



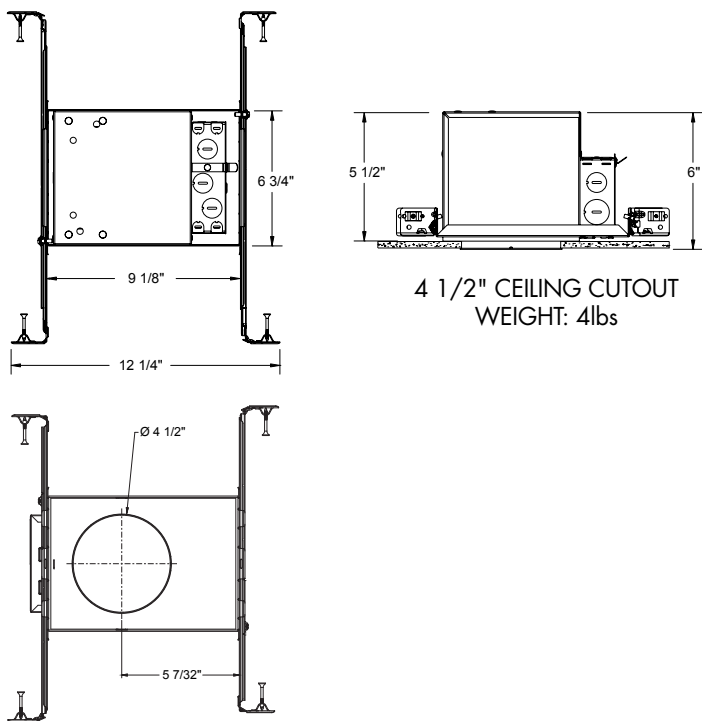
# FIREWALL™ LED Downlight Series

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

IC1LEDFW 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  WarmDim™ <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

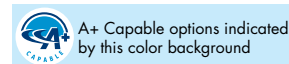
Series	Lumens	Color Temperature	CRI	Distribution	Voltage/Driver	
IC1LEDFW 4" LED Firewall IC New Construction Downlight	<b>07LM</b> 700 Nominal Lumens	<b>27K</b> 2700K	<b>90CRI</b> 90+ CRI	<b>(blank)</b> Medium Flood (45°)	<b>120 FRPC</b> 120V Forward/Reverse Phase Cut, 5% dim	
	<b>10LM</b> 1000 Nominal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


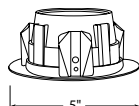



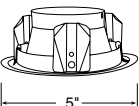


Example: IC1LEDFW WD 07LM 30K 90CRI 120V FRPC

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


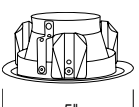


### IC1LEDFW - Compatible Trims

#### OPEN/DOWNLIGHT TRIMS

Trim Series	Dimensions	Aperture	Catalog No.	Notes
 Baffle	 5"	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	 5"	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	 5"	2"	<b>13 WH</b> 4" Pinhole with Integral Shield - White


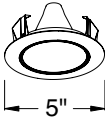


# FIREWALL™ LED Downlight Series

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

### IC1LEDFW - Compatible Trims

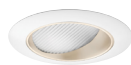
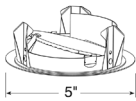
#### HYPERBOLIC TRIM

Trim Series	Dimensions	Aperture	Catalog No.	Notes
 4" Hyperbolic <sup>1</sup>		3-3/8"	<b>17HYP2 BWH</b>	4" Downlight Cone Trim - Black Cone, White Trim Ring
			<b>17HYP2 CWH</b>	4" Downlight Cone Trim - Clear Alzak® Cone, White Trim Ring
			<b>17HYP2 HZWH</b>	4" Downlight Cone Trim - Haze Cone, White Trim Ring
			<b>17HYP2 WHZBRZ</b>	4" Downlight Cone Trim - Wheat Haze Cone, Bronze Trim Ring
			<b>17HYP2 WHZWH</b>	4" Downlight Cone Trim - Wheat Haze Cone, White Trim Ring
			<b>17HYP2 WWH</b>	4" Downlight Cone Trim - White Cone, White Trim Ring




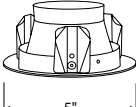

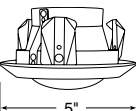
1 Hyperbolic trims not compatible with Warm Dim option.

#### WALL WASH TRIM

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



#### LENSED TRIMS

Trim Series	Dimensions	Aperture	Catalog No.	Notes
 Frosted Lens w/ Clear Center <sup>2</sup>			<b>12 WWH</b>	4" Frosted Lens with Clear Center Trim - White, White Trim Ring
			<b>12 WSC</b>	4" Frosted Lens with Clear Center Trim - Perimeter Frosted Lens, Satin Chrome Trim Ring
			<b>12 WBRZ</b>	4" Frosted Lens with Clear Center Trim - Perimeter Frosted Lens, Bronze Trim Ring
 Beveled Dome Lensed <sup>2</sup>			<b>4101 WH</b>	4" Decorative Beveled Dome Lens Trim - White



2 Trim is not ENERGY STAR® Certified with Warm Dim and WFL options.



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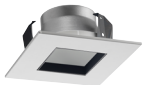
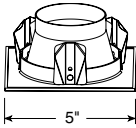

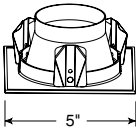

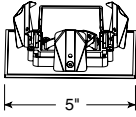


# FIREWALL™ LED Downlight Series

4" Fire-Rated Integrated LED Downlight  
New Construction

## IC1LEDFW - Compatible Trims

### SQUARE TRIMS

Trim Series	Dimensions	Aperture	Catalog No.	
 Square Downlight <sup>3</sup>	 5"	2-5/32"	<b>17SQ BWH</b>	4" Square Downlight Trim - Black, White Trim Ring
			<b>17SQ HZWH</b>	4" Square Downlight Trim - Haze, White Trim Ring
			<b>17SQ WHZWH</b>	4" Square Downlight Trim - Wheat Haze, White Trim Ring
			<b>17SQ WWH</b>	4" Square Downlight Trim - White, White Trim Ring
 Square Pinhole	 5"	1-1/4"	<b>13SQ WH</b>	4" Square Pinhole Trim - White
			<b>12SQ WH</b>	4" Square Frosted Lens with Clear Center Trim - White, White Trim Ring
 Square Frosted Lensed With Clear Center <sup>3</sup>	 5"			

**Notes**



<sup>3</sup> Trim is not ENERGY STAR® Certified or T24 with Warm Dim and WFL options.



<sup>3</sup> Trim is not ENERGY STAR® Certified or T24 with Warm Dim and WFL options.



# 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 ½" ceiling thickness

#### Junction Box

Pre-wired junction box provided with (6) ½" and (1) ¾" 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

	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