



Project: \_\_\_\_\_

Fixture Type: \_\_\_\_\_

Location: \_\_\_\_\_

Contact/Phone: \_\_\_\_\_

## PRODUCT DESCRIPTION

Patent pending dedicated LED, Air-Loc® sealed new construction housing with integral internally adjustable light engine • Double wall, shallow housing construction • Can be completely covered with insulation and installs in 2 x 6 construction • Fully sealed housing stops infiltration and exfiltration of air, reducing heating and cooling costs without the use of additional gaskets • LED housing is designed to provide 50,000 hours of life • 5 year limited warranty on LED components.

## ENVIRONMENTALLY FRIENDLY, ENERGY EFFICIENT

- No harmful ultraviolet or infrared wavelengths
- No lead or mercury, RoHS compliant
- Comparable light output to 65W incandescent

## PRODUCT SPECIFICATIONS

**LED Light Engine** LED array attached to cast aluminum sliding heatsink integrated directly with 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 4100K color temperatures available • 90 CRI minimum.

**Optics** Three field interchangeable, TIR optics available in 18°, 30° and 40° beam angles • Module can accommodate one 2-inch diameter beam control lens or filter • Adjustable light engine module provides up to 35° vertical adjustment and 360° rotation.

**Aesthetic Trim Selections** Aluminum angle-cut reflector in clear, black, pewter, white, haze and wheat haze • Shadow free, knife edge design blends seamlessly into ceiling.

**LED Driver** Choice of dedicated 120 volt driver or universal voltage driver that accommodates 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 driver is dimmable with the use of most 0-10V wall box dimmers • For a list of compatible dimmers, see [JUNOICLED-DIM](#).

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

**Labels** ENERGY STAR® Qualified • Certified to the high efficacy requirements of California T24 • UL listed for U.S. and Canada for through-branch wiring, damp locations • Union made • UL and cUL.

**Testing** All reports are based on published industry procedures; field performance may differ from laboratory performance.

Product specifications subject to change without notice.

## HOUSING FEATURES

**Housing** Designed for use in IC (insulated ceiling) or non-IC construction • Aluminum housing sealed for Air-Loc® compliance • 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 4 #12 branch circuit conductors • Junction box provided with removable access plates • Knockouts 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.

**Real Nail 3 Bar Hangers** Patented (US Patent D552,969) Real Nail® 3 bar hangers: telescoping system permits quick placement of housing anywhere within 24" O.C. joists or suspended ceilings • Includes removable nail for repositioning of fixture in wood joist construction • Integral T-bar notch and clip for suspended ceilings.

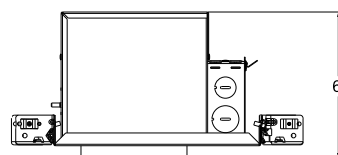
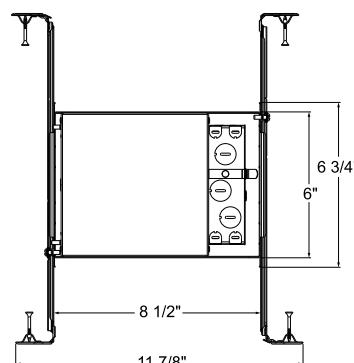
# 4" IC 700 LUMEN INTERNALLY ADJUSTABLE LED DOWNLIGHT NEW CONSTRUCTION

IC4AL RECESSED HOUSING

ANGLE CUT TRIMS



## DIMENSIONS



4 1/2" CEILING CUTOUT

## ELECTRICAL DATA

### Dedicated 120V Only Driver Option (-1)

120V	
Input Power	10.5W (+/-5%)
Input Current	0.10A
Frequency	50/60Hz
EMI/RFI	FCC Title 47 CFR, Part 15, Class B (Residential)
Minimum starting temp	-25°C (-13°F)

### Universal Voltage Driver (-U)

120V		277V
Input Power	10.0W (+/-5%)	10.0W (+/-5%)
Input Current	0.09A	0.04A
Frequency	50/60Hz	50/60Hz
EMI/RFI	FCC Title 47 CFR, Part 15, Class A (Commercial)	FCC Title 47 CFR, Part 15, Class A (Commercial)
Minimum starting temp	-20°C (-4°F)	-20°C (-4°F)

