Pluraluce® WP NEMA 4X Compact Battery Unit

ETL Intertek 9901281 — SANITATION LISTED Conforms to ANSI / NSF STD NO. 2 — **FC**

Job/Location: _____

Contractor: _____   Prepared By: _____

Model Number: _____   Date: _____

Up to 55' spacing on centre

Die-cast aluminum cover

Test switch

3 interchangeable lenses for symmetric or asymmetric ceiling or wall distribution

Multi-coloured LED indicator

4 x 2.5W LEDs 4000K

EXTERNAL SPECIFICATIONS

The compact NEMA 4X design of the **PLURALUCE® WP** is fully gasketed for protection against wet and dust-filled environments. The aluminum cover comes standard in a grey 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.

NEMA 4X DESIGN

The **PLURALUCE® WP** has been designed to perform in applications with a wet or dust-filled environment. The entire internal cavity of the unit is protected from moisture ingress by an extremely resilient gasket. The gasketing always holds its original form and has "memory retention".

LED TECHNOLOGY

The **PLURALUCE®** is illuminated with four 2.5W LEDs. Under any operation, the **PLURALUCE®** delivers up to 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.

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

INSTALLATION

The **PLURALUCE®** is suitable for surface wall or ceiling mounting on a junction box or suspended by a pendant kit. The unit is supplied with mounting straps and has knockouts on the side for conduit entry. CSA 22.2 No. 141-15 Performance Certified.
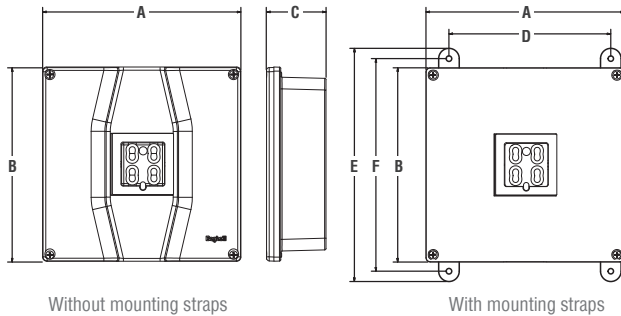
ORDERING INFORMATION

Series	Operation	Voltage	Options
PL-WP	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-WP-AC-120-347V
DESCRIPTION: Pluraluce® NEMA 4X surface mount, Normally-on mode, 120-347VAC

WET / NEMA 4X

CSA

INDUSTRIAL APPLICATION EMERGENCY

03/08/2021

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DIMENSIONS (MM, IN.)

Without mounting straps   With mounting straps

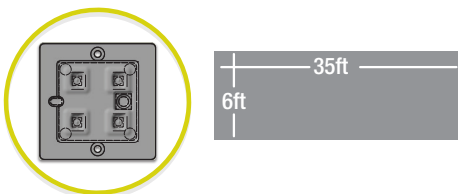| Series	A	B	C	D	E	F
Without mounting straps	184mm (7$^{1/4}$")	181mm (7$^{1/8}$")	54mm (2$^{1/8}$")	N/A	N/A	N/A
With mounting straps	184mm (7$^{1/4}$")	181mm (7$^{1/8}$")	54mm (2$^{1/8}$")	152mm (6")	216mm (8.5")	197mm (7.75")

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 asymmetcial 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.
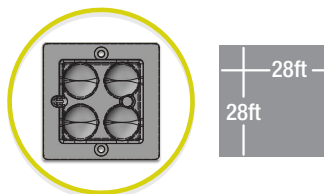
CHARGER SPECIFICATIONS

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.
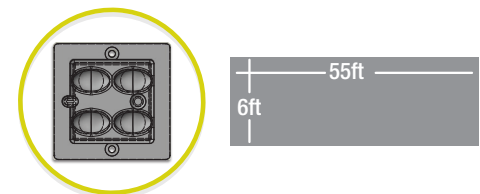
SANITATION LISTED (SL)

Equivalent to the NSF standard 2. The **PLURALUCE**® **WP** is ideal for use in food service equipment environments.

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.

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 and 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. 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

INDUSTRIAL APPLICATION EMERGENCY