

COOPER LIGHTING - SURE-LITES®

DESCRIPTION

The Sure-Lites CHX Series Double Head Exits are ideal exits for general purpose applications. An extensive range of field installed accessories, choice of faces and the variety of possible mounting configurations permit the tailoring of the basic exit for almost any application. Durable steel construction, attractive styling and high efficiency illumination make this series compatible in commercial, institutional and multi-housing applications.

Catalog #		Type
Project		
Comments		Date
Prepared by		

SPECIFICATION FEATURES

Electronic

- Separate Exit Sign/Emergency Light circuitry for complete compliance with Chicago Code
- Dual Voltage Input 120/277 VAC, 60 Hz
- Line-latching
- Solid-state Voltage Limited Charger
- Solid-state Switching- Brownout Circuit
- Low-Voltage Disconnect- Overload/Short Circuit Protection
- Test Switch/Power Indicator Light

Battery

- Sealed Lead Calcium, Recombination Battery for emergency light
- Sealed Nickel Cadmium for exit Sign
- Full Recharge Time, 24 hrs. (max.)

Housing Construction

- 20-gauge steel housing
- White Finish
- Universal pattern knockouts on rear for direct mounting to junction box
- Steel canopy (where supplied) allows ceiling or end mounting
- Red silk-screened lettering on white, heat tempered, impact resistant glass lens
- Other open face lenses available- consult Cooper Lighting representative
- Lens installs from side of fixture for more convenient, safe maintenance

Code Compliance

- UL 924 Listed
- Life Safety NFPA 101
- NEC/OSHA
- City of Chicago Fire Code

Warranty

- Unit: 1-year
- Lead Calcium Battery: 5-year pro-rata
- Nickel Cadmium Battery: 15-year pro-rata

Lamp Data

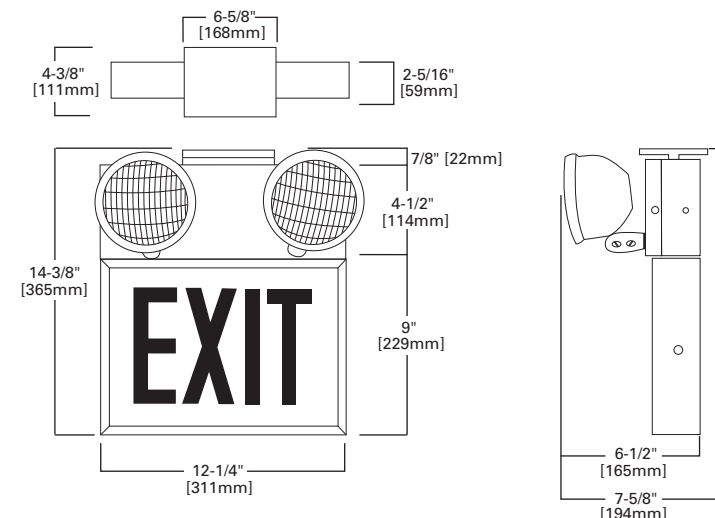
- Heads - two 6V, 12W, DC halogen bi-pin lamps in metal heads with die-cast swivels
- Sign Face - High Brightness White LEDs



CHX-DH SERIES

STEEL EXIT
SELF POWERED
EMERGENCY
LED EXIT
CHICAGO EXIT LIGHTING

TOTALLY PREDICTABLE
RELIABILITY.



ORDERING INFORMATION

Sample Number: CHX71DH

Family	Face Options	Lens Options	Housing Material
CHX=Steel Exit, LED	1=Single Face 2=Double Face	Blank=Standard White Lens P=Phosphorescent Lens	Blank=Standard Cold Rolled Steel
Series	Arrow Options	Head Options	Stairs Options
7=Self Powered	Blank=No Arrow AR=Arrow Right AL=Arrow Left DA=Double Arrow ARL=Arrow Right/Left (double face only)	DH=Double Head Combo (CHX7 only)	Blank=Exit Sign -STAIRS=STAIRS sign (include dash)

ENERGY DATA

Maximum power consumption under all charge conditions:

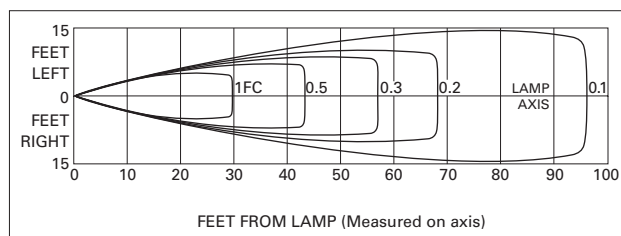
Exit circuit:
Input Power: 3.1W

Emergency circuit:
Input Power: 16W

Total Fixture:
Input Power: 19.1W

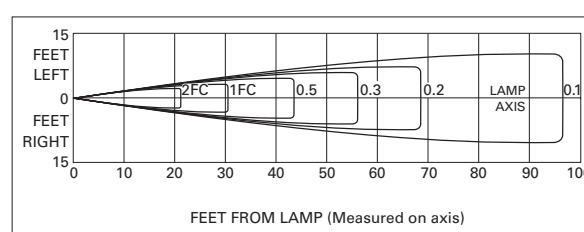
PHOTOMETRICS

Horizontal Distribution



Lamp No. 29-66
Initial Lumens – 29-66 @ 302

Vertical Distribution



Lamp No. 29-66

TECHNICAL DATA

Lamps

CHX Series Exits use energy efficient, long life LED's to provide uniform diffuse illumination of the exit face. These white LEDs require no maintenance and consume less than one watt, on average. Double head units also have two 6V, 12W DC halogen bi-pin lamps in metal heads with die cast swivels.

Housing Construction

Exit housing is constructed of durable 20-gauge cold rolled steel with corrosion resistant polyester powder coat paint finish. All exits can be mounted and wired through knockouts located on the top and side. Surface mount back panel has knockouts for direct mounting to junction box. The mounting canopy is made of cold rolled steel in matching finish. Impact resistant, heat tempered glass lens and back plate install in channels in the exit housing to eliminate light leaks.

Heads

All metal formed aluminum lampheads. The diecast metal three dimensional swivel assembly permits approximate aiming adjustment from 80° vertical and 358° rotation. The placement is secured with a lockable pivot mounted on a rotating base ring.

Lens

The lens provided is made of impact resistant, heat tempered glass. Red lettering is silk-screened on a white phosphorescent background. Full stroke arrows are provided as specified.

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.

Solid-State Transfer

These exits incorporate solid-state switching

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 energize the lamps. Upon restoration of AC power, the emergency lamps will switch off and the charger will automatically recharge the battery.

Sealed Lead Calcium Battery

The fully sealed, long-life, maintenance-free lead calcium battery is ideal for emergency lighting applications. These batteries typically provide 8 to 10 years of life and may be operated in any position.

Sealed Nickel Cadmium Battery

Sure-Lites sealed nickel cadmium batteries are maintenance-free with a life expectancy of 15 years. The sealed rechargeable nickel cadmium battery offers high discharge rates and stable performance over a wide range of temperatures.

Warranty

All Sure-Lites products are backed by a firm one-year warranty against defects in material and workmanship (excluding lamps). Maintenance-free, long-life, sealed lead calcium batteries carry a five-year pro-rata warranty and sealed nickel cadmium batteries carry a 15-year pro-rata warranty.