JUNO

Project:

Fixture Type:

Location:

Contact/Phone:

JUNO SLIMFORM™ LED IC RATED LED NEW CONSTRUCTION JUNCTION BOX SURFACE MOUNT DOWNLIGHT

FOR INSTALLATION INTO FIRE RATED CEILING ASSEMBLIES

IC1JB JSF

PRODUCT DESCRIPTION



IC LED Air-Loc® new construction junction box housing with energy efficient Juno SlimForm™ LED round surface mount trim for a complete downlight solution in multiple sizes 7" to 13" • May be installed in maximum 2 hour fire-rated ceiling assemblies per International Building Code Section 714 • Can be completely covered with insulation • Dimmable • Optional finish trims and shrouds available for custom, designer look similar to standard recessed downlights • Designed to provide 50,000 hours of life • 5 year limited warranty.

PRODUCT SPECIFICATIONS – TRIM

Surface Mount Trim Shallow, less than 1", solid ring with white finish • Non conductive fixture for shower light applications • Optional, field installable finish trims available for 7" version to change the exterior finish of fixture • Optional, field installable decorative baffle and cone shrouds for 7" version provides the aesthetic and source shielding similar to the experience of a fully recessed downlight.

Optics Light quide technology combined with diffusing lens conceals the LEDs from direct view and provides uniform lens luminance.

LED Light Engine LEDs mounted directly to heatsink designed to provide superior thermal management and ensure long life • 2700K, 3000K, 3500K or 4000K LED color temperature • LEDs binned for 4-step MacAdam ellipse color consistency • 90 CRI minimum.

LED Driver Choice of dedicated 120 volt (120) driver or universal voltage (MVOLT) driver that accommodates input voltages from 120-277 volts AC at 50/60Hz • Power factor > 0.9 at 120V input •120 volt driver is dimmable with the use of most incandescent, magnetic low voltage and electronic low voltage wall box dimmers • Universal voltage driver is dimmable with the use of most 0-10V wall box dimmers • External driver is only available on 7" model • For a list of compatible dimmers, see JUNOSLIMFORM-DIM.

Emergency Battery Option Available on fixture sizes 11" and larger • Battery factory assembled to fixture with integral test switch (EL option) • Drives LEDs for 90 minutes to meet Life Safety Code (NFPA-LSC), National Electrical Code (NEC), and UL requirements • EBX option provides back box without battery for consistent look when used in same space as fixtures with EL emergency option.

Electrical Connections Fixture provided with leads for direct wire connection.

Life Rated for 50,000 hours at >70% lumen maintenance.

PRODUCT SPECIFICATIONS – HOUSING

Junction Box Housing Designed for use in IC (insulated ceiling) or non-IC construction • Rough-in section (junction box, bar hangers) fully assembled for ease of installation • Painted steel 3-1/2" deep 4" square juction box • Provided with (4) 1/2"-3/4" concentric, (2) 1/2", (4) 3/4" and (2) 1" knockouts • cETLus listed for through-branch wiring, maximum 8 No. 12 AWG 90°C branch circuit conductors (4 in and 4 out).

Hardware Ships with retrofit mounting bracket, trim ring and quick connect whip; not required for JSF installation.

INSTALLATION

The IC1JB junction box housing must be installed per the International Building Code Section 714 guidelines to maintain up to a 2 hour ceiling fire rating. Precise ceiling cutout required. For use with ½" - 1-1/4" ceiling thickness.

Accessory bracket JSFMTGPLT 4X4 is required for installation.

Real Nail® 3 Bar Hangers Telescoping Real Nail 3 system permits quick placement of housing anywhere within 24" O.C. joists or suspended ceilings • Bars scored in two locations for fast, clean breaking, allowing housing installation in tight applications • Captive bugle-headed ring shank nail for quick one-step installation and easy removal with claw hammer for fixture relocation • Integral T-bar notch for suspended ceilings • Locking set screw to lock junction box housing in position • Design covered under US Patent D552,969.

LISTINGS

Labels ENERGY STAR® certified • Certified to the high efficacy requirements of California T24 JA8-2016 • Assembly ETL listed to UL1598 for US and Canadian through branch wiring, damp location • ETL listed to UL514A • Suitable for wet locations (covered ceilings).

