

# 47R LED SERIES

PROJECT: \_\_\_\_\_  
 TYPE: \_\_\_\_\_  
 PRODUCT: \_\_\_\_\_  
 APPROVED BY: \_\_\_\_\_

## PRODUCT FEATURES

- Intended for Minimum to Supermax Correctional Facilities, Detention Centers, Public Housing, Athletic Facilities, and more
- Concealed drop hinge design allows for secure yet convenient access for maintenance
- Available in 1x2, 1x4, 2x2, and 2x4 sizes and recessed grid or flange mounting options
- Includes security fasteners and impact-resistant materials to prevent unauthorized access
- Choice of polycarbonate or tempered glass lenses to withstand impact
- This product is Made in America and complies with the Buy American Act (BAA) and the Build America, Buy America Act (BABAA)
- The 47R Series is covered by the New Star Promise



47R Series

## ORDERING INFORMATION

Example: 47R12-AA-L240-90C-1C-A/B-UN



| 47     | R   |  |   |  |   |   |                                     |
|--------|---|--|---|--|---|---|-------------------------------------|
| Series | Mounting<br>R = Recessed<br>(Grid/Flange) | Size*<br>12 = 1x2<br>14 = 1x4<br>22 = 2x2<br>24 = 2x4<br><br>*Nominal Size.<br>Dimensional<br>Data on<br>Page 2. | Housing<br>A = 12Ga. CRS Painted<br>B = 14Ga. CRS Painted<br>C = 16Ga. CRS Painted<br>D = 18Ga. CRS Painted<br>E = 14Ga. SS Brushed<br>F = 16Ga. SS Brushed<br>G = 18Ga. SS Brushed<br>H = 14Ga. SS Painted<br>J = 16Ga. SS Painted<br>K = 18Ga. SS Painted | Frame<br>A = 12Ga. CRS Painted<br>B = 14Ga. CRS Painted<br>C = 16Ga. CRS Painted<br>E = 14Ga. SS Brushed<br>F = 16Ga. SS Brushed<br>H = 14 Ga. SS Painted<br>J = 16 Ga. SS Painted | Lumen Output<br>47R12-14:<br>L2 = Low<br>L3 = High<br>CL = Custom Lumen Output**<br>47R22-24:<br>L2 = Low<br>L4 = Standard<br>L6 = Medium<br>L8 = High<br>CL = Custom Lumen Output**<br><br>*Subject to change. Performance Data on page 3.<br>**Must be specified at time of quote. Must not exceed fixture maximum output. Must specify "DMI" if selecting dimming. | Color Temp.<br>35 = 3500K<br>40 = 4000K<br>50 = 5000K | CRI<br>80C = 80 CRI<br>90C = 90 CRI |

|  | /  |   |   |  |   |
|--|--|---|---|--|---|
| Circuits<br>1C = 1 Circuit<br>2C = 2 Circuits*<br><br>*Allows for Inboard/Outboard control | Outer Lens<br>A = .125 Clear Poly.<br>B = .156 Clear Poly.<br>1 = .187 Clear Poly.<br>2 = .250 Clear Poly.<br>3 = .375 Clear Poly.<br>5 = .187 Clear Temp. Glass<br>6 = .250 Clear Temp. Glass<br>7 = .375 Clear Temp. Glass*<br>8 = .500 Clear Temp Glass*<br>9 = .750 Clear Temp Glass*<br><br>*Must use with 12Ga. or 14Ga. frame | Inner Lens<br>A = .125 Prismatic Acrylic<br>B = .125 Prismatic Poly.<br>C = .156 Prismatic Poly.<br>D = .187 Prismatic Poly.<br>F = .156 Prismatic Acrylic<br>G = .140 DR Acrylic<br>H = .125 White Frosted Acrylic<br>LC3 = .125 White Frosted Poly. | Voltage<br>12 = 120V<br>27 = 277V<br>UN = Universal (120V - 277V) | Driver<br>DM = 0-10V dimming with 10-100% range<br>DMI = 0-10V dimming with 1-100% range | Options<br>FZ1 = Fuse(120v)<br>FZ2 = Fuse(277v)<br>LN = LED Night Light*<br>EL1 = Emerg. Bat. LED Low(10W)**<br>EL2 = Emerg. Bat. LED High(20W)**<br>AH = Allen Head fasteners with center pin reject<br>AM = Antimicrobial finish on exposed surfaces<br><br>*3500K non-dimming Night Light with integrated switch allows light levels at 100%, 70%, 40% and 10%.<br>**If stored, batteries should be fully recharged every six months and kept between 0°C-25°C to maintain optimal battery capacity. |

## SPECIFICATIONS

**HOUSING:** Die-formed, seam welded, and ground smooth housing in cold rolled steel or stainless steel housing (specify gauge).

**FRAME:** Die-formed one-piece doorframe with mitred corners secured to housing with countersunk Torx® fasteners, available in cold rolled steel or stainless steel.

**HINGE:** Concealed internal 16 gauge drop hinge.

**LENS:** Lens per specification (see options) and secured by "Z" retainers with welded studs spaced six inches apart for maximum strength.

**LED:** Available in three color temperatures 3500K, 4000K, and 5000K with maximum 3-step MacAdam variation allowance. Other color temperatures available, consult factory. Minimum 50,000 hours with 70% lumen maintenance in a 25°C ambient temperature environment, compliant with IES LM-80 testing standards.

