



Project: _____

Fixture Type: _____

Location: _____

Contact/Phone: _____

5" IC 1400 LUMEN LED DOWNLIGHT NEW CONSTRUCTION

IC1420LEDG4 RECESSED HOUSING

**OPEN TRIMS**

PRODUCT DESCRIPTION

Dedicated LED, Air-Loc® sealed new construction housing with integral light engine • Housing allows for fit in 2 x 8 construction • Can be completely covered with insulation • Fully sealed housing stops infiltration and exfiltration of air, reducing heating and air cooling costs without the use of additional gaskets • LED housing is designed to provide 50,000 hours of life and is compatible with many standard Juno trims • 5 year limited warranty on LED components.

ENVIRONMENTALLY FRIENDLY, ENERGY EFFICIENT

- No harmful ultraviolet or infrared wavelengths
- No lead or mercury
- Comparable light output to 120W PAR38, BR40 incandescent or 32W compact fluorescent

PRODUCT SPECIFICATIONS

LED Light Engine LED array integrated to thermally conductive housing provides uninterrupted heat transfer to ensure long life of the LED

- Replaceable light engine mounts directly to housing 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.

Optical System Computer-optimized reflector design with high reflectance white 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 produces 1400 lumens typical with select trims • Wide flood distribution shipped as standard with optional optic accessories available and sold separately.

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 [JUNOICLED-DIM](#)

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

Labels ENERGY STAR® Qualified when used with select baffle and cone trims • Certified to the high efficacy requirements of California T24 with select trims • UL listed for U.S. and Canada, through-branch wiring and 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

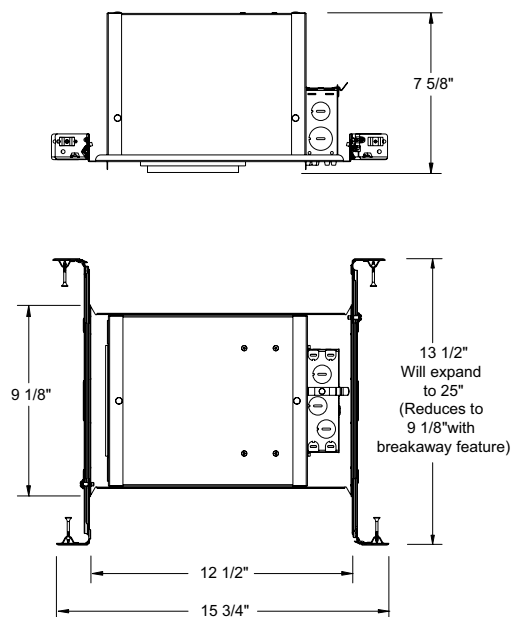
Housing Designed for use in IC (insulated ceiling) or non-IC construction • Aluminum housing sealed for Air-Loc® compliance • Housing is vertically adjustable to accommodate up to a 2" ceiling thickness.

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 8 #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.

DIMENSIONS



5 5/8" CEILING CUTOUT

ELECTRICAL DATA

Dedicated 120V Only Driver Option

120V	
Input Power	20.3W (+/-5%)
Input Current	0.17A
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	20.3W (+/-5%)	20.8W (+/-5%)
Input Current	0.17A	0.08A
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	-40°C	-40°C

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ORDERING INFORMATION: Housing, trim and accessories each ordered separately.

Example: IC1420LEDG4-3K-1



Housing	Color Temperature	Input Voltage
IC1420LEDG4	27K 2700K 3K 3000K 35K 3500K 41K 4100K	1 Dedicated 120V Only (Forward Phase + ELV dimmable) U Universal Voltage, 120-277V (0-10V dimmable)

ACCESSORIES

Catalog No.	Description
LEDOPTICG3-M	Medium Flood Optic (50°)
LEDOPTICG3-N	Narrow Flood Optic (37°)
LEDOPTICG3-S	Spot Optic (10°)

To order, specify catalog number.

Example: 205W-WH

Trim/Description	
 205W-WH White Baffle 205B-WH Black Baffle 205B-SC Black Baffle 205B-ABZ Black Baffle	1 Not ENERGY STAR® Qualified or T24 certified
 204C-WH Cone in Clear Alzak® 204G-WH Cone in Gold Alzak® 204B-WH Cone in Black Alzak® 204PT-SC Cone in Pewter Alzak® 204W-WH Cone in Gloss White 204HZ-WH Cone in Haze 204WHZ-WH Cone in Wheat Haze 204WHZ-ABZ Cone in Wheat Haze	

Trim Size: 6 1/4" O.D.

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

Alzak is a registered trademark of Alcoa Corp.

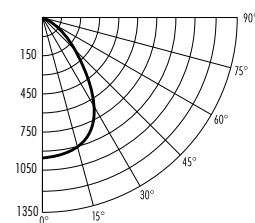
Note: In Canada when insulation is present, Type IC fixtures must be used.

PHOTOMETRIC REPORT

Test Report #: PT10141703R
 Catalog No: IC1420LEDG4-35K
 with 205W-WH Trim
 and standard wide flood optic

Luminaire Spacing Criterion: 1.12

Luminaire LPW: 71



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0°
0	933
5	929
15	889
25	773
35	518
45	232
55	128
65	72
75	43
85	10
90	0

Multiplier: 27K - 0.90
 3K - 0.97
 41K - 1.04

AVERAGE INITIAL FOOTCANDLES

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

Ceiling 80% Wall 50% Floor 20%

Spacing	RCR1	RCR3	RCR5
4.0'	97	79	67
5.0'	62	51	43
6.0'	43	35	30
7.0'	35	28	24
8.0'	28	23	19
9.0'	21	17	14
10.0'	16	13	11

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixture
0-30°	691	N/A	48.0
0-40°	1010	N/A	70.2
0-60°	1311	N/A	91.1
0-90°	1439	N/A	100.0

INITIAL FOOTCANDLES (One Unit, 20.3W, 72.8° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
4	58.3	5.9'
6	25.9	8.8'
8	14.6	11.8'
10	9.3	14.7'

LUMINANCE (Average cd/m²)

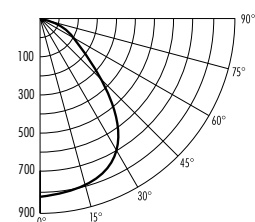
Degrees	Average Luminance
45	31114
55	21096
65	16101
75	15622
85	10749

PHOTOMETRIC REPORT

Test Report #: 25984R
 Catalog No: IC1420LEDG4-35K
 with 204C-WH Trim
 and standard wide flood optic

Luminaire Spacing Criterion: 1.24

Luminaire LPW: 76



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0°
0	833
5	828
15	798
25	750
35	613
45	332
55	171
65	82
75	14
85	0
90	0

Multiplier: 27K - 0.90
 3K - 0.97
 41K - 1.04

AVERAGE INITIAL FOOTCANDLES

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

Ceiling 80% Wall 50% Floor 20%

Spacing	RCR1	RCR3	RCR5
4.0'	104	85	70
5.0'	67	54	45
6.0'	46	38	31
7.0'	37	31	25
8.0'	30	24	20
9.0'	23	18	15
10.0'	17	14	11

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixture
0-30°	649	N/A	42.1
0-40°	1025	N/A	66.4
0-60°	1440	N/A	93.3
0-90°	1543	N/A	100.0

INITIAL FOOTCANDLES (One Unit, 20.3W, 83.6° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
4	52.1	7.2'
6	23.1	10.7'
8	13.0	14.3'
10	8.3	17.9'

LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45	45713
55	29080
65	18947
75	5354
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.



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