

# Juno®

## FIREWALL™ LED Downlight Series

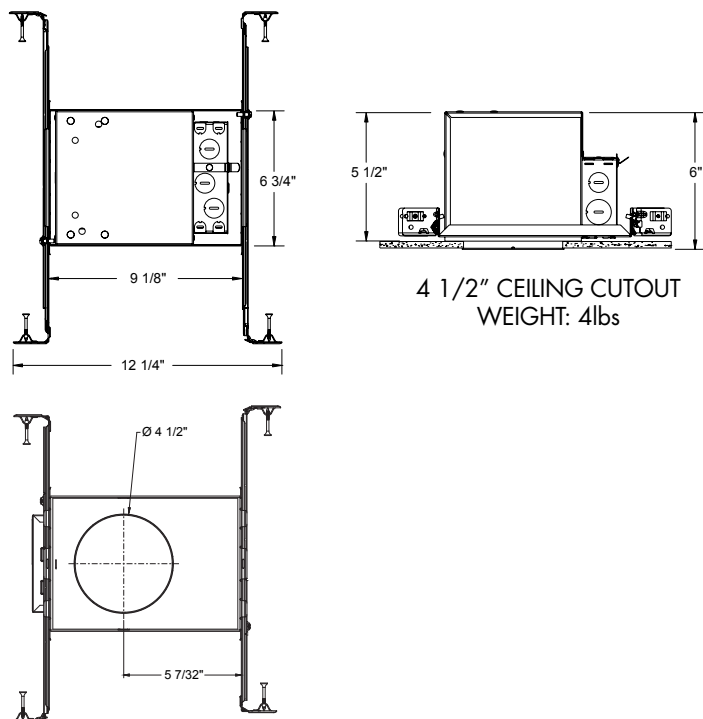
### 4" Fire-Rated Integrated LED Downlight

### New Construction

#### IC1LED FW Series



#### Dimensions



For use with standard Juno downlight trims:



Project:
Fixture Type:
Location:
Contact/Phone:

#### Product Features

Dedicated small aperture 4" LED performance fire-rated downlight solution with integral light engine delivering up to 1400 lumens and compatible with a comprehensive selection of standard Juno trims

Patent pending integrated low smoke intumescent barrier

- Eliminates the need for installers to build additional boxes around fixtures to meet fire ratings
- Provides protection against the spread of heat and flames into the ceiling cavity for 1 hour or 2 hour fire ratings
- Reduces sound transmission between floors

Easy installation and servicing

- Low profile integrated LED downlight less than 6" in height
- Easy to handle compact size weighing only 4 lbs
- Installs into wood joists with Real Nail® 3 bar hangers


#### Applications

- Residential and commercial applications including multi-family, hotels, assisted living, dormitories and other multi-level construction
- Shallow plenum, new construction
- IC rated - for direct contact with insulation

#### Fire Resistance Specifications:

- Conforms to UL263, ASTM STD E119 and CAN/ULC-S101 for US and Canadian installations
- May be used in fire resistance floor-ceiling and roof-ceiling designs per UL Fire Classified Directories CDHW and CDHW7
- 1 hour fire rated floor/ceiling and roof/ceiling gypsum assembly per UL Design No. L500 & P500
- 2 hour fire rated floor/ceiling gypsum assembly per UL Design No. L500, L505, L511, L536, L538, L541, L556, L577, M500, M510, M521 & M543

#### Performance

Delivered Lumens	700L, 1000L, 1400L
LED Color Temperature	27K, 30K, 35K, 40K
Optional	30K, 700L  <small>Integrating Warmth to LED Dimming</small>
CRI	90+
Voltage	Dedicated 120V or MVOLT (120-277V)
Dimming	Forward/Reverse Phase or 0-10V
Optics	Narrow Flood or Wide Flood



# FIREWALL™ LED Downlight Series

## 4" Fire-Rated Integrated LED Downlight New Construction



### ORDERING INFORMATION

Housing and trim can be ordered together or separate, but will always ship separately.

#### 4" Housings

Example: IC1LEDFW 10LM 30K 90CRI WFL 120 FRPC

Series	Lumens	Color Temperature	CRI	Distribution	Voltage/Driver
IC1LEDFW 4" LED Firewall IC New Construction Downlight	<b>07LM</b> 700 Nominal Lumens	<b>27K</b> 2700K	<b>90CRI</b> 90+ CRI	<b>(blank)</b> Medium Flood (45°) <b>WFL</b> Wide Flood (65°)	<b>120 FRPC</b> 120V Forward/Reverse Phase Cut, 5% dim
	<b>10LM</b> 1000 Nominal Lumens	<b>30K</b> 3000K			<b>MVOLT ZT10</b> Multi-Volt (120-277), 0-10V, 10% dim
	<b>14LM</b> 1400 Nominal Lumens	<b>35K</b> 3500K			<b>MVOLT ZT1</b> Multi-Volt (120-277), 0-10V, 1% dim
		<b>40K</b> 4000K			<b>MVOLT EZ10</b> Multi-Volt (120-277), eidoLED 0-10V, 10% dim <b>MVOLT EZ1</b> Multi-Volt (120-277), eidoLED 0-10V, 1% dim



