

COOPER LIGHTING - SURE-LITES®

DESCRIPTION

The P4C Series is a decorative, mini-system that features solid-state electronics and a long life, maintenance free battery. The low-profile design of the P4C Series, combined with its sensible remote power capabilities, provides a remarkably flexible, low cost, electronic system. Designed to suit any interior application for egress lighting, the P4C Series may be surface mounted. The P4C may be semi-recessed or fully recessed by using the field installed recessing kits.

The diffused tungsten halogen light source and reliable electronics make the P4C Series ideal for illuminating corridors, stairways, doorways and offices.

| | |
|-------------|------|
| Catalog # | Type |
| Project | |
| Comments | |
| Prepared by | Date |

SPECIFICATION FEATURES

Electronic

Dual Voltage Input
120/277 VAC, 60 Hz
Line-latching
Solid-state Voltage
Limited Charger
Solid-state Switching
Low Voltage Disconnect
Brownout Circuit
Overload/Short Circuit
Protection
Test Switch/Power
Indicator Light

Housing Construction

Black Thermoplastic
Conduit Knockouts, 1/2"
Universal J-Box

Mounting Pattern

Surface Mount, Recessed, Semi-
Recessed
Wall or Ceiling Mounting

Battery

Sealed Lead Calcium,
Recombination
Maintenance Free, Long Life
Full Recharge Time,
24 hrs. (max.)
Polarized Battery Terminals

Code Compliance

UL 924 Listed
Life Safety NFPA 101
NEC/OSHA
Most State and Local Codes

Warranty

Unit – 1 year
Battery – 5 year pro-rata

Head/Lamp Data

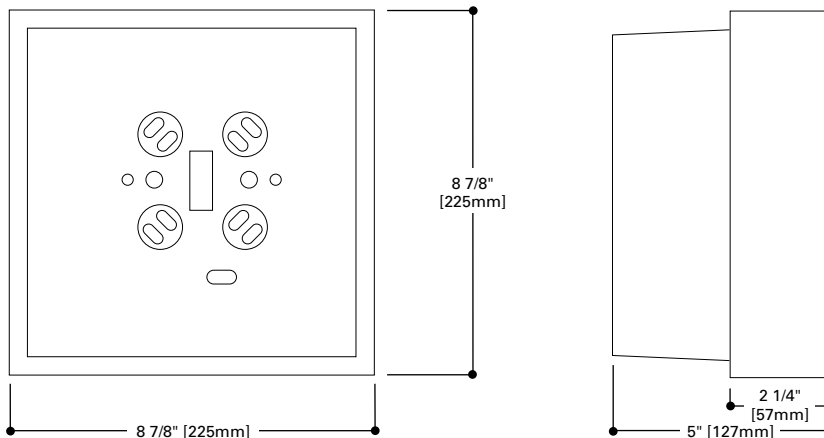
Tungsten Halogen Standard
Glare-Free Lens
Remote Capability
High Impact Acrylic Lens
Optional Impact Resistant
Polycarbonate Lens
Test Switch Behind
Flexible Lens
White Thermoplastic Collar with
Reflector



P4C SERIES

DECORATIVE SQUARE
EMERGENCY LIGHT

Emergency Lighting



ELECTRICAL RATINGS

| Model | Rated Wattage to 87 1/2% of Rated D.C. Voltage | | | | | Lamp Information | | |
|--------------------------|--|-------------|------------|-----------|-----------|------------------|-----------|--------------|
| | DC Voltage | 1 1/2 Hours | 2 Hours | 3 Hours | 4 Hours | Type | Wattage | Number |
| P4C1 | 6 | 10.8 | 7.2 | - | - | Tungsten Halogen | 10 | 29-40 |
| P4C2 | 6 | 27 | 24 | 18 | 14 | Tungsten Halogen | 10 | 29-40 |
| P4C22¹ | 6 | 27 | 24 | 18 | 14 | Tungsten Halogen | 10 | 29-40 |
| P4C3 | 6 | 54 | 48 | 36 | 28 | Tungsten Halogen | 10 | 29-40 |