Testing All reports are based on published industry procedures; actual performance may differ as a result of the end-user environment and applications. All values are design or typical values, measured under laboratory conditions at 25 °C.

Warranty 5-year limited warranty. Complete warranty terms located at www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx

Specifications subject to change without notice.

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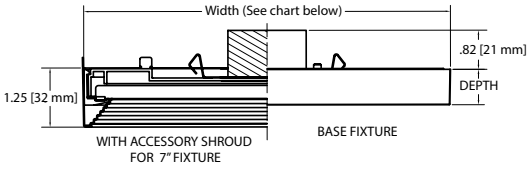
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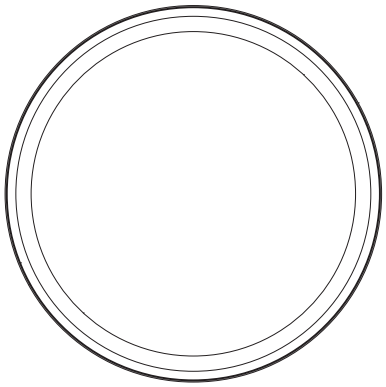
IC1JB JSF

DIMENSIONS

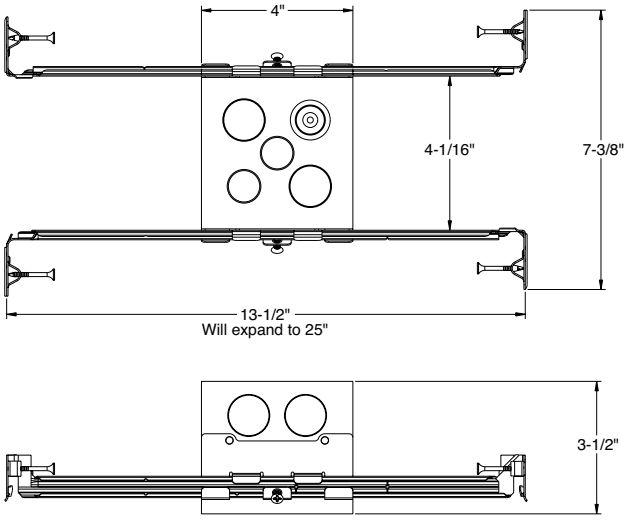
JSF TRIM



External driver available on 7" model only.



IC1JB



4 1/4" SQUARE CEILING CUTOUT MAX

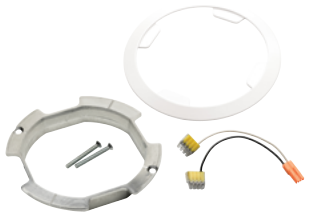
ROUND SPECIFICATIONS

	Width	Depth
JSF 7IN	7.77 (19.74)	0.75 (1.91)
JSF 11IN	11.08 (28.14)	0.9 (2.29)
JSF 13IN	13.05 (33.15)	0.9 (2.29)

All dimensions are in inches (centimeters) unless otherwise indicated.

RETROFIT MOUNTING BRACKET, TRIM RING AND QUICK CONNECT WHIP

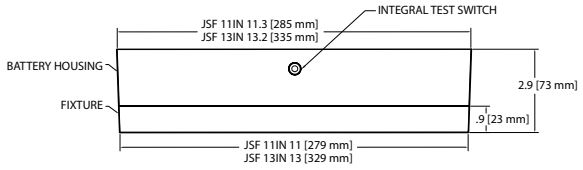
(Not required for JSF installation)



JSF PERFORMANCE DATA

	JSF 7IN		JSF 11IN		JSF 13IN	
	120V	**MVOLT**	**120V**	**MVOLT**	**120V**	**MVOLT**
Lumens	1000	1000	1300	1300	1800	1800
CRI	90CRI		90CRI		90CRI	
CCT	27K, 30K, 35K, 40K		27K, 30K, 35K, 40K		27K, 30K, 35K, 40K	
Voltage	120V	120V-277V	120V	120V-277V	120V	120V-277V
Input Power	13W	13W	15W	15W	20W	20W
Input Current	320MA	320MA	390MA	390MA	530MA	530MA
Frequency	50/60Hz		50/60Hz		50/60Hz	
Power Factor	>0.9		>0.9		>0.9	