#### WarmDim Option

Example: IC1LEDFW WD 07LM 30K 90CRI 120V FRPC


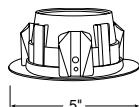



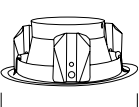


Series	Dynamic Feature	Lumens	Color Temperature	CRI	Distribution	Voltage/Driver
IC1LEDFW 4" LED Firewall IC New Construction Downlight	<b>WD</b> WarmDim	<b>07LM</b> 700 Nominal Lumens	<b>30K</b> 3000K	<b>90CRI</b> 90+ CRI	<b>(blank)</b> Medium Flood (45°) <b>WFL</b> Wide Flood (65°)	<b>120 FRPC</b> 120V Forward/Reverse Phase Cut, 5% dim




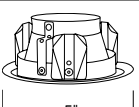
A+ Capable options indicated by this color background

### IC1LEDFW - Compatible Trims

#### OPEN/DOWNLIGHT TRIMS

Trim Series	Dimensions	Aperture	Catalog No.	Notes
 Baffle		3-3/8"	<b>14 BRZ</b> 4" Downlight Baffle Trim - Black, Bronze	 
			<b>14 BBL</b> 4" Downlight Baffle Trim - Black, Black Trim Ring	
			<b>14 BSC</b> 4" Downlight Baffle Trim - Black, Satin Chrome	
			<b>14 BWH</b> 4" Downlight Baffle Trim - Black, White Trim Ring	
			<b>14 WWH</b> 4" Downlight Baffle Trim - White, White Trim Ring	
 Cone		3-3/8"	<b>17 BWH</b> 4" Downlight Cone Trim - Black Cone, White Trim Ring	 
			<b>17 CWH</b> 4" Downlight Cone Trim - Clear Alzak® Cone, White Trim Ring	
			<b>17 GWH</b> 4" Downlight Cone Trim - Gold Cone, White Trim Ring	
			<b>17 HZWH</b> 4" Downlight Cone Trim - Haze Cone, White Trim Ring	
			<b>17 PTSC</b> 4" Downlight Cone Trim - Pewter Cone, Satin Chrome Trim Ring	
			<b>17 WHZBRZ</b> 4" Downlight Cone Trim - Wheat Haze Cone, Bronze Trim Ring	
			<b>17 WHZWH</b> 4" Downlight Cone Trim - Wheat Haze Cone, White Trim Ring	
			<b>17 WWH</b> 4" Downlight Cone Trim - White Cone, White Trim Ring	

#### PINHOLE TRIM

Trim Series	Dimensions	Aperture	Catalog No.
 Pinhole with Integral Shield		2"	<b>13 WH</b> 4" Pinhole with Integral Shield - White


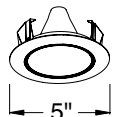


# FIREWALL™ LED Downlight Series

## 4" Fire-Rated Integrated LED Downlight New Construction

### IC1LEDFW - Compatible Trims


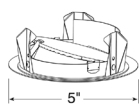
#### HYPERBOLIC TRIM

Trim Series	Dimensions	Aperture	Catalog No.	Notes
 4" Hyperbolic	 5"	3-3/8"	17HYP2 BWH	4" Downlight Cone Trim - Black Cone, White Trim Ring
			17HYP2 CWH	4" Downlight Cone Trim - Clear Alzak® Cone, White Trim Ring
			17HYP2 HZWH	4" Downlight Cone Trim - Haze Cone, White Trim Ring
			17HYP2 WHZBRZ	4" Downlight Cone Trim - Wheat Haze Cone, Bronze Trim Ring
			17HYP2 WHZWH	4" Downlight Cone Trim - Wheat Haze Cone, White Trim Ring
			17HYP2 WWH	4" Downlight Cone Trim - White Cone, White Trim Ring

Notes




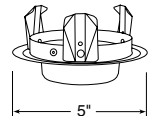

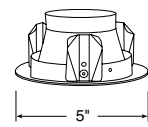

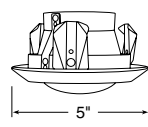

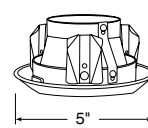
#### WALL WASH TRIM

Trim Series	Dimensions	Aperture	Catalog No.	Notes
 4" Lensed Wall Wash	 5"		39 CWH	4" Downlight Wall Wash Cone Trim - Clear Alzak®, White Trim Ring
			39 HZWH	4" Downlight Wall Wash Cone Trim - Haze, White Trim Ring
			39 WHZWH	4" Downlight Wall Wash Cone Trim - Wheat Haze, White Trim Ring
			39 WWH	4" Downlight Wall Wash Cone Trim - White, White Trim Ring