TOTALLY PREDICTABLE
RELIABILITY

ENERGY DATA
Input Current (Max.):
120V= .12A
277V= .05A

ORDERING INFORMATION

SAMPLE NUMBER: P4C1PCL

| | | |
|--|--|---|
| P4C | Options (add as suffix) | Accessories (order separately) |
| Model Number P4C1 P4C2 P4C22 P4C3 | PCL=Polycarbonate Lens TDM=Time Delay Monitor V=Voltmeter Other Options: Consult Cooper Lighting Representative | WG7=Wire Guard USF1=Rough-in Kit for semi-recessed installation 8 1/4"L x 8 1/4"W x 2 7/8"D (210mm x 210mm x 73mm) FRK1=Rough-in Kit for fully recessed installation 9 1/8"L x 9 1/8"W x 5 1/8"D (232mm x 232mm x 130mm) VS1=Polycarbonate Vandal Shield VS1WP=Polycarbonate Vandal Shield - Weatherproof |

PHOTOMETRICS

Emergency Photometrics

| Mounting Height | Initial Horizontal Footcandles at Nadir | Dia. of Circle with 0.5 Footcandle Illumination |
|-----------------|---|---|
| 5' | 1.60 | 9'9" |
| 6' | 1.12 | 9'7" |
| 7' | 0.84 | 8'2" |
| 8' | 0.66 | 6'5" |
| 9' | 0.53 | 3'2" |

Single Lamp Model
Lamp No. 29-40
Initial Lumens – 29-40 @ 201

Emergency Photometrics

| Mounting Height | Initial Horizontal Footcandles at Nadir | Dia. of Circle with 0.5 Footcandle Illumination |
|-----------------|---|---|
| 5' | 3.76 | 11'9" |
| 6' | 2.63 | 12'0" |
| 7' | 1.95 | 12'9" |
| 8' | 1.51 | 13'0" |
| 9' | 1.21 | 13'1" |
| 10' | 1.00 | 12'10" |

Twin Lamp Model
Lamp No. 29-40
Initial Lumens – 29-40 @ 201 each

TECHNICAL DATA

Optics

High output tungsten halogen lamps are optimally located in polished metal reflector assembly. High strength acrylic diffuser is matched to the optical system to maximize light output.

Enclosure

Attractively styled thermoplastic housing is impact resistant. White collar with regress blend nicely with interior decors. Semi-recessed installation in walls and ceilings is facilitated with the USF-1 accessory kit. FRK-1 accessory rough-in kit allows the P4C unit to be fully recessed in ceiling installations. FRK-1 is supplied with white finishing trim.

Line-Latched

Sure-Lites' line-latched electronic circuitry makes installation easy and economical. A labor efficient AC-activated load switch prevents the lamps from turning on during installation to a non-energized AC circuit. Line-latching eliminates the need for a contractor's return to a job site to connect the batteries when the building's main power is permanently turned on.

Solid-State Charger

Supplied with a 120/277 VAC, voltage regulated solid-state charger. Immediately upon restoration of AC current after a power failure, the charger provides a high charge rate. The charge circuit reacts to the condition of the battery and alters the rate of charge in order to maintain peak battery capacity and maximize battery life. Solid-state construction recharges the battery following a power failure in accordance with UL 924.

Overload and Short Circuit Protection

The solid-state overload monitoring device in the DC circuit disconnects the lamp load from the battery should excessive wattage demands be made and automatically resets when the overload or short circuit is removed. This overload current protective feature eliminates the need for fuses or circuit breakers for the DC load.

Brownout Circuit

The brownout circuit in Sure-Lites' units monitors the flow of AC current to the unit and activates the emergency lighting system when a predetermined reduction of AC power occurs. This dip in voltage will cause most ballasted fixtures to extinguish even though a total power failure has not occurred.

Solid-State Transfer

The unit incorporates a solid-state switching transistor which eliminates corroded and pitted contacts or mechanical failures associated with relays. The switching circuit is designed to detect a loss of AC voltage and automatically energizes the lamp(s). Upon restoration of the AC power, the emergency lamp(s) will switch off and the charger will automatically recharge the battery.

Low Voltage Disconnect

When the battery's terminal voltage falls below 80% of the rated voltage, the low voltage circuitry disconnects the lighting load. The disconnect remains in effect until normal utility power is restored, preventing deep battery discharge.

Test Switch/Power Indicator Light

Conveniently located Test Switch allows for manual verification of proper operation of the transfer circuit and emergency lamps. The Power Indicator Light provides visual assurance that the AC power is on.

Sealed Lead Calcium Battery

The fully sealed, long life, maintenance free lead calcium battery is ideal for emergency lighting applications. These recombinant cycle batteries typically provide eight to ten years of life and may be operated in any position.

Warranty

All Sure-Lites' units are backed by a firm one year warranty against defect in material and workmanship (excluding lamps). Maintenance free, long life, sealed lead calcium batteries carry a five-year pro-rata warranty.