

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)



47R Series



ORDERING INFORMATION

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

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

Circuits 1C = 1 Circuit 2C = 2 Circuits* *Allows for Inboard/ Outboard control	Outer Lens A = .125 Clear Poly. B = .156 Clear Poly. 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* *Must use with 12Ga. or 14Ga. frame	Inner Lens A = .125 Prismatic Acrylic B = .125 Prismatic Poly. C = .156 Prismatic Poly. D = .187 Prismatic Poly. F = .156 Prismatic Acrylic G = .140 DR Acrylic H = .125 White Frosted Acrylic LC3 = .125 White Frosted Poly.	Voltage 12 = 120V 27 = 277V UN = Universal (120V - 277V)	Options FZ1 = Fuse (120V) FZ2 = Fuse (277V) LN = LED Night Light* EL1 = Emerg. Bat. LED Low (10W)** EL2 = Emerg. Bat. LED High (20W)** AH = Allen Head fasteners with center pin reject AM = Antimicrobial finish on exposed surfaces DM = 0-10V dimming with 10-100% range DMI = 0-10V dimming with 1-100% range *3500K non-dimming Night Light with integrated switch allows light levels at 100%, 70%, 40% and 10%. **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, >0.95 PF).

FASTENERS: Tamper-resistant Torx® head fasteners.

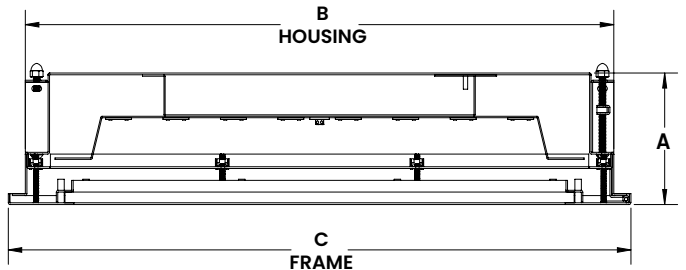
FINISH: White powder coat finish following multi-stage iron phosphate pretreatment.

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
47R12	4.56"	10.68" x 22.68"	12.00" x 24.00"	11.00" x 23.00"
47R14	4.56"	10.68" x 46.68"	12.00" x 48.00"	11.00" x 47.00"
47R22	4.56"	22.68" x 22.68"	24.00" x 24.00"	23.00" x 23.00"
47R24	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.

PERFORMANCE DATA

*Data is with 80 CRI chip at 4000K. 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



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.

© 2025, New Star Lighting. All rights reserved. Unauthorized duplication or distribution is prohibited.