JUNO

FIREWALL™ LED Downlight Series

4" Fire-Rated Integrated LED Downlight
New Construction

Project:
Fixture Type:
Location:
Contact/Phone:

IC1LEDFW Series

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 servicability

- 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

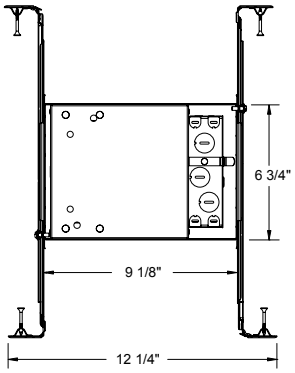
Applications

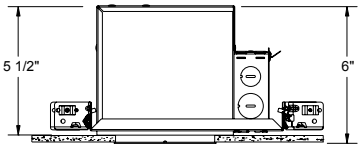
- Residential and commercial applications including multi-family, hotels, assisted living, dormitories and other multi-level construction
- Shallow plenum, new construction
- IC rated - for direct contact with insulation

Fire Resistance Specifications:

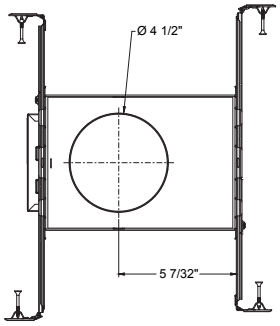
- Conforms to UL263, ASTM STD E119 and CAN/ULC-S101 for US and Canadian installations
- May be used in fire resistance floor-ceiling and roof-ceiling designs per UL Fire Classified Directories CDHW and CDHW7
- 1 hour fire rated floor/ceiling and roof/ceiling gypsum assembly per UL Design No. L500 & P500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

Dimensions





4 1/2" CEILING CUTOUT
WEIGHT: 4lbs



Performance

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

For use with standard Juno downlight trims:

Baffle

Cone

Hyperbolic

Wall Wash

Lensed

Square

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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	**07LM**	700 Nominal Lumens	**27K**	2700K	**90CRI**	90+ CRI	**(blank)**	Medium Flood (45°)	**120 FRPC**	120V Forward/Reverse Phase Cut, 5% dim
		10LM	1000 Nominal Lumens	**30K**	3000K			**WFL**	Wide Flood (65°)	**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), eldoLED 0-10V, 10% dim
										MVOLT EZ1	Multi-Volt (120-277), eldoLED 0-10V, 1% dim

WarmDim Bringing Warmth to LED Dimming

WarmDim Option

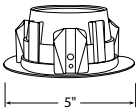
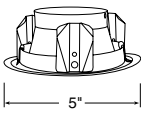
Example: IC1LEDFW WD 07LM 30K 90CRI 120V FRPC

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°)	**120 FRPC**	120V Forward/Reverse Phase Cut, 5% dim
										WFL	Wide Flood (65°)		

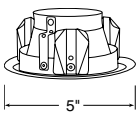
A+ Capable options indicated by this color background

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	TITLE 24 PART 6
			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	TITLE 24 PART 6
			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

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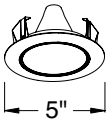
FIREWALL™ LED Downlight Series

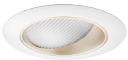
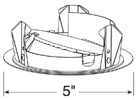
4" Fire-Rated Integrated LED Downlight
New Construction

IC1LEDFW - Compatible Trims

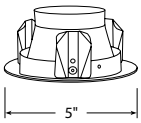
HYPERBOLIC TRIM

Trim Series	Dimensions	Aperture	Catalog No.		Notes
4" Hyperbolic [1]		3-3/8"	**17HYP2 BWH**	4" Downlight Cone Trim - Black Cone, White Trim Ring	1 Hyperbolic trims not compatible with Warm Dim option.
			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	

WALL WASH TRIM

Trim Series	Dimensions	Aperture	Catalog No.		Notes
 4" Lensed Wall Wash			**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
Frosted Lens w/ Clear Center			**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	

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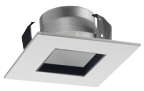
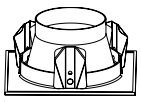
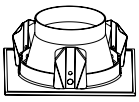
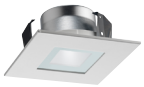
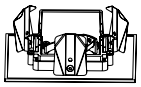
FIREWALL™ LED Downlight Series

4" Fire-Rated Integrated LED Downlight
New Construction

IC1LEDFW - Compatible Trims

SQUARE TRIMS

Trim Series	Dimensions	Aperture	Catalog No.		Notes
 Square Downlight [3]	 5"	2-5/32"	**17SQ BWH** **17SQ HZWH** **17SQ WHZWH** **17SQ WWH**	4" Square Downlight Trim - Black, White Trim Ring 4" Square Downlight Trim - Haze, White Trim Ring 4" Square Downlight Trim - Wheat Haze, White Trim Ring 4" Square Downlight Trim - White, White Trim Ring	3 Trim is not T24 with Warm Dim and WFL options.
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	3 Trim is not T24 with Warm Dim and WFL options.

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JUNO

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 • 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 JUNO|CLED-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
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

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