



Project: _____

Fixture Type: _____

Location: _____

Contact/Phone: _____

4" IC 900 LUMEN LED DOWNLIGHT REMODEL

IC91 RLEDG4 RECESSED HOUSING
SQUARE TRIMS



PRODUCT DESCRIPTION

Dedicated LED, Air-Loc® remodel housing with integral light engine

- Shallow housing allows for fit in 2 x 6 construction
- IC remodel housing for remodel application where back side of ceiling is not accessible
- Installs through an opening in the ceiling from below
- Secured in place by factory installed remodel springs
- Can be completely covered with insulation
- 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, RoHS compliant

PRODUCT SPECIFICATIONS

LED Light Engine LED array attached to high purity aluminum, thermally conductive housing provides superior heat transfer to ensure long life of the LED

- Replaceable light engine mounts directly to 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.

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.

Aesthetic Trim Selections Die cast aluminum square downlight, pinhole and lensed trim options

- Downlight and pinhole trims feature black insert to minimize glare at the aperture.

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](#)
- Mounted on the j-box