

# 87S16-87S24

## CONFINEMENT SERIES

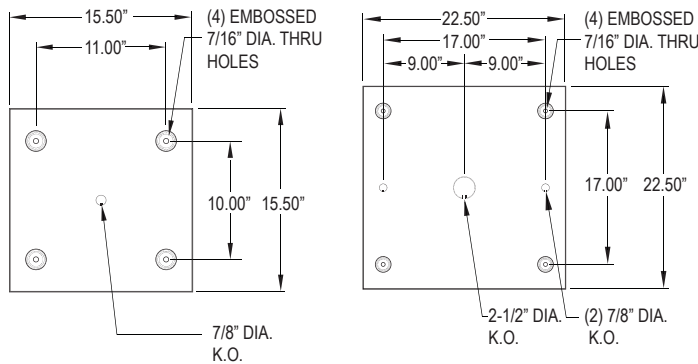
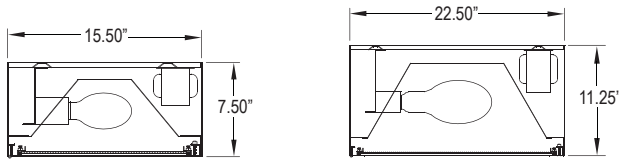
SURFACE LUMINAIRE

MINIMUM TO MAXIMUM SECURITY  
FLUORESCENT/HID/LED



PROJECT:
TYPE:
PRODUCT:
APPROVED:
DATE:

### DIMENSIONAL DATA



### FEATURES

The New Star "87S16-87S24" Confinement fixture is composed of a solid square housing die formed in CRS.

- 18-12 gauge cold rolled steel or stainless steel with continuous seam welds
- Wide variety of lens options held in place with Z-Channel and weld studs
- Black neoprene gasket around door frame to prevent light leaks
- Tamper resistance Torx head center pin screws standard

### APPLICATION

- Confinement
- Psychiatric Wards
- Detention Centers
- Public Housing Complexes
- Transportation Applications
- Transportation Applications
- Athletic Facilities
- Locker Rooms

### SPECIFICATION FEATURES

#### HOUSING:

Die formed, seam welded, and ground smooth (specify material and gauge). Incorporates a removable reflector unitized with all electrical components for easy installation and maintenance.

#### FRAME:

Die formed one-piece frame with tightly closed corners. (material and gauge to match housing).

#### HINGE:

16 gauge full length continuous, staked piano hinge, with welded ends. to prevent removal (material to match housing).

#### LENS:

Polycarbonate or tempered glass lens sealed to frame.

#### LENS RETAINER:

14 gauge cold rolled retaining angles attached to through door studs for positive lens clamping

#### ELECTRONICS:

Fluorescent:  
Electronic Ballast <10% THD standard. RIF available. Lamps by others.

#### LED:

Available in three standard color temperatures 3500°K, 4000°K & 5000°K. Other color temperatures available, consult factory.

#### BALLASTS:

Fluorescent Ballast : UL Listed Class P  
HID Ballast : UL Listed HPF Type

#### GASKET:

Black neoprene gasket around door frame to prevent light leaks

#### FASTENERS:

Tamper resistant countersunk, flat head Torx screws, with center pin reject

#### FINISH:

White powdercoat finish following an iron phosphate pre-treatment.

#### LABEL:



### ORDERING INFORMATION

Product Family	Housing	Frame	# of Lamps	Lamp Type	# Ballasts/Drivers			
<b>87S_</b>								
87S16 15 -1/2" x 15 -1/2" x 7-1/2"	A = 12 Ga. CRS B = 14 Ga. CRS (Brushed) C = 16 Ga. CRS D = 18 Ga. CRS (Painted) E = 14 Ga. SS (Brushed) F = 16 Ga. SS (Brushed)	G = 18 Ga. SS (Brushed) H = 14 Ga. SS I = 16 Ga. SS (Painted) J = 16 Ga. SS (Painted) K = 18 Ga. SS (Painted)	A = 12 Ga. CRS B = 14 Ga. CRS (Brushed) C = 16 Ga. CRS D = 18 Ga. CRS (Painted) E = 14 Ga. SS (Brushed) F = 16 Ga. SS (Brushed)	G = 18 Ga. SS (Brushed) H = 14 Ga. SS I = 16 Ga. SS (Painted) J = 16 Ga. SS (Painted) K = 18 Ga. SS (Painted)	Fluorescent: 87S16-87S24 1 = 1 Lamp 2 = 2 Lamp HID: 1 = 1 Lamp LED 87S16-87S24: L2 = LED 2 Boards (5000lms) L3 = LED 3 Boards (7500lms)	87S16 Fluorescent 42 = 42W Triple Gx24q-4 57 = 57W T4 4-Pin Gx24q-5 70 = 70W T4 4-Pin Gx24q-6 87S24 Fluorescent 42 = 42W Triple Gx24q-4 57 = 57W CFL Gx24q-5 70 = 70W CFL Gx24q-6 LED: 35 = White 3500° K 40 = White 4000° K 50 = White 5000° K	87S16 HID 50 = 50W MH - HPS∞ 70 = 70W MH - HPS∞ 100 = 100W MH - HPS∞ 150 = 150W MH - HPS∞ 150 = 150W MH - HPS∞ 250 = 250W MH - HPS∞ 400 = 400W MH - HPS∞	Fluorescent: LED: 1 = Ballast 1 = Driver 2 = Ballast 2 = Driver

Outer Lens	Inner Lens	Voltage	Options
∅ = No Lens 1 = .187 Clear Poly. 2 = .250 Clear Poly. 3 = .375 Clear Poly. 5 = .187 Clear Temp. Glass 6 = .250 Clear Temp. Glass 7 = .375 Clear Temp. Glass ^ 8 = .500 Clear Temp. Glass ^ 9 = .750 Clear Temp. Glass ^ LC3 = .125 White Frosted Glass Polycarbonate	∅ = No Lens C = .156 Pris. Poly. E = .156 Pris. Temp. Glass L = .187 Prismatic Tempered Glass	12 = 120V 27 = 277V 34 = 347V ■ UN = Universal (120V-277V)	E1 = Emergency Battery * (350-700 Lumens) for CFL only FZ = GLR fuse and holder * AL = Aluminum door frame (white finish) SS = Stainless Steel door frame (#4 finish) QR = Quartz Restrike system

^ Must Use 12 or 14 Gauge Frame  
f Fluorescent lamps only  
\* Cannot use with universal voltage option

∞ Must use glass inner lens when using HID lamp source

#### Notes:

Specifications and Dimensions are subject to change without notice. For additional options and dimensional details please consult your New Star Lighting Representative. For specific electronic ballast, specify brand and catalog number.