### Lutron Hi-Lume® LED Driver (-L)

120V		277V
Input Power	11.1W (+/-5%)	11.3W (+/-5%)
Input Current	0.10A	0.05A
Frequency	50/60Hz	50/60Hz
EMI/RFI	FCC Title 47 CFR, Part 15, Class A (Commercial)	FCC Title 47 CFR, Part 15, Class A (Commercial)
Minimum starting temp	0°C (32°F)	0°C (32°F)

# 4" IC 700 LUMEN INTERNALLY ADJUSTABLE LED DOWNLIGHT NEW CONSTRUCTION

IC4AL RECESSED HOUSING


ANGLE CUT TRIMS

**ORDERING INFORMATION:** Housing and trim each ordered separately.Example: **IC4AL-3K-F-1**

Series	Color Temperature	Beam Optics	Input Voltage
<b>IC4AL</b>	<b>27K</b> 2700K <b>3K</b> 3000K <b>35K</b> 3500K <b>41K</b> 4100K	<b>S</b> 18° Spot <b>N</b> 30° Narrow Flood <b>F</b> 40° Flood	<b>1</b> Dedicated 120V Only (Forward Phase + ELV Dimmable) <b>U</b> Universal Voltage 120-277V (0-10V Dimmable) <b>L*</b> Lutron Hi-Lume® 3-Wire Dimming EcoSystem Compatible

† Not ENERGY STAR® or T24 compliant

Example: **47LHZ-WH**

Trim/Description
 <b>47LC-WH</b> Angle Cut Cone - Clear Alzak® <b>47LB-WH</b> Angle Cut Cone - Black Alzak® <b>47LPT-SC</b> Angle Cut Cone - Pewter Alzak® <b>47LW-WH</b> Angle Cut Cone - Gloss White <b>47LHZ-WH</b> Angle Cut Cone - Haze <b>47LWHZ-WH</b> Angle Cut Cone - Wheat Haze <b>47LWHZ-ABZ</b> Angle Cut Cone - Wheat Haze

Trim Size: 5" O.D.

Trim Finish: ABZ - Classic Aged Bronze, SC - Satin Chrome, WH - White.

Alzak is a registered trademark of Alcoa Corp.

Note: In Canada when insulation is present, Type IC fixtures must be used.

**ACCESSORIES**

Catalog No.	Description
<b>T741</b>	Med. Pink Color Filter
<b>T742</b>	Warm Red Color Filter
<b>T743</b>	Daylight Blue Color Filter
<b>T744</b>	Med. Blue Color Filter
<b>T745</b>	Med. Amber Color Filter
<b>T746</b>	Med. Green Color Filter
<b>T7401</b>	Red Dichroic Lens
<b>T7403</b>	Med. Green Dichroic Lens
<b>T7404</b>	Med. Blue Dichroic Lens
<b>T7405</b>	Yellow Dichroic Lens
<b>T7406</b>	Magenta Dichroic Lens
<b>T7411</b>	Blue Green Dichroic Lens
<b>T7416</b>	Daylight Blue Correction Lens
<b>T7420</b>	Diffuse Spread Lens
<b>T7422</b>	UV Filter Lens
<b>T7459BL</b>	Hexcell Louver
<b>T7478</b>	Linear Spread Lens
<b>T7477</b>	Prismatic Lens
<b>TIR-2-SP</b>	18° Spot Optic
<b>TIR-2-NFL</b>	30° Narrow Flood Optic
<b>TIR-2-FL</b>	40° Flood Optic

# 4" IC 700 LUMEN INTERNALLY ADJUSTABLE LED DOWNLIGHT NEW CONSTRUCTION

## IC4AL RECESSED HOUSING ANGLE CUT TRIMS

### PHOTOMETRIC REPORT

Test Report: PT09153001R

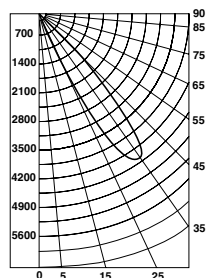
Catalog No: IC4AL-35K-S-1

with 47LHZ-WH  
and Spot Optic

Watts: 10.5

Lumens: 799

Luminaire LPW: 76



### Candlepower Distribution (Candelas)

Degrees  
Vertical Candela

0°	135
5°	193
10°	320
15°	571
20°	979
25°	1908
30°	3570
35°	4589
40°	3376
45°	1694
50°	833
55°	486
60°	167
65°	40
70°	15
75°	5
80°	0
85°	0
90°	0

### PHOTOMETRIC REPORT

Test Report: PT09152921R

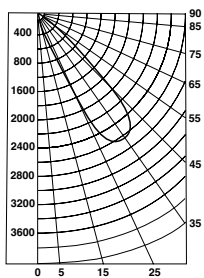
Catalog No: IC4AL-35K-N-1

with 47LHZ-WH and  
Narrow Flood Optic

Watts: 10.5

Lumens: 809

Luminaire LPW: 77



### Candlepower Distribution (Candelas)

Degrees  
Vertical Candela

0°	131
5°	199
10°	297
15°	561
20°	1203
25°	2004
30°	2488
35°	2637
40°	2434
45°	2225
50°	1201
55°	589
60°	228
65°	70
70°	33
75°	11
80°	1
85°	0
90°	0

### PHOTOMETRIC REPORT

Test Report: PT09152901R

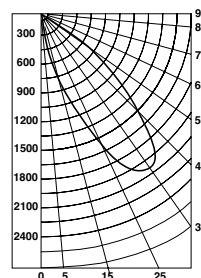
Catalog No: IC4AL-35K-F-1

with 47LHZ-WH  
and Flood Optic

Watts: 10.5

Lumens: 835

Luminaire LPW: 80



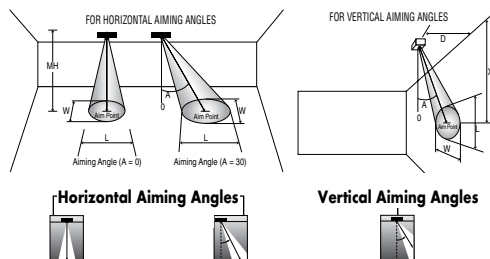
### Candlepower Distribution (Candelas)

Degrees  
Vertical Candela

0°	164
5°	293
10°	518
15°	831
20°	1232
25°	1611
30°	1858
35°	1923
40°	1790
45°	1501
50°	1105
55°	721
60°	345
65°	164
70°	65
75°	19
80°	0
85°	0
90°	0

**CB** • Centerbeam candlepower  
**FC** • Footcandles at beam center (aim point)

In vertical aiming applications, aim point (X) is determined by dividing distance from the wall (D) by the tangent of the desired aim angle (A) (0.5774 for 30°, 1.0 for 45°).



Beam TypeBeam Spread°CBCP				0°				30°				30°				
				MH	FC	L	W	FC	L	W	D	FC	X	L	W	
IC4AL LED, 3500K Spot	S	18°	4589	4	287	1.3	1.3	186	1.7	1.5	2	143	3.5	2.7	1.3	
				6	127	1.9	1.9	83	2.6	2.2	3	64	5.2	4.1	1.9	
				8	72	2.5	2.5	47	3.4	2.9	4	36	6.9	5.5	2.5	
				10	46	3.2	3.2	30	4.3	3.7	5	23	8.7	6.9	3.2	
				12	32	3.8	3.8	21	5.1	4.4	6	16	10.4	8.2	3.8	
IC4AL LED, 3500K Narrow Flood	N	30°	2637	4	165	2.1	2.1	107	2.9	2.5	2	82	3.5	5.5	2.1	
				6	73	3.2	3.2	48	4.4	3.7	3	37	5.2	8.2	3.2	
				8	41	4.3	4.3	27	5.9	5.0	4	21	6.9	10.9	4.3	
				10	26	5.4	5.4	17	7.3	6.2	5	13	8.7	13.7	5.4	
				12	18	6.4	6.4	12	8.8	7.4	6	9	10.4	16.4	6.4	
IC4AL LED, 3500K Flood	F	40°	1923	4	120	2.9	2.9	78	4.1	3.4	2	60	3.5	9.7	2.9	
				6	53	4.4	4.4	35	6.1	5.0	3	27	5.2	14.5	4.4	
				8	30	5.8	5.8	20	8.1	6.7	4	15	6.9	19.3	5.8	
				10	19	7.3	7.3	12	10.2	8.4	5	10	8.7	24.2	7.3	
				12	13	8.7	8.7	9	12.2	10.1	6	7	10.4	29.0	8.7	

Multipliers:  
27K - 0.93  
3K - 0.96  
35K - 1.00  
41K - 1.03



1300 S. Wolf Road • Des Plaines, IL 60018 • Phone (847) 827-9880 • Fax (847) 827-2925  
220 Chrysler Drive • Brampton, Ontario • Canada L6S 6B6 • Phone (905) 792-7335 • Fax (905) 792-0064  
Visit us at [www.junolightinggroup.com](http://www.junolightinggroup.com)

Printed in U.S.A. ©2016 Acuity Brands Lighting, Inc.