

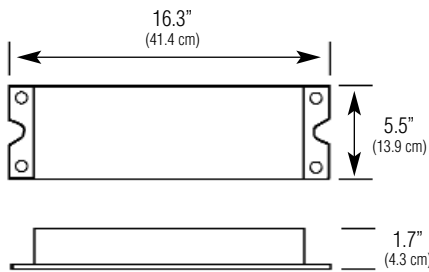
## GENERAL DESCRIPTION

The C3000ST Fluorescent Emergency Ballast converts switched and unswitched fluorescent lighting into code required emergency lighting. The C3000ST may be installed in or near the fixture to provide unobtrusive life safety protection. The C3000ST meets the Buy American requirements.

## ILLUMINATION

The C3000ST provides 90 minutes of emergency illumination by utilizing existing fluorescent lighting and produces a maximum of 3,500 lumens initial emergency light output. The C3000ST can be used with most 17w through 215w (2'-8') T8, T9, T10, or T12 fluorescent lamps without integral starters, including U-shaped, HO, VHO, circline, energy saving, and 4-pin twin, quad, and triple twin-tube compacts. The C3000ST is also compatible with most 1, 2, 3 and 4-lamp electronic, standard, energy saving and dimming AC ballasts. See lamp operation for specific lamp types.

## DIMENSIONS



Dimensions are approximate and subject to change.

# C3000ST

## Fluorescent Emergency Ballast

### For One or Two Lamp Operation with Self Diagnostics

### 3500 Lumen Maximum Output



SHOWN: C3000ST

## HOUSING

Housing is constructed of 20 gauge steel with a high temperature white powder coat paint finish.

Slim housing allows for housing frame mounting on most recessed luminaires.

## ELECTRONICS

120/277 VAC dual voltage input with surge protection, solid-state charging circuitry provides for a reliable charging system.

Charging system is complete with AC indicator lamp and test switch.

## BATTERY

Maintenance free, sealed nickel cadmium battery

Supplies 90 minutes of emergency power

Estimated service life of 10 years

Operating temperature range of 32°F (0°C) to 131°F (55°C)

## LAMP OPERATION<sup>1</sup>

Operates the following lamp types<sup>2</sup>:

T8 Linear Fluorescent

T12 Linear Fluorescent

T9 Circline

T12 U-Bent Fluorescent

T5 Long Compact Fluorescent

Compact 4 Pin Fluorescent

## NOTES:

1) Consult factory for compatibility and performance of product with lamp types not listed.

2) See Table 1 for specific lamp performance and operation

## SELF-DIAGNOSTICS

Diagnostic circuit constantly monitors battery voltage and charging current, and will communicate a fault by flashing the status indicator lamp.

An automatic discharge test is also performed for 30 seconds every 30 days, and for 90 minutes every 12 months.

Automatic test satisfies the functional period test required by NFPA 101.

## CODE COMPLIANCE

UL 924 listed

NFPA 70 and NFPA 101, NEC, BOCA, OSHA and IBC illumination standards

## ELECTRICAL SPECIFICATIONS

Input power requirements

8.0 watts max.

## WARRANTY

Five year full electronics warranty

Five year full battery warranty

## ORDERING INFORMATION (EXAMPLE: C3000ST)

C3000ST

FLUORESCENT EMERGENCY  
BALLAST

C3000ST = 3,500 Lumen Max. Output  
Fluorescent Emergency Ballast  
for One or Two Lamp Operation

OPTIONS

EX = Special Input Transformer  
(Specify voltage and frequency)

### ACCESSORIES (order as a separate line item)

RTS = Remote Test Plate

RTS2 = Remote Test Switch & Pilot Light Kit  
(includes plate)

# Specification Data for C3000ST Fluorescent Emergency Ballast

## HOUSING

Housing is constructed of 20 gauge metal with a high temperature powder coat paint finish.

Slim housing allows for housing frame mounting on most recessed luminaires.

## ELECTRONICS

Dual voltage 120/277 VAC input is standard.

An indicator light and test switch are available to signify that AC utility is present, and periodically transfer to emergency operation.

