

TECHNICAL BRIEF



**FLUORESCENT
 EMERGENCY BALLASTS:
 2-HOUR OPERATION FOR TORNADO
 SAFE ROOMS**

Emergency lighting for Tornado Safe Rooms require a two hour minimum of emergency operation to meet FEMA requirements. While IOTA Emergency Ballasts are typically used for 90-minute runtimes per the Life Safety Code, select emergency ballast and lamp combinations will achieve the two-hour run-time.

Refer to the chart below for available two-hour run-time options:

Lamp Type	IOTA EM Ballast	EM Operation	Lamp Selector Leads*
28W T8	ISD-80	One Lamp	Connect VIOLET Leads
32W T8	I-48	One Lamp	Disconnect VIOLET Leads
	I-320	One Lamp	Disconnect VIOLET Leads
	I-160	One Lamp	Connect BRN/WHT and VIO
	ISD-80	One Lamp	Connect VIOLET Leads
28W T5	ISD-80	One Lamp	Disconnect VIOLET Leads
54W T5	I-160	One Lamp	Connect BRN/WHT and VIO
	ISD-80	One Lamp	Disconnect VIOLET Leads
32W 4-Pin CFL	I-420	One Lamp	Disconnect VIOLET Leads

*IOTA Emergency Ballasts are equipped with Lamp Selector Leads for optimizing performance when operating specific lamps. Connect or disconnect the Lamp Selector Leads as required for your application. Cap any unused leads separately.

For more information regarding IOTA products for FEMA applications, contact our Customer Service team at 1-800-866-4682 or visit the FEMA website at www.fema.gov.

The FEMA criteria regarding safe room occupancy can be found in Chapter 8 of FEMA's **Design and Construction Guidance for Community Safe Rooms** Section 8.2.1, Section 8.8, and Section 8.10.