Notes



#### LENSED TRIMS

Trim Series	Dimensions	Aperture	Catalog No.	Notes
 Drop Opal	 5"		11 WH	4" Lensed Drop Opal Trim - White
 Frosted Lens w/ Clear Center	 5"		12 WWH	4" Frosted Lens with Clear Center Trim - White, White Trim Ring
			12 WSC	4" Frosted Lens with Clear Center Trim - Perimeter Frosted Lens, Satin Chrome Trim Ring
			12 WBRZ	4" Frosted Lens with Clear Center Trim - Perimeter Frosted Lens, Bronze Trim Ring
 Beveled Dome Lensed	 5"		4101 BRZ	4" Decorative Beveled Dome Lens Trim - Bronze
			4101 SC	4" Decorative Beveled Dome Lens Trim - Satin Chrome
			4101 WH	4" Decorative Beveled Dome Lens Trim - White
 Beveled Lensed	 5"		4102 BRZ	4" Decorative Beveled Lens Trim - Bronze
			4102 SC	4" Decorative Beveled Lens Trim - Satin Chrome
			4102 WH	4" Decorative Beveled Lens Trim - White

Notes



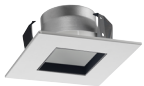
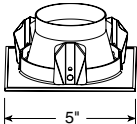



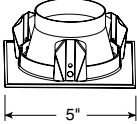



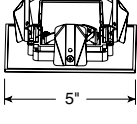





# FIREWALL™ LED Downlight Series


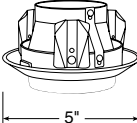



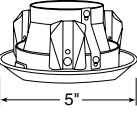



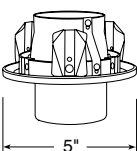
4" Fire-Rated Integrated LED Downlight  
New Construction

## IC1LEDFW - Compatible Trims

### SQUARE TRIMS

Trim Series	Dimensions	Aperture	Catalog No.		Notes
 Square Downlight	 5"	2-5/32"	17SQ BWH	4" Square Downlight Trim - Black, White Trim Ring	 
			17SQ HZWH	4" Square Downlight Trim - Haze, White Trim Ring	
			17SQ WHZWH	4" Square Downlight Trim - Wheat Haze, White Trim Ring	
			17SQ WWH	4" Square Downlight Trim - White, White Trim Ring	
 Square Pinhole	 5"	1-1/4"	13SQ WH	4" Square Pinhole Trim - White	 
 Square Frosted Lensed With Clear Center	 5"		12SQ WH	4" Square Frosted Lens with Clear Center Trim - White, White Trim Ring	  

### DECORATIVE TRIMS

Trim Series	Dimensions	Aperture	Catalog No.		Notes
 Beveled Cylinder	 5"	3"	4103 FROSTWH	4" Decorative Beveled Cylinder Trim - Frosted Glass, White Trim	 
			4103 FROSTSC	4" Decorative Beveled Cylinder Trim - Frosted Glass, Satin Chrome Trim	
 Beveled Cone	 5"	3-3/8"	4104 HZSC	4" Decorative Beveled Cone Trim - Haze, Satin Chrome Trim	 
			4104 WHZBRZ	4" Decorative Beveled Cone Trim - Wheat Haze, Bronze Trim	
 Glass Cylinder	 5"	2-5/8"	4150 MESHSC	4" Decorative Glass Cylinder Trim - Mesh Glass, Satin Chrome Trim	



# FIREWALL™ LED Downlight Series

## 4" Fire-Rated Integrated LED Downlight

### New Construction

## Specifications

### LED Light Engine

LED array attached to high purity aluminum, thermally conductive inner housing provides superior heat transfer to ensure long life of the LED

- Replaceable light engine mounts directly to inner housing assembly and incorporates the latest generation, high lumen output LED array
- LEDs are binned within a 3-step MacAdam Ellipse exceeding ENERGY STAR® requirements for superior fixture to fixture color uniformity
- 2700K, 3000K, 3500K, or 4000K color temperatures available
- 90 CRI minimum

### WarmDim

Proprietary patented micro processor controlled light engine emulates dimming performance of incandescent light source

- Replaceable light engine attached to high purity aluminum, thermally conductive inner housing provides superior heat transfer to ensure long life of the LEDs
- 3000K color temperature at full lumen output and warms to 2000K
- 90 CRI minimum throughout dimming range
- Design covered under Patent US 8,710,754.

