FORMALUCE COMBO

INDOOR

FC CSA

■ specifications: internal

The **FORMALUCE COMBO** series is configured with a two-wire universal 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.

■ specifications: external

The **FORMALUCE COMBO** sign housing is constructed from 20 gauge steel with a die-cast aluminum emergency housing; both standard in a white baked powder coat finish. Available in custom finishes (please specify). Single, double or universal face versions.
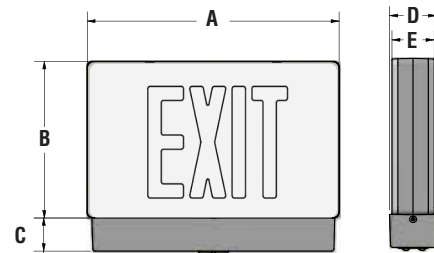
■ LED technology

The **FORMALUCE COMBO** uses four 2.5W Samsung LEDs that deliver up to 919 lm. LED modules are configured in parallel. If one module fails, the other remains 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.

■ dimensions (in, mm.)

Series	A	B	C	D	E
FM-PL	12.63" 321mm	8.38" 213mm	1.77" 45mm	2.24" 57mm	2.12" 54mm

■ ordering logic

Series	Volts/Watts	LED	Face	Mounting	Options
FM-PL	12-10	LR (red)	1 (single)	W (wall)	AT (auto-test)
		LG (green)	2 (double)	C (ceiling)	BA (brushed aluminum finish)
			U (universal)	M (universal)	TP (tamper proof screws)
					CC (custom color - specify)
					WG (wireguard)
					PK12 (12" pendant)
					120MIN (120 min. emergency)

EXAMPLE: FM-PL-12-10-LR-1-W-WG
DESCRIPTION: Formaluce combo, 12V 10W, red LED, single face, wall mount, wireguard.

■ specifications: mechanical

The **FORMALUCE COMBO** features a universal mounting pattern and key hole slots on the backplate. Surface mount conduit entry knockouts are also provided. The exit sign is held securely in place with a channel system that allows it to slide in the frame providing complete access to the interior of the sign. No hardware is used that would detract from the clean, modern design. The **FORMALUCE COMBO** is suitable for surface ceiling and wall indoor installations.

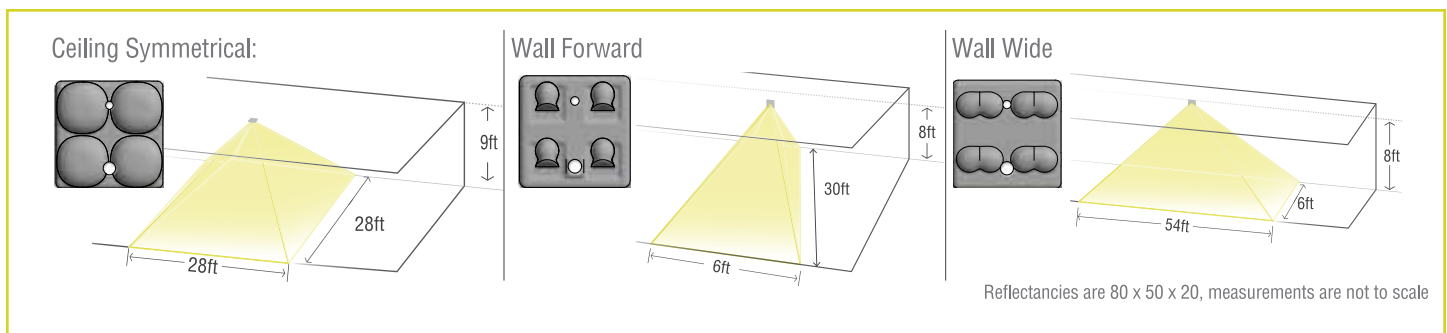## ■ specifications: battery

The **FORMALUCE COMBO** comes standard with a Ni-Cd battery pack that provides a minimum of 90 minutes emergency duration. Optional 120 minute run time is available. The battery operating temperature is from 50°F up to 104°F (10°C to 40°C).

The **FORMALUCE COMBO** 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-Cd/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 **FORMALUCE COMBO** is supplied with 3 lenses for a choice of distribution patterns. The symmetrical ceiling distribution is suitable for use in open areas with spacing of up to 28' on center. The wall mounted wide lens provides an asymmetrical distribution with spacing up to 54' on center. The wall mounted forward lens provides an asymmetrical distribution with a 30' x 6' wide path of egress.

■ AC input ratings

Voltage (VAC)	Wattage (W)	Rated Current (A)
120/277/347	4.5/5.0/5.1	0.15/0.10/0.05

■ 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.

■ 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.

■ warranty

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

■ lens distribution patterns

Ceiling Symmetrical: 9ft / 28ft / 28ft

Wall Forward 8ft / 30ft / 6ft

Wall Wide 8ft / 6ft / 54ft

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