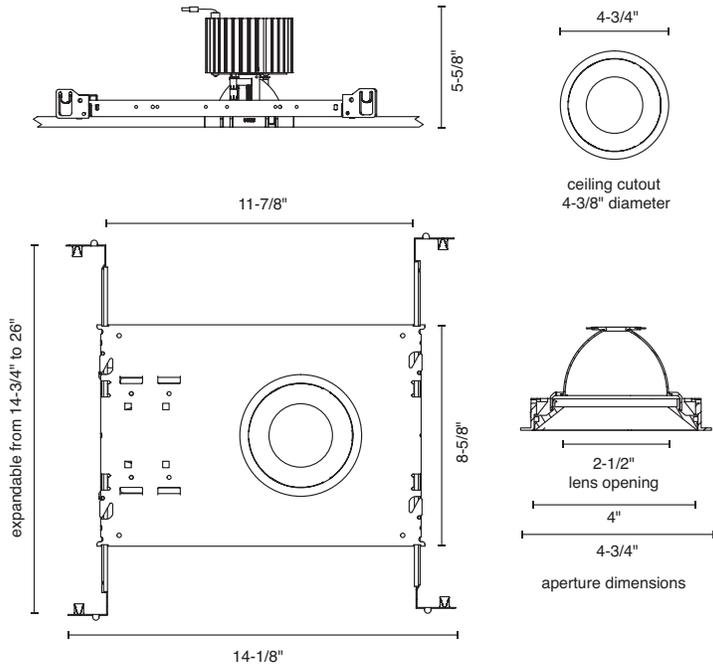


NOTES

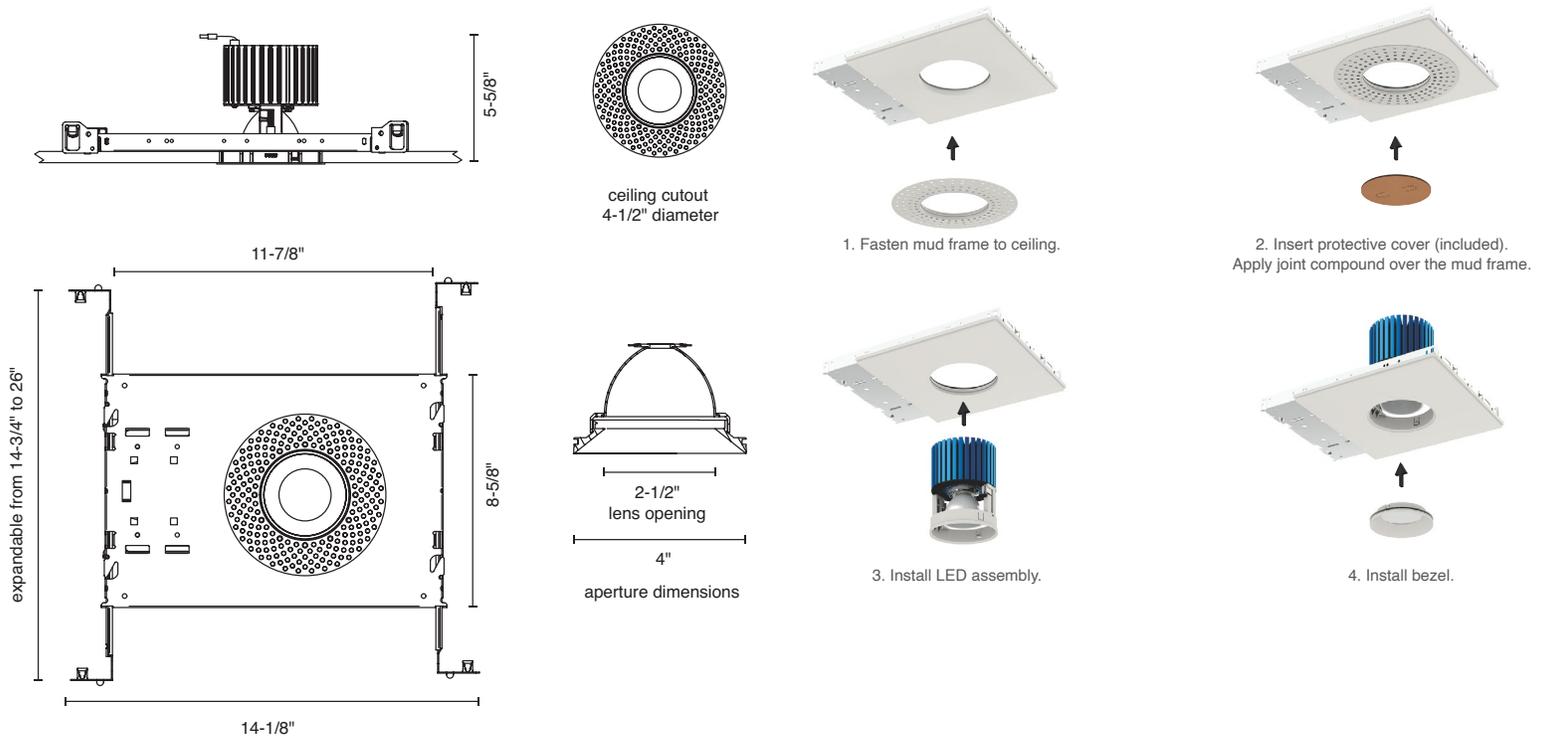
- 1 Consult factory to order compatible wireless switches.