### Optical System

Two field interchangeable optics available in medium flood (45° beam angle) and wide flood (65° beam angle)

- Computer-optimized reflector design with high reflectance finish coupled with a high transmission diffusing lens conceals the LEDs and produces uniform aperture luminance.

### LED Driver

Driver choice of dedicated 120 volt (120) driver or universal voltage (MVOLT) drivers that accommodate input voltages from 120-277 volts AC at 50/60Hz

- Power factor > 0.9 at 120V input
- 120 volt only driver is dimmable with the use of most incandescent, magnetic low voltage and electronic low voltage wall box dimmers
- Universal voltage drivers are dimmable with the use of most 0-10V wall box dimmers
- For a list of compatible dimmers, see [JUNOICLED-DIM](#)
- Easily accessible from below the ceiling via patent pending integrated intumescent flaps.

### Housing

Designed for use in IC (insulated ceiling) or non-IC construction

- Powder coated steel housing sealed for Air-Loc® compliance
- Integrated patent pending continuous single layer low smoke intumescent barrier ships assembled in housing for fire resistance
- Housing is vertically adjustable to accommodate up to a 1 1/2" ceiling thickness

### Junction Box

Pre-wired junction box provided with (6) 1/2" and (1) 3/4" knockouts, (4) knockouts for 12/2 or 14/2 NM cable and ground wire

- UL listed and cUL listed for through-branch wiring, maximum of 6 #12 branch circuit conductors
- Junction box provided with removable access plates
- Knock-outs equipped with pryout slots
- Quick connect electrical connectors supplied as standard for fast, secure installation.

### Mounting Frame

22-gauge die-formed galvanized steel mounting frame

- Rough-in section (junction box, mounting frame, housing and bar hangers) fully assembled for ease of installation
- Pre-installed flame resistant Air-Loc gasket applied to frame

### Real Nail 3 Bar Hangers

Patented (US Patent D552,969) Real Nail® 3 bar hangers: telescoping system permits quick placement of housing any where within 24" O.C. joists

- Includes removable nail for repositioning of fixture in wood joist construction

### Certifications

ENERGY STAR® Certified when used with select trims

- Certified to the high efficacy requirements of California T24 JA8-2019 with select trims
- UL listed for U.S. and Canada through-branch wiring, damp locations
- Lensed trims listed for wet location (covered ceiling)
- UL and cUL
- Conforms to UL 263, ASTM STD E119 and CAN/ULC-S101
- May be used in fire resistance floor-ceiling and roof-ceiling designs per UL Fire Classified Directories CDHW and CDHW7
- ASTM E283 certified Air-Loc

### Life

LED housing is designed to provide 50,000 hours of life

- 5 year limited warranty on LED components.

**Note:** Actual performance may differ as a result of end-user environment and application.

All values are design or typical values, measured under laboratory conditions at 25 °C.

Specifications subject to change without notice.

## ELECTRICAL DATA

### Dedicated 120V Only Driver Option (120 FRPC)

	700L	700L WD	1000L	1400L
Input Power	8.6W (+/-5%)	10W (+/-5%)	11.6W (+/-5%)	17.3W (+/-5%)
Input Current	0.07A	0.08A	0.10A	0.15A
Frequency	50/60Hz	50/60Hz	50/60Hz	50/60Hz
EMI/RFI	FCC Title 47 CFR, Part 15, Class B (residential)	FCC Title 47 CFR, Part 15, Class B (residential)	FCC Title 47 CFR, Part 15, Class B (residential)	FCC Title 47 CFR, Part 15, Class B (residential)
Minimum starting temp	-25°C	-20°C	-25°C	-25°C

## ELECTRICAL DATA

### Universal Voltage

#### MVOLT ZT10, ZT1, EZ10 & EZ1

INVOICES 2110, 2111, 2112 & 2113						
700L		1000L		1400L		
	120V	277V	120V	277V	120V	277V
Input Power	8.3W (+/-5%)	8.9W (+/-5%)	11.2W (+/-5%)	12.2W (+/-5%)	16W (+/-5%)	16.6W (+/-5%)
Input Current	0.07A	0.03A	0.10A	0.05A	0.14A	0.06A
Frequency	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz
EMI/RFI	FCC Title 47 CFR, Part 15, Class B (residential)	FCC Title 47 CFR, Part 15, Class B (residential)	FCC Title 47 CFR, Part 15, Class B (residential)	FCC Title 47 CFR, Part 15, Class B (residential)	FCC Title 47 CFR, Part 15, Class B (residential)	FCC Title 47 CFR, Part 15, Class B (residential)
Minimum starting temp	-20°C	-20°C	-20°C	-20°C	-20°C	-20°C