Battery charging circuitry is entirely solid-state, and of a constant voltage design. Battery recharge time after a complete discharge is less than the required UL 924 standard.

Solid-state circuitry causes an instantaneous transfer to battery power if either the loss of AC utility, or a brownout condition is detected. When line voltage is present and stabilized, the transfer circuitry switches back to normal operation and begins recharging the battery. The transfer circuitry can be tested via a momentary test switch installed on the luminaire, or in a remote location.

## BATTERY

Sealed, maintenance free nickel cadmium battery is equipped with a quick connect plug assembly for easy installation.

Standard sustained emergency operation is for 90 minutes with the illumination source providing full light output.

The suggested operating temperature range for nickel cadmium batteries is of 32°F (0°C) to 131°F (55°C) and should provide a service life of 10 years.

## ELECTRICAL SPECIFICATIONS

Input power requirements  
8.0 watts max.

## CODE COMPLIANCE

The C3000ST meets or exceeds all performance standards as required by UL 924, NEC, NFPA 70, NFPA 101, NEC, BOCA, OSHA and IBC.

## LAMP OPERATION AND PERFORMANCE

**Table 1**

LAMP TYPE	WATTAGE	BASE TYPE	NON-EMERGENCY MAX. LUMEN OUTPUT	EMERGENCY OP. MAX. LUMEN OUTPUT	EMERGENCY LAMP OPERATION
F40T12	40	G13/Med Bi-Pin	2650	2650	One or Two
F96T12	75	FA8/Single-Pin	5500	2800	One
F48T12HO	60	R17D/Recessed	4050	3000	One
F96T12HO	95	R17D/Recessed	8000	2900	One
F96T12VHO	215	R17D/Recessed	13500	2900	One
F25T8	25	G13/Med Bi-Pin	2080	2250	One or Two
F32T8	32	G13/Med Bi-Pin	2850	3000	One or Two
F40T8	40	G13/Med Bi-Pin	3600	3000	One
F96T8	59	FA8/Single-Pin	5800	3000	One
F39/36BX	39	2G11/4--Pin	2850	2850	One or Two
F40/30BX	40	2G11/4--Pin	3150	1800	One
F42TBXT4	42	G24Q-3/4-Pin	3200	3200	One or Two

### NOTES:

- 1) Maximum non-emergency lumen output can vary based on lamp manufacturer, ambient operating temperature, and ballast manufacturer.
- 2) Maximum emergency lumen output is based on total output of one or two lamps, and can vary based on lamp manufacturer and ambient operating temperature.
- 3) Maximum emergency lumen output is supported for a full 90 minutes of operation.
- 4) Consult factory for compatibility, operation and performance of lamp types not listed.

## SUGGESTED SPECIFICATION

Furnish and install Chloride's fluorescent emergency ballast model C3000ST. The unit shall be constructed to meet Underwriter's Laboratories, Inc. Standard #924 and the National Electrical Code (NEC).

**INSTALLATION AND OPERATION** - Unit shall be easily field connected to a 120 or 277 VAC, 60 hertz, unswitched power source. Installation must comply with the NEC as well as other applicable codes. Upon utility power failure or brownout, the unit shall automatically transfer to battery power and maintain the required illumination for a minimum period of 90 minutes. Upon restoration of utility power, the charger shall restore the battery to full charge within UL 924 requirements following a rated discharge of not more than 90 minutes.

**CHARGER** - Unit shall utilize a solid-state, constant current charging system which will maintain the battery at full capacity without the need for periodic exercising or equalization.

**BATTERY** - The battery shall be a maintenance free, nickel cadmium battery. The nickel cadmium battery shall utilize sintered plate construction and polypropylene separators for trouble-free operation in ambient temperatures up to 131°F (55°C). Nickel cadmium batteries shall be supplied with a five year full warranty.

**ENCLOSURE** - The housing shall be constructed of 20 gauge steel with a high temperature powder coat paint finish. The slim housing shall allow for housing frame mounting on most recessed luminaires.



**CHLORIDE**  
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