

Juno®

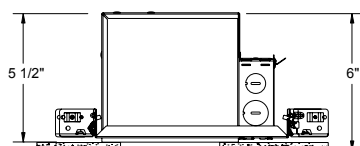
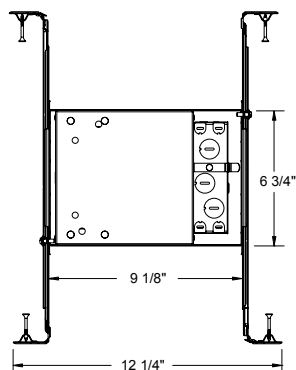
FIREWALL™ LED Downlight Series

4" Fire-Rated Integrated LED Downlight New Construction

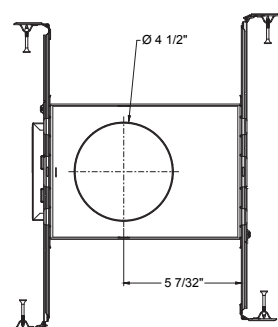
IC1LED FW Series



Dimensions



4 1/2" CEILING CUTOUT
WEIGHT: 4lbs



For use with standard Juno downlight trims:

Baffle



Cone



Hyperbolic



Wall Wash



Lensed



Square



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 separately, 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	07LM 700 Nominal Lumens	27K 2700K	90CRI 90+ CRI	(blank) Medium Flood (45°) WFL Wide Flood (65°)	120 FRPC 120V Forward/Reverse Phase Cut, 5% dim
	10LM 1000 Nominal Lumens	30K 3000K			MVOLT ZT10 Multi-Volt (120-277), 0-10V, 10% dim
	14LM 1400 Nominal Lumens	35K 3500K			MVOLT ZT1 Multi-Volt (120-277), 0-10V, 1% dim
		40K 4000K			MVOLT EZ10 Multi-Volt (120-277), eidoLED 0-10V, 10% dim MVOLT EZ1 Multi-Volt (120-277), eidoLED 0-10V, 1% dim



WarmDim Option

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


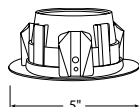



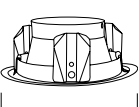


Series	Dynamic Feature	Lumens	Color Temperature	CRI	Distribution	Voltage/Driver
IC1LEDFW 4" LED Firewall IC New Construction Downlight	WD WarmDim	07LM 700 Nominal Lumens	30K 3000K	90CRI 90+ CRI	(blank) Medium Flood (45°) WFL Wide Flood (65°)	120 FRPC 120V Forward/Reverse Phase Cut, 5% dim




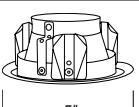
A+ Capable options indicated by this color background

IC1LEDFW - Compatible Trims

OPEN/DOWNLIGHT TRIMS

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

PINHOLE TRIM

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







FIREWALL™ LED Downlight Series

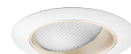
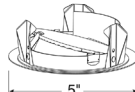


4" Fire-Rated Integrated LED Downlight
New Construction

IC1LEDFW - Compatible Trims


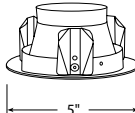



HYPERBOLIC TRIM

Trim Series	Dimensions	Aperture	Catalog No.		Notes
 4" Hyperbolic ¹	 5"	3-3/8"	17HYP2 BWH 17HYP2 CWH 17HYP2 HZWH 17HYP2 WHZBRZ 17HYP2 WHZWH 17HYP2 WWH	4" Downlight Cone Trim - Black Cone, White Trim Ring 4" Downlight Cone Trim - Clear Alzak® Cone, White Trim Ring 4" Downlight Cone Trim - Haze Cone, White Trim Ring 4" Downlight Cone Trim - Wheat Haze Cone, Bronze Trim Ring 4" Downlight Cone Trim - Wheat Haze Cone, White Trim Ring 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	 5"		39 BBL	4" Downlight Wall Wash Cone Trim - Black, Black Trim Ring	 
			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	

LENSED TRIMS

Trim Series	Dimensions	Aperture	Catalog No.		Notes
			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	
Frosted Lens w/ Clear Center²					2 Trim is not ENERGY STAR® Certified with Warm Dim and WFL options.

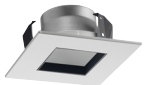
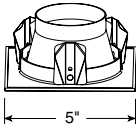

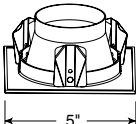

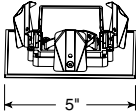


FIREWALL™ LED Downlight Series

4" Fire-Rated Integrated LED Downlight New Construction

IC1LEDFW - Compatible Trims

SQUARE TRIMS

Trim Series	Dimensions	Aperture	Catalog No.	
 Square Downlight ³	 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 ³	 5"		12SQ WH	4" Square Frosted Lens with Clear Center Trim - White, White Trim Ring

Notes



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



3 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 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

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