



## SAMPLE SPECIFICATION

Emergency lighting shall be provided by using a standard fluorescent fixture equipped with an **IOTA ISD-420-EM-B** self-diagnostic fluorescent emergency battery pack. The **ISD-420-EM-B** shall be designed to automatically test the emergency lighting capability for no less than 30 seconds monthly and 90 minutes annually, and shall monitor lamp frequency, battery charge and battery discharge current. An audible alarm and light-emitting LED shall be provided to indicate test results and charge status. The **ISD-420-EM-B** shall consist of a high temperature, maintenance-free nickel cadmium battery, charger board and an electronic circuit enclosed in a 13 1/8" x 2 3/8" x 1 1/2" vandal-resistant galvanized steel case for installation either inside the wireway or on top of the fixture. A combination one piece test switch and long-life LED charge indicator light for monitoring charger, inverter, battery, and fault conditions shall be included. The fluorescent EM pack shall operate one 10w-70w or two 10w-32w 4-pin rapid start compact fluorescent lamps. The **ISD-420-EM-B** shall provide reduced illumination for a minimum of 90 minutes in the emergency mode with a total initial output of 1300 lumens and will feature lamp selector leads for optimizing light output for the designated lamp type. The **ISD-420-EM-B** shall have 4 watts of input power and a battery capacity of 24 watt hours. The **ISD-420-EM-B** is U.L. Listed and meets or exceeds all NEC and Life Safety Code Emergency Lighting Requirements. The **ISD-420-EM-B** is warranted for a full five (5) years from the date of purchase.

### OPTIONS

#### TEST CONFIGURATION

LPTS

#### SPECIALTY

DL - SUITABLE FOR USE IN DAMP LOCATIONS AND ENCLOSED AND GASKETED FIXTURES.

#### VOLTAGE RATINGS

UNIVERSAL VOLTAGE 110-277V, 50-60HZ

### AVERAGE LUMEN RATINGS

LAMP	1 LAMP	2 LAMPS
13W PL CF 4-PIN	600	675
18W PL CF QUAD 4-PIN	600	950
26W PL CF QUAD 4-PIN	725	1200
32W PL CF QUAD 4-PIN	1050	1250
42W PL CF QUAD 4-PIN	1300	
57W PL CF QUAD 4 PIN	1160	
70W PL CF QUAD 4-PIN	1200	
F282 D/42 4-PIN	800	850
F382 D/42 4-PIN	850	1125

### DIAGNOSTIC CODES

LED IS <b>RED</b> WHEN CHARGING, <b>GREEN</b> WHEN READY		
<b>CHARGE FAILURE</b>	1 BEEP	1 FLASH
<b>BATTERY FAILURE</b>	2 BEEPS	2 FLASHES
<b>LAMP FAILURE*</b>	3 BEEPS	3 FLASHES
<b>INVERTER FAILURE*</b>	4 BEEPS	4 FLASHES

FAILURE CODES OCCUR ONCE EVERY 15 SECONDS WITH 1 SECOND DELAY BETWEEN CODES IN INSTANCES OF MULTIPLE FAILURE

\* IF FAILURE, REPLACE LAMP AND RETEST

### REMOTE MOUNTING

When battery packs are remote mounted, the remote distance can not exceed 1/2 of the distance from ballast to lamp specified by the A.C. ballast manufacturer. For example, if the A.C. ballast manufacturer recommends no more than 25' remote distance, then the battery pack should not exceed 12 1/2'. The maximum allowable remote mounting distance is 50' from the lamp.