**ELECTRICAL:** 120-277VAC, 50/60HZ electrical input high power factor electronic, constant current driver (<20% THD, >0.90 PF).

**FASTENERS:** Tamper-resistant Torx® head fasteners.

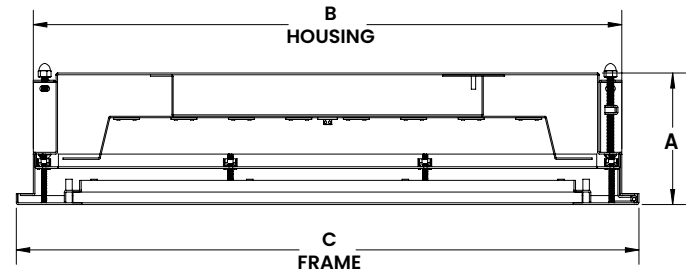
**FINISH:** White polyester powder coat finish following multi-stage iron phosphate pretreatment.

**GASKET:** Black neoprene gasket around interior door frame to prevent light leaks.

**INSTALLATION:** Recessed mounting accommodates Grid and Flange installations. Recessed fixtures will be supplied with adjustable swing arms that can be used for Flange applications. Recessed install compatible with 1-1/2" and 15/16" Grid systems. Mounting for custom ceilings available, consult factory.

**WARRANTY:** New Star Promise.

## DIMENSIONAL DATA



|              | A     | B               | C               | REC. CEILING CUT-OUT |
|--------------|-------|-----------------|-----------------|----------------------|
| <b>47R12</b> | 4.56" | 10.68" x 22.68" | 12.00" x 24.00" | 11.00" x 23.00"      |
| <b>47R14</b> | 4.56" | 10.68" x 46.68" | 12.00" x 48.00" | 11.00" x 47.00"      |
| <b>47R22</b> | 4.56" | 22.68" x 22.68" | 24.00" x 24.00" | 23.00" x 23.00"      |
| <b>47R24</b> | 4.56" | 22.68" x 46.68" | 24.00" x 48.00" | 23.00" x 47.00"      |



The 47R LED Series is covered by our New Star Promise.

Our promise means we will repair or replace any of our High Abuse or Vandal-Resistant architectural luminaires when installed according to our instructions for the life of the original installation if the fixture should fail due to physical abuse\*.

\*Damage caused by gunfire and chemical reactions is not covered by the New Star Promise.



**New Star Lighting**

2225 W Pershing Rd, Chicago, IL 60609  
(773) 847-1400  
www.newstarlighting.com

Specifications and dimensions are subject to change without notice. For additional options and dimensional details, please consult your New Star Lighting representative.

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## PERFORMANCE DATA

\*Data is with 80 CRI chip. LEDs are frequently updated therefore values may change without notice.

| MODEL | OUTPUT        | COLOR TEMP. | LUMENS DELIVERED | EFFICACY (lm/W) | INPUT POWER (W) |
|-------|---------------|-------------|------------------|-----------------|-----------------|
| 47R12 | L2 = Low      | 3500K       | 2875             | 115             | 25              |
|       |               | 4000K       | 3000             | 120             | 25              |
|       |               | 5000K       | 3125             | 125             | 25              |
|       | L3 = High     | 3500K       | 4180             | 110             | 38              |
|       |               | 4000K       | 4370             | 115             | 38              |
|       |               | 5000K       | 4560             | 120             | 38              |
| 47R14 | L2 = Low      | 3500K       | 5750             | 115             | 50              |
|       |               | 4000K       | 6000             | 120             | 50              |
|       |               | 5000K       | 6250             | 125             | 50              |
|       | L3 = High     | 3500K       | 8250             | 110             | 75              |
|       |               | 4000K       | 8625             | 115             | 75              |
|       |               | 5000K       | 9000             | 120             | 75              |
| 47R22 | L2 = Low      | 3500K       | 3000             | 120             | 25              |
|       |               | 4000K       | 3125             | 125             | 25              |
|       |               | 5000K       | 3250             | 130             | 25              |
|       | L4 = Standard | 3500K       | 6000             | 120             | 50              |
|       |               | 4000K       | 6250             | 125             | 50              |
|       |               | 5000K       | 6500             | 130             | 50              |
|       | L6 = Medium   | 3500K       | 8625             | 115             | 75              |
|       |               | 4000K       | 9000             | 120             | 75              |
|       |               | 5000K       | 9375             | 125             | 75              |
|       | L8 = High     | 3500K       | 11500            | 115             | 100             |
|       |               | 4000K       | 12000            | 120             | 100             |
|       |               | 5000K       | 12500            | 125             | 100             |
| 47R24 | L2 = Low      | 3500K       | 6000             | 120             | 50              |
|       |               | 4000K       | 6250             | 125             | 50              |
|       |               | 5000K       | 6500             | 130             | 50              |
|       | L4 = Standard | 3500K       | 12000            | 120             | 100             |
|       |               | 4000K       | 12500            | 125             | 100             |
|       |               | 5000K       | 13000            | 130             | 100             |
|       | L6 = Medium   | 3500K       | 17250            | 115             | 150             |
|       |               | 4000K       | 18000            | 120             | 150             |
|       |               | 5000K       | 18750            | 125             | 150             |
|       | L8 = High     | 3500K       | 23000            | 115             | 200             |
|       |               | 4000K       | 24000            | 120             | 200             |
|       |               | 5000K       | 25000            | 125             | 200             |



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