EMERGENCY BATTERY FOR 11" AND 13"



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ORDERING INFORMATION

Example: IC1JB JSF 7IN 10LM 27K 90CRI 120 FRPC WH

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

Series	Trim Series	Size/Lumens	Color Temperature	CRI	Voltage/Driver	Finish	Emergency Battery[1,2]
IC1JB New Construction Junction Box for Fire Rated Ceiling Assemblies	JSF SlimForm Surface Mount Downlight - Round	7IN 10LM 7", 1000 Lumens 11IN 13LM 11", 1300 Lumens 13IN 18LM 13", 1800 Lumens	27K 2700K 30K 3000K 35K 3500K 40K 4000K	90CRI 90+ CRI	120 FRPC Dedicated 120V, Forward Reverse Phase Dimmnig MVOLT ZT Universal Voltage 120V-277V, 0-10V Dimming	WH White	EL Battery Back-up Option EBX Empty Back Box for Aesthetics

JSFMTGPLT 4X4 required for use of IC1JB with JSF.

ACCESSORIES

Series	
JSFMTGPLT 4X4	SlimForm mounting plate allows installation to 4X4 junction box

TRIM – Optional, field installable finish trim rings available to change the exterior finish of fixture.
Example: JSFTRIM 7IN BL

Series		Size		Finish	
JSFTRIM	SlimForm Accessory- Trim	7IN	7 inches	BL BZ SN	Black Bronze Satin Nickel



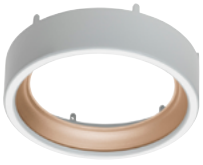
TRIM

SHROUD – Optional, field installable decorative baffle and cone shrouds provides the aesthetic and source shielding similar to the experience of a fully recessed downlight.
Example: JSFSHROUD 7IN DB WWH

Series		Size		Shroud Style		Finish	
JSFSHROUD	SlimForm Accessory Shroud - Round	7IN	7 inches	DB DC	Downlight Baffle Downlight Cone	WWH BWH[3] HZWH WHZWH	White trim, white shroud Black trim, white shroud Haze trim, white shroud Wheat Haze trim, white shroud



BAFFLE SHROUD



CONE SHROUD

Note:
1 Emergency battery available with 11IN and 13IN only.
2 Emergency battery is only available with MVOLT ZT.
3 BWH only available with downlight baffle.

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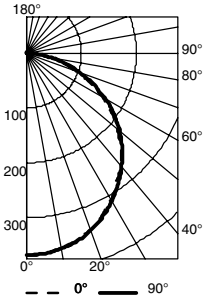
FOR INSTALLATION INTO FIRE RATED CEILING ASSEMBLIES

IC1JB JSF

PHOTOMETRICS

Distribution Curve **Distribution Data** **Coefficient of Utilization** **Illuminance Data at 30″ Above Floor for a Single Luminaire**

JSF 7IN 27K, 2700K LEDs, input watts: 12.8, delivered lumens: 1060, LM/W = 82.8, test no. ISF 33600, tested in accordance to IESNA LM-79.



CP Summary

	0°	90
0°	368	368
5°	366	367
15°	353	355
25°	326	329
35°	286	291
45°	243	247
55°	189	194
65°	128	134
75°	68	74
85°	16	21
90	0	1

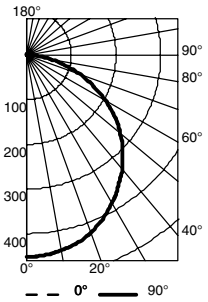
Coefficients of Utilization

	pf				20%					
	pc	80%			70%			50%		
	pw	70%	50%	30%	50%	30%	10%	50%	30%	10%
RCR	0	119	119	119	116	116	116	111	111	111
	1	109	104	99	101	97	94	97	94	91
	2	99	90	83	88	82	76	85	79	75
	3	90	79	71	77	70	64	74	68	62
	4	82	70	61	69	60	54	66	59	53
	5	75	62	53	61	53	46	59	52	46
	6	70	56	47	55	47	41	53	46	40
	7	65	51	42	50	42	36	49	41	35
	8	60	46	38	46	38	32	44	37	32
	9	56	43	34	42	34	29	41	34	29
	10	53	39	31	39	31	26	38	31	26