MOUNTING OPTIONS

NC - NEW CONSTRUCTION TRIM

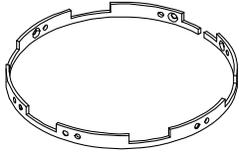


NC - NEW CONSTRUCTION TRIMLESS



MOUNTING OPTIONS (CONTINUED)

RDTMW – MILLWORK TRIMLESS



Millwork Mounting Bracket

NOTES

- 1 Ceiling cutout 4-3/8".
- 2 Millwork Mounting Bracket & Mounting Screws are included with each Luminaire.
- 3 One Plastic Spacer and two C-Clamps are included with each order.
- 4 Refer to Installation Instructions for further details.



1. Insert Millwork Mounting Bracket using the included Plastic Spacer for proper depth positioning.



2. Use the included C-Clamps to temporarily hold the Plastic Spacer in position. Fasten the included wood screws into the Mounting Bracket using a right-angle impact driver (supplied by others).



3. Remove Plastic Spacer.



4. Install Luminaire.

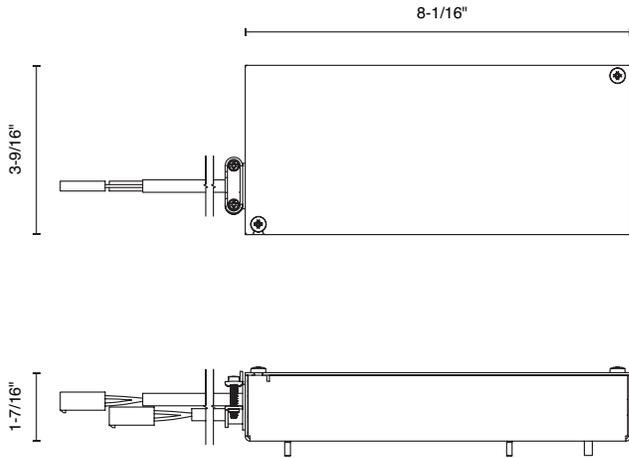


5. Insert Bezel to finish the installation.

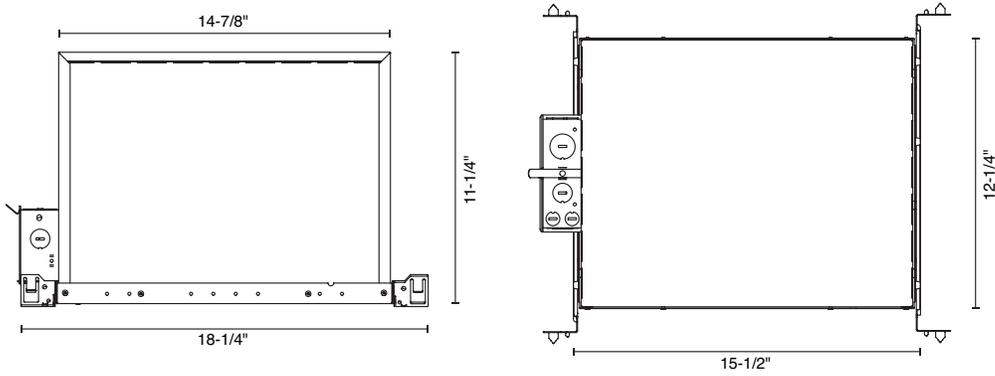


MOUNTING OPTIONS (CONTINUED)

RET - RETROFIT TRIM/TRIMLESS



IC - INSULATION CONTACT HOUSING TRIM/TRIMLESS



CP - CHICAGO PLENUM ICAT - INSULATION CONTACT / AIR TIGHT TRIM/TRIMLESS

