

PLURALUCE® SQUARE RECESSED



Job: _____
Model: _____

Type: _____
Date: _____



■ internal

The **PLURALUCE® SQUARE RECESSED** is configured with two-wire 120-347VAC 60Hz input. Microprocessor controlled circuitry also includes brownout protection, battery and charge circuit monitoring, battery and LED failure detection and reverse polarity protection. Ni-MH batteries are standard.

■ external

The compact, recessed design of the **PLURALUCE SQUARE RECESSED** has a modern look that blends seamlessly in today's retail and commercial environments. The steel trim comes standard in a white powder coat with optional painted finishes. An external test switch allows maintenance personnel to quickly perform testing and determine the operational status by way of a multi-colored diagnostic LED.

■ LED technology

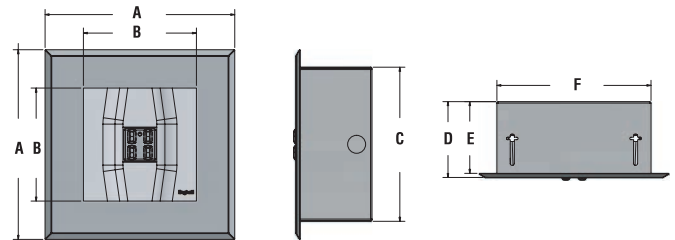
The **PLURALUCE SQUARE RECESSED** is illuminated with four 2.5W Samsung LEDs. Under any operation, the **PLURALUCE SQUARE RECESSED** delivers between 1349 lm - 1414 lm. Each pair of LEDs are laid out in parallel on the LED module so if one pair fails, the other will remain illuminated. A high-efficiency LED driver is used to maintain a constant output current to all LEDs. The LEDs are rated for >54,000 hours at L80.

■ ordering information

Series	Operation	Voltage	Options
PL SQR	HT (AC only)	UNV	120SP (120 min. emergency)
	SA (AC & EM) ¹		AT (autotest)
	SE (EM only)		CC (custom color - specify)

NOTE 1: Unit is always on and cannot be switched on and off

■ dimensions (in, mm.)



Series	A	B	C	D	E	F
PL-SQR	9.25" 235mm	5.5" 140mm	7.5" 191mm	3.75" 95mm	3.5" 127mm	7.5" 191mm

■ installation

The **PLURALUCE SQUARE RECESSED** is designed for recessed mounting. Once the recessed housing is secured to the stud, the unit is held in place by torsion springs. The **PLURALUCE SQUARE RECESSED** is suitable for use in non-IC installations only.

■ warranty

The **PLURALUCE SQUARE RECESSED** comes with a 5-year factory warranty. Deliberate damage, misuse and/or improper installation effectively cancel the warranty.

EXAMPLE: PL SQR SE UNV AT

■ mechanical

The **PLURALUCE SQUARE RECESSED** features a universal mounting pattern and key hole slots are stamped on the backplate. Surface mount conduit entry knockouts are also provided. The **PLURALUCE® SQUARE RECESSED** is for indoor ceiling and wall recess installations.

■ battery

The **PLURALUCE SQUARE RECESSED** SE and SA versions come standard with a Ni-MH battery pack that provides a minimum of 90 minutes emergency duration. Optional 120 minute Ni-MH batteries are available. The battery operating temperature is from 50°F up to 104°F (10°C to 40°C).

The **PLURALUCE SQUARE RECESSED** 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-colored 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.

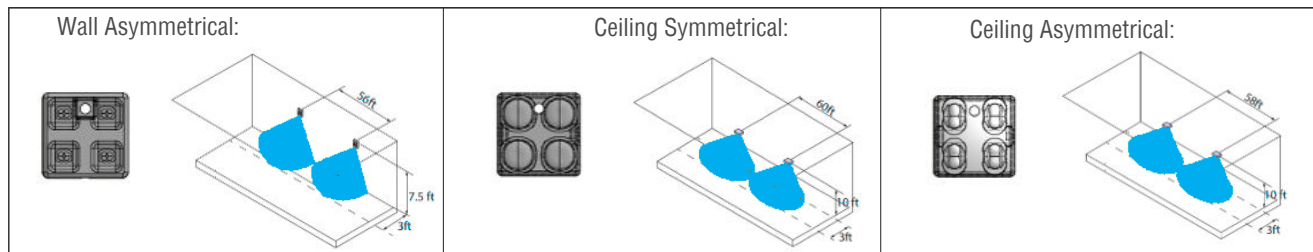
■ lenses

The **PLURALUCE SQUARE RECESSED** is supplied with 3 lenses for a choice of distribution patterns. These custom designed lenses are constructed of optical grade clear polycarbonate. The symmetrical ceiling distribution is suitable for use in open areas with spacing of up to 60' on center. The asymmetrical ceiling distribution is designed for use in hallways and corridors with spacing of up to 58' on center. The asymmetrical wall distribution provides 56' on center with a 3' wide path of egress.

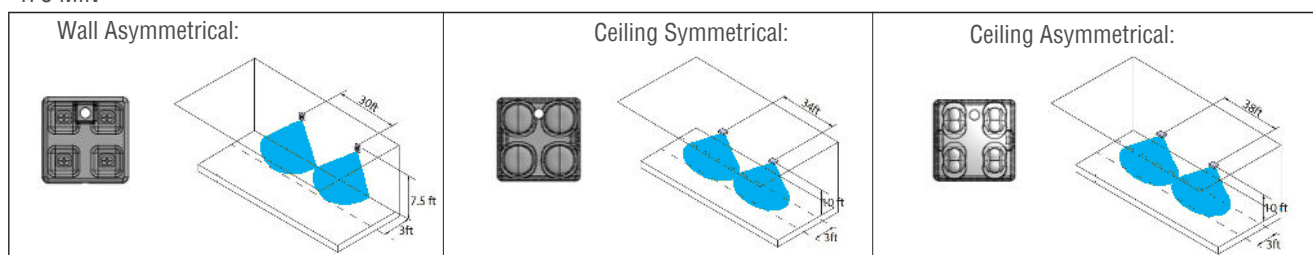
■ lens distribution patterns

1FC AVERAGE

Corridor dimensions: 150' long, 6' width, ceiling height - 10' (for wall, height = 7.5')
Reflectance percentage: 80/50/20, measurements are not to scale



1FC MIN



■ AC input ratings

Voltage (VAC)	Voltage (VAC)	Wattage (W)	Rated Current (A)
HT	120/277/347	13.0/13.1/13.4	0.25/0.15/0.10
SE	120/277/347	4.5/5.0/5.1	0.15/0.10/0.05
SA	120/277/347	17.3/17.0/17.1	0.35/0.25/0.15

■ autotest

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-color 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 SQUARE RECESSED** is available with a choice of operations; HT, SE and SA. They have all achieved a truly universal AC input with a voltage design of 120 to 347VAC. SE & SA come with Ni-MH batteries & optional Auto-test and self-diagnostics circuitry. Under HT operation, the unit is normally-on and does not illuminate under an AC failure. Under SE operation, the unit is normally off & will illuminate under an AC failure only. SA is normally-on under normally utility power and the charging circuit maintains the bat-tery 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.