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Fixture
0°- 30°	286	27.0	27.0
0°- 40°	468	44.1	44.1
0°- 60°	830	78.3	78.3
0°- 90°	1060	100.0	100.0
90°- 120°	0	0.0	0.0
90°- 130°	0	0.0	0.0
90°- 150°	0	0.0	0.0
90°- 180°	0	0.0	0.0
0°- 180°	1060	100.0	100.0

JSF 11IN 27K, 2700K LEDs, input watts: 15.2, delivered lumens: 1305, LM/W = 85.9, test no. ISF 33661, tested in accordance to IESNA LM-79.



CP Summary

	0°	90
0°	451	451
5°	450	450
15°	435	436
25°	404	405
35°	357	358
45°	305	304
55°	239	241
65°	164	165
75°	90	89
85°	25	25
90	1	1

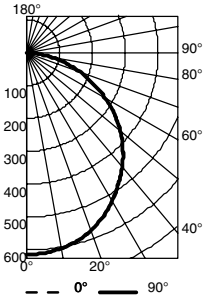
Coefficients of Utilization

	pf				20%					
	pc	80%			70%			50%		
	pw	70%	50%	30%	50%	30%	10%	50%	30%	10%
RCR	0	119	119	119	116	116	116	111	111	111
	1	109	104	99	101	97	94	97	94	91
	2	99	90	83	88	82	77	85	79	75
	3	90	79	71	77	70	64	74	68	62
	4	82	70	61	69	60	54	66	59	53
	5	75	62	53	61	53	46	59	52	46
	6	70	56	47	55	47	40	53	46	40
	7	65	51	42	50	42	36	49	41	35
	8	60	46	38	46	38	32	44	37	32
	9	56	43	34	42	34	29	41	34	28
	10	53	39	31	39	31	26	38	31	26

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Fixture
0°- 30°	352	26.9	26.9
0°- 40°	575	44.1	44.1
0°- 60°	1021	78.3	78.3
0°- 90°	1305	100.0	100.0
90°- 120°	0	0.0	0.0
90°- 130°	0	0.0	0.0
90°- 150°	0	0.0	0.0
90°- 180°	0	0.0	0.0
0°- 180°	1305	100.0	100.0

JSF 13IN 27K, 2700K LEDs, input watts: 20.2, delivered lumens: 1779, LM/W = 88, test no. ISF 33663, tested in accordance to IESNA LM-79.



CP Summary

	0°	90
0°	613	613
5°	611	612
15°	592	593
25°	550	550
35°	486	486
45°	413	414
55°	327	327
65°	225	225
75°	122	122
85°	34	34
90	1	1

Coefficients of Utilization

	pf				20%					
	pc	80%			70%			50%		
	pw	70%	50%	30%	50%	30%	10%	50%	30%	10%
RCR	0	119	119	119	116	116	116	111	111	111
	1	109	104	99	101	97	94	97	94	91
	2	99	90	83	88	82	76	85	79	75
	3	90	79	71	77	70	64	74	68	62
	4	82	70	61	69	60	54	66	59	53
	5	75	62	53	61	53	46	59	52	46
	6	70	56	47	55	47	40	53	46	40
	7	65	51	42	50	42	36	48	41	35
	8	60	46	38	46	37	32	44	37	32
	9	56	43	34	42	34	29	41	34	28
	10	53	39	31	39	31	26	38	31	26

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Fixture
0°- 30°	478	26.9	26.9
0°- 40°	782	44.0	44.0
0°- 60°	1390	78.2	78.2
0°- 90°	1778	100.0	100.0
90°- 120°	0	0.0	0.0
90°- 130°	0	0.0	0.0
90°- 150°	0	0.0	0.0
90°- 180°	1	0.0	0.0
0°- 180°	1779	100.0	100.0

For 30K fixtures, use 1.02 multiplier; For 35K fixtures, use 1.03 multiplier, For 40K fixtures, use 1.07 multiplier.

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