

Pluraluce® Surface Compact Surface Mounted LED Battery Unit



Job/Location: _____

Contractor: _____ Prepared By: _____

Model Number: _____ Date: _____



EXTERNAL SPECIFICATIONS

The compact design of the **PLURALUCE®** has a modern look that blends seamlessly in today's retail and commercial environments. The aluminum cover comes standard in a white powder coat with optional painted or brushed finishes. Housing design acts as a large heat sink ensuring efficient thermal management and long operating life of the LEDs. An external test switch allows maintenance personnel to quickly perform testing and determine the operational status by way of a multi-coloured diagnostic LED.

INTERNAL SPECIFICATIONS

The **PLURALUCE®** series is configured with two-wire 120-347VAC 60 Hz input. Solid state microprocessor controlled circuitry also includes brownout protection, battery and charge circuit monitoring, LED failure detection and reverse polarity protection. Ni-MH batteries are standard. CSA 22.2 No. 141-15 Performance Certified.

LED TECHNOLOGY

The **PLURALUCE®** is illuminated with four 2.5W LEDs. Under any operation, the **PLURALUCE®** delivers between 782 lm - 845 lm. Each pair of LEDs are laid out in parallel on the LED module so if one pair fails, the other will remain illuminated. A high-efficiency LED driver is used to maintain a constant output current to all LEDs. The LEDs are rated for >54,000 hours at L80.

BATTERY TECHNOLOGY

The **PLURALUCE®** EM and ACEM versions come standard with a Ni-MH battery pack that provides a minimum of 30 minutes emergency duration. Optional 90 or 120 minute Ni-MH batteries are available. The maximum battery operating temperature is +40°C and the minimum is +10°C.

INSTALLATION

The **PLURALUCE®** is suitable for surface wall or ceiling mounting on a junction box or suspended by a pendant kit and the unit has knockouts on the side for conduit entry.

ORDERING INFORMATION

Series	Operation	Voltage	Options
PL	EM (Emergency / AC fail only)	120-347V	AT (Auto-test)
	AC (Normally on)		90SP (90 min. emergency)
	*ACEM (Normally on / EM backup)		120SP (120 min. emergency)
			CC (Custom Colour - specify)
			BA (Brushed aluminum finish)
			TP (Tamper proof screw)

NOTE: Unswitchable

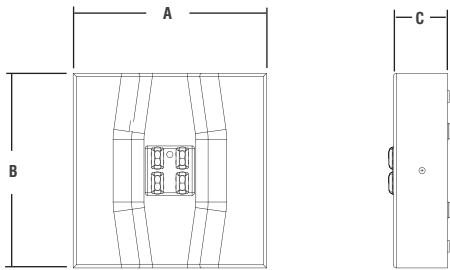
EXAMPLE: PL-AC-120-347V

DESCRIPTION: Pluraluce® surface mount, normally-on mode, 120-347VAC



INDOOR ARCHITECTURAL EMERGENCY

DIMENSIONS (MM, IN.)



Series	A	B	C
PL	156mm	157mm	44mm
	6 1/8"	6 3/16"	1 3/4"

LENSES

The **PLURALUCE®** surface is supplied with 3 lenses for a choice of distribution patterns. These custom designed lenses are constructed of optical grade polycarbonate. The symmetrical ceiling distribution is suitable for use in open areas with spacing of up to 28' on centre. The asymmetrical ceiling distribution is designed for use in hallways and corridors with spacing of up to 55' on centre. The asymmetrical wall distribution provides 35' on centre with a 6' wide path of egress. For AC and ACEM operations frosted lenses are provided.

CHARGER SPECIFICATIONS

The **PLURALUCE®** series utilizes a high-efficiency two stage charger providing precise float voltage control with low voltage disconnect protection. Program controlled trickle charge current is provided by the charging unit in order to maintain the optimum performance of the Ni-MH battery. All components used in the circuitry are temperature compensated. The charger also has brownout and short circuit protection. Charger status is easily determined via a multi-coloured diagnostic LED indicator which displays AC/ON and High Charge. An external push button test switch allows maintenance personnel to quickly activate any manual tests on the fixture.

AC INPUT RATINGS

Operation	Voltage (VAC)	Wattage (W)	Rated Current (A)
AC Only	120/277/347	13.0/13.1/13.4	0.25/0.15/0.10
ACEM	120/277/347	17.3/17.0/17.1	0.35/0.25/0.15
EM	120/277/347	4.5/5.0/5.1	0.15/0.10/0.05

BEGHELLI AUTO-TEST (AT)

The Beghelli auto-test system automatically performs one 5 minute discharge test monthly and every 6 months it performs two full discharge tests, 24 hours apart. This tests both full battery capacity and recharge capability. The information is communicated simply and intuitively to maintenance personnel via a single multi-colour LED.

A manual Test feature is included when the Auto-test option is selected. The manual test will run a 30 second, 15 minute or 90 minute test by pressing the correct sequence of the test switch.

OPERATION

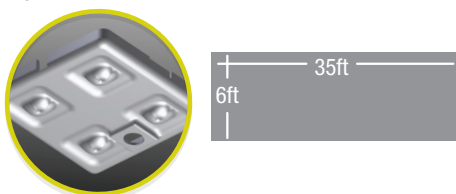
The **PLURALUCE®** is available with a choice of operations; EM, ACEM and AC. They have all achieved a truly universal AC input with a voltage design of 120 to 347VAC. EM & ACEM come with Ni-MH batteries and optional Auto-test and self-diagnostics circuitry. Under the EM operation, the unit is normally-off and will illuminate under an AC failure only. Under AC only operation, the unit is normally-on and does not illuminate under an AC failure. ACEM is normally-on under normally utility power and the charging circuit maintains the battery at full capacity. When AC power fails the unit will automatically provide emergency light.

FCC

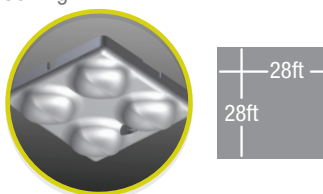
This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

LENS DISTRIBUTION PATTERNS

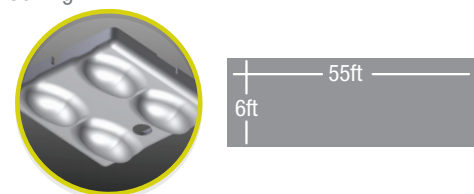
Wall:



Ceiling:



Ceiling:



Reflectancies are 80 x 50 x 20, measurements are not to scale