#### DESCRIPTION

A real workhorse in emergency lighting systems, these durable, reliable units are unparalleled in both performance and freedom from maintenance. The HR Series provides a low cost, solid-state lighting system ideal for industrial, commercial or multi-housing environments. High-capacity makes the HR Series ideal for installations where a large number of heads/exits will be remotely operated.

## Sure-Lites

Catalog #	Туре
Project	
Comments	Date
Prepared by	

#### SPECIFICATION FEATURES

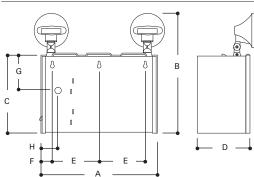
#### Electronic

- 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
- Isolation Transformer

#### Battery

- Sealed Lead Calcium,
- Recombination
- Maintenance-free, Long-life

#### DIMENSIONS



#### ELECTRICAL RATINGS

Rated Wattage to 87 1/2% of rated D.C. Voltage						Lamp Information			
Model	Battery	DC Voltage	1 1/2 hours	2 hours	3 hours	4 hours	Туре	Wattage	Number
HR87*	SLC	6	87	65	43	32	Incandescent	9	29-84
HR180*	SLC	6	180	135	90	67	Incandescent	9	29-84

- Full Recharge Time, 24 hrs. (max.)

- Polarized Battery Terminals

- 18-Gauge Die-Formed Steel

- 18-Gauge Die-Formed Steel

- Universal J-Box Mounting

- Keyhole Mounting Slots

**Code Compliance** 

- Life Safety NFPA 101

- Most State and Local Codes

- Knockout, Conduit or Cord Set

**Housing Construction** 

Housing

Cover

Pattern

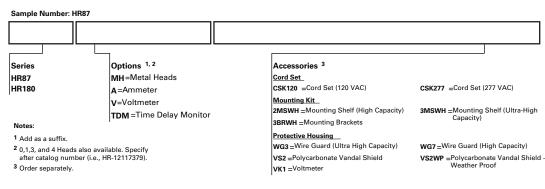
- White Finish

- UL 924 Listed

- NEC/OSHA

\*Batteries may be shipped separately. SLC=Sealed Lead Calcium

#### ORDERING INFORMATION





### **HR** SERIES

ULTRA HIGH CAPACITY HIGH CAPACITY
170-360 WATTS (ULTRA HIGH CAPACITY)
87-117 WATTS (HIGH CAPACITY)
6-VOLT
SEALED LEAD CALCIUM BATTERY
EMERGENCY LIGHTING



#### ENERGY DATA

#### HR87 Input Current (Max.): 120V= .50A 277V= .21A

HR180 Input Current (Max.): 120V= .98A 277V= .43A

COOPER

ADX041000 pc 2016-02-18 10:29:27

# ity ו) 1)

Warranty

- Unit: 1-year

- Battery: 5-year pro-rata

**Head/Lamp Data** 

- Top Mounted

- Glare-Free Lens

- Fully Adjustable

- Remote Capability

- High Impact - Thermoplastic

- Matches Housing Finish

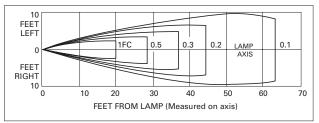
(i.e. wall mount, etc.)

**Mounting Requirement** 

- Mount only on a vertical plane

- Two Heads Standard

	High Capacity	Ultra High Capacit
А	12 1/4" (311mm)	17" (432mm)
В	13 1/4″ (337mm)	16 7/8″ (429mm
С	7 7/8" (200mm)	11 1/2" (292mm)
D	4 1/4" (108mm)	8″ (203mm)
Е	4 3/4" (121mm)	6" (152mm)
F	1 3/8″ (35mm)	2" (51mm)
G		5 3/4" (146mm)
Н		2 1/2" (64mm)



Lamp No. 29-84

Initial Lumens - 29-84 @ 132

#### **TECHNICAL DATA**

#### Heads

The lamp housing is constructed of flame- and impact-resistant injection molded thermoplastic with matching finish. The 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.

#### Lamps

Designed specifically for emergency lighting applications, the PAR 36 sealed beam type design insures optimum glare-free trapezoidal light distribution along with horizontal and vertical adjustment by rotating the lens within the housing.

#### Housing

The rugged 18-gauge die-formed steel housing is finished with an attractive white corrosionresistant polyester powder coat paint. Cabinet has keyhole mounting slots, universal mounting pattern, and knockouts in rear and side for AC/ DC wiring connections and accessory cord set. Up to three lighting heads can be mounted on the cabinet.

#### 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 causing loss of normal lighting 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 lamps. Upon restoration of the AC power, the emergency lamps 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 oneyear warranty against defect in material and workmanship (excluding lamps). Maintenancefree, long-life, sealed lead calcium batteries carry a five-year pro-rata warranty.



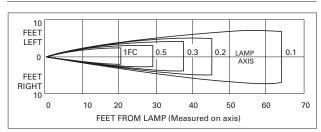
Specifications and dimensions subject to

change without notice



Cooper Lighting Solutions 1121 Highway 74 South Peachtree City, GA 30269 P: 770-486-4800 www.cooperlighting.com

#### Vertical Distribution



Lamp No. 29-84