

JUNO®

Project: _____

Fixture Type: _____

Location: _____

Contact/Phone: _____

6" IC 1400 LUMEN LED DOWNLIGHT NEW CONSTRUCTION

IC1422LEDG4 RECESSED HOUSING



HYPERBOLIC 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.

Hyperbolic Optical System Unique hyperbolic reflector shape optimized for small, directional LED source provides unique aperture appearance with reduced brightness • NMCT™ nano mixing chamber (provided with trim) with high reflectance white finish coupled with a high transmission diffusing lens conceals the LED and integrates with the hyperbolic trim to create a low glare, efficient system.

Aesthetic Trim Selections Hyperbolic reflector available in clear Alzak®, haze, wheat haze, black Alzak® and white • Shadow free, knife edge design blends seamlessly into ceiling • Installs with torsion springs.

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 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.

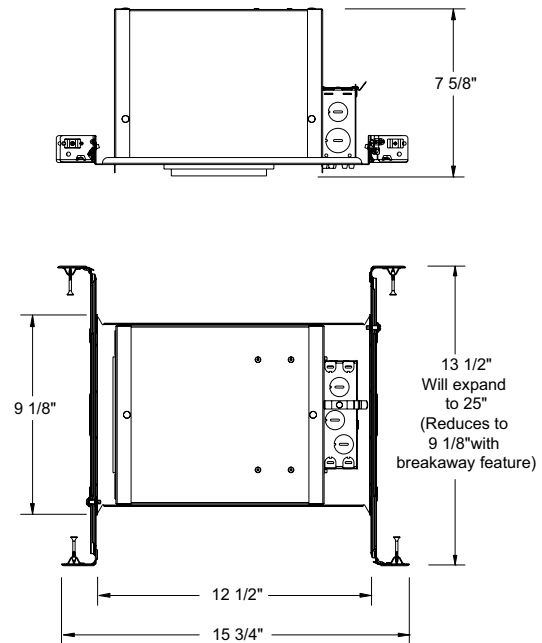
Mounting Frame 22-gauge die-formed galvanized steel mounting frame

- 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



6 7/8" 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

6" IC 1400 LUMEN LED DOWNLIGHT NEW CONSTRUCTION

IC1422LEDG4 RECESSED HOUSING HYPERBOLIC TRIMS

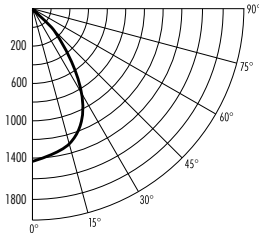
ORDERING INFORMATION: Housing, trim and accessories each ordered separately.

Example: IC1422LEDG4-3K-1			Example: 27HYP3-HZ-WH		
Housing	Color Temperature	Input Voltage	Trim/Description		
IC1422LEDG4	27K 2700K 3K 3000K 35K 3500K 41K 4100K	1 Dedicated 120V Only (Forward Phase + ELV dimmable) U Universal Voltage, 120-277V (0-10V dimmable)		27HYP3-C-WH 27HYP3-B-WH¹ 27HYP3-W-WH 27HYP3-HZ-WH 27HYP3-WHZ-WH¹ 27HYP3-WHZ-ABZ¹	Clear Alzak® Black Alzak® White Haze Wheat Haze Wheat Haze
				¹ Not ENERGY STAR® Qualified or T24 certified	
Trim Size: 7 ⁵ / ₈ " O.D. Trim Finish: ABZ - Classic Aged Bronze, 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 #: PT10141509R
Catalog No: IC1422LEDG4-35K
with 27HYP3-C-WH Trim
and standard nano mixing
chamber

Luminaire Spacing Criterion: 1.02
Luminaire LPW: 75



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0°
0	1419
5	1408
15	1295
25	1082
35	630
45	186
55	1
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 80% Wall 50% Floor 20%

Spacing	RCR1	RCR3	RCR5
4.0'	106	91	78
5.0'	68	58	50
6.0'	47	40	35
7.0'	38	33	28
8.0'	30	26	22
9.0'	23	20	17
10.0'	17	15	13

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixture
0-30°	989	N/A	64.6
0-40°	1373	N/A	89.7
0-60°	1530	N/A	100.0
0-90°	1530	N/A	100.0

INITIAL FOOTCANDLES (One Unit, 20.3W, 67° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
4	88.7	5.3'
6	39.4	7.9'
8	22.2	10.6'
10	14.2	13.2'

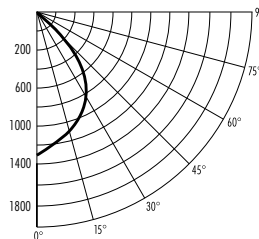
LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45	15654
55	108
65	0
75	0
85	0

PHOTOMETRIC REPORT

Test Report #: PT10141508R
Catalog No: IC1422LEDG4-35K
with 27HYP3-HZ-WH Trim
and standard nano mixing
chamber

Luminaire Spacing Criterion: 1.00
Luminaire LPW: 71



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0°
0	1339
5	1316
15	1168
25	972
35	623
45	184
55	14
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 80% Wall 50% Floor 20%

Spacing	RCR1	RCR3	RCR5
4.0'	99	85	74
5.0'	63	55	47
6.0'	44	38	33
7.0'	36	31	26
8.0'	28	24	21
9.0'	22	19	16
10.0'	16	14	12

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixture
0-30°	896	N/A	62.4
0-40°	1273	N/A	88.7
0-60°	1436	N/A	100.0
0-90°	1436	N/A	100.0

INITIAL FOOTCANDLES (One Unit, 20.3W, 68° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
4	83.7	5.4'
6	37.2	8.1'
8	20.9	10.8'
10	13.4	13.5'

LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45	15453
55	1401
65	0
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.

