# 4" IC 600 LUMEN LED DOWNLIGHT NEW CONSTRUCTION

IC1LEDG4 RECESSED HOUSING





# **OPEN TRIMS**



#### **PRODUCT DESCRIPTION**

Dedicated LED, Air-Loc® sealed new construction housing with integral light engine  $\bullet$  Double wall, shallow housing construction allows for fit in  $2 \times 6$  construction  $\bullet$  Can be completely covered with insulation  $\bullet$  Fully sealed housing stops infiltration and exfiltration of air, reducing heating and air cooling costs without the use of additional gaskets  $\bullet$  LED housing is designed to provide 50,000 hours of life and is compatible with many standard Juno trims  $\bullet$  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 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 STARs requirements for superior fixture to fixture color uniformity • 2700K, 3000K, 3500K, or 4100K color temperatures available • 90 CRI minimum.

**Optical System** Computer-optimized reflector design with high reflectance finish coupled with a high transmission diffusing lens conceals the LEDs and produces uniform aperture luminance • Deep regression of lens produces a low glare, efficient system that can produce over 600 lumens with select trims (see page 2 for details) using less than 12W\*.

**Aesthetic Trim Selections** Compatible with wide selection of existing Juno trims • 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 Mounted inside housing for easy access from below ceiling.

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

**Labels** ENERGY STAR® Qualified when used with select trims • Certified to the high efficacy requirements of California T24 with select trims • UL listed for U.S. and Canada through-branch wiring, damp locations • Union made • III and cl.II

**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 1½" ceiling thickness.

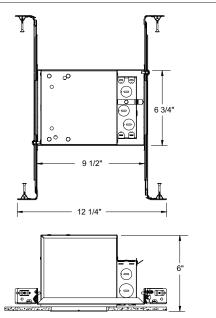
Junction Box Pre-wired junction box provided with (6) ½" and (1) ¾" knockouts, (4) knockouts for 12/2 or 14/2 NM cable and ground wire

• UL listed and cUL listed for through-branch wiring, maximum 6 #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** Telescoping Real Nail 3® 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 • Design covered under Patents US5,505,419 and D552,969.

### **DIMENSIONS**



4 1/2" CEILING CUTOUT

### **ELECTRICAL DATA**

## **Dedicated 120V Only Driver Option**

	1200	
Input Power	11.7W (+/-5%)	
Input Current	0.10A	
Frequency	50/60Hz	
EMI/RFI	FCC Title 47 CFR, Part 15,	
	Class B (residential)	
Minimum starting temp	-25°C	

### **ELECTRICAL DATA**

Universal Voltage				
	120V	277V		
Input Power	12.5W (+/-5%)	12.6W (+/-5%)		
Input Current	0.11A	0.05A		
Frequency	50/60Hz	50/60Hz		
EMI/RFI	FCC Title 47 CFR, Part 15,	FCC Title 47 CFR, Part 15,		
	Class A (non-consumer)	Class A (non-consumer)		
Minimum starting temp	-40°C	-40°C		

<sup>\*</sup> Nominal input wattage @ 120-volt operation with dedicated 120-volt driver under stable operating conditions.

# 4" IC 600 LUMEN LED DOWNLIGHT **NEW CONSTRUCTION**

IC1LEDG4 RECESSED HOUSING

# **OPEN TRIMS**

**ORDERING INFORMATION:** Housing and trim each ordered separately.

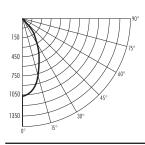
Color	Temperature									
			Input Voltage			Trim/D	escription	n		
27K 3K 35K 41K	2700K 3000K 3500K 4100K	1	Dedicated 120V Only (Forward Phase + ELV dimmable)		13-WH	2" Pinhole with Integral Shield		410		Beveled Cylinder
		U	Universal Voltage, 120-277V (0-10V dimmable)	<b>□ □ 124</b>	14B-WH' 14B-SC' 14B-ABZ' 14B-BL' 14W-WH	Black Baffle Black Baffle Black Baffle Black Baffle White Baffle	(See light	410 410		Beveled Cone - Haze Beveled Cone - Wheat Haze
				<b>€</b> 124	17C-WH 17G-WH 17B-WH 17PT-SC 17W-WH 17HZ-WH 17WHZ-WH 17WHZ-WH	Cone - Clear Alzak® Cone - Gold Alzak® Cone - Black Alzak® Cone - Pewter Alzak® Cone - Gloss White Cone - Haze Cone - Wheat Haze Cone - Wheat Haze	Tr Tr So	41! rim Size: 5' rim Finish: C - Satin C	" O.D. ABZ - Classic Ag Chrome, WH - Wh	ite.
	35K	<b>35K</b> 3500K	<b>35K</b> 3500K <b>41K</b> 4100K	35K 3500K (Forward Phase + ELV dimmable)  U Universal Voltage, 120-277V	35K 3500K 41K 4100K (Forward Phase + ELV dimmable) U Universal Voltage, 120-277V (0-10V dimmable)	35K 3500K 41K 4100K (Forward Phase + ELV dimmoble) U Universal Voltage, 120-277V (0-10V dimmoble) 14B-BL' 14B-BL' 14W-WH 17G-WH 17B-WH 17PF-SC 17W-WH 17W-WH 17WHZ-WH 17WHZ-WH 17WHZ-WH 17WHZ-WBZ	14B-ML	35K 41K 4100K  Forward Phase + ELV dimmable)  U Universal Voltage, 120-277V (0-10V dimmable)  14B-BL' 14B-BL' 14B-BL' 14W-WH White Baffle  17G-WH Cone - Gold Alzak* Cone - Black Alzak* Cone - Glack Alzak* Cone - Wheat Alzak* Cone - Wheat Haze Con	35K 3500K 41K 4100K (Forward Phase + ELV dimmable)  U Universal Voltage, 120-277V (0-10V dimmable)  14B-WH' 14B-BL' 14	35K 3500K 41K 4100K (Forward Phase + ELV dimmable)  U Universal Voltage, 120-277V (0-10V dimmable)  14B-MBL' Black Baffle White Baffle White Baffle Trim-Star Cone - Gold Alzake Cone - Black Alzake Cone - Black Alzake Cone - Black Alzake Tyr-Star Cone - Gloss White Trim-Sinish: ABZ - Classic Agr Sc - Safin Chrome, WH - White Baffle Trim Finish: ABZ - Classic Agr Sc - Safin Chrome, WH - White Black Baffle Black Baffle Black Baffle Black Baffle Black Baffle Black Baffle Trim-Sinish: ABZ - Classic Agr Sc - Safin Chrome, WH - White Black Baffle Black

## PHOTOMETRIC REPORT

Test Report #: PT02141303R Catalog No: IC1LEDG4-35K-1 with 14W-WH Trim

**Luminaire Spacing Criterion:** 0.72

Luminaire LPW: 56



## CANDLEPOWER **DISTRIBUTION**

(Candelas)

Degrees	
Vertical	0°
0	1055
5	1026
15	791
25	425
35	146
45	38
55	16
65	7
75	5
85	0
90	0
	( - 0.89 - 0.94 ( - 1.03

## **AVERAGE INITIAL FOOTCANDLES**

Multiple Units (Square Array, 60'x60' room) Ceiling 80% Wall 50% Floor 20%

Spacing	RCR1	RCR3	RCR5
4.0′	46	40	35
5.0´	29	26	23
6.0′	20	18	16
7.0′	17	14	13
8.0′	13	11	10
9.0*	10	9	8
10.01	7	L	

### **ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixture
0 - 30°	507	N/A	76.5
0 - 40°	603	N/A	91.0
0 - 60°	649	N/A	98.0
0 - 90°	663	N/A	100.0

## **INITIAL FOOTCANDLES**

(One Unit, 11.8W, 44.2° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
4	65.9	3.2'
6	29.3	4.9'
8	16.5	6.5'
10	10.6	8.1′

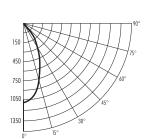
# LUMINANCE (Average cd/m²)

	Average	
Degrees	Luminance	
45	8859	
55	4517	
65	2855	
75	2880	
85	1425	

### PHOTOMETRIC REPORT

Test Report #: LTL26327R Catalog No: IC1LEDG4-35K-1 with 17C-WH Trim

**Luminaire Spacing Criterion:** 0.70 **Luminaire LPW: 59** 



## **CANDLEPOWER DISTRIBUTION**

(Candelas)

Degrees	i			
Vertical	0°			
0	1072			
5	1054			
15	785			
25	441			
35	181			
45	59			
55	18			
65	0			
75	0			
85	0			
90	0			
Multiplier: 27K - 0.89 3K - 0.94 41K - 1.03				

## **AVERAGE INITIAL FOOTCANDLES**

Multiple Units (Square Array, 60'x60' room)

Ceiling 803	% VVall 50	J% Floor 2	0%
Spacing	RCR1	RCR3	RCR5
4.0′	48	42	37
5.0°	31	27	24
6.0´	22	19	16
7.0′	17	15	13
8.0°	14	12	11
9.0′	11	9	8
10.0′	8	7	6

## **ZONAL LUMEN SUMMARY**

Ī	Zone	Lumens	%Lamp	%Fixture	
	0 - 30°	516	N/A	73.9	
	0 - 40°	631	N/A	90.5	
	0 - 60°	695	N/A	99.6	
-	0 - 90°	698	N/A	100.0	

## **INITIAL FOOTCANDLES**

(One Unit, 11.8W, 43.9° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
4	67.0	3.2'
6	29.8	4.8'
8	16.8	6.4'
10	10.7	8.1′

## LUMINANCE (Average cd/m²)

	Average	
Degrees	Luminance	
45	13321	
55	5080	
65	766	
75	0	
85	0	

Fixtures tested to IES recommended standard for solid state lighting per LM-79-08. Photometric performance on a single unit represents a baseline of performance for the fixture. Results may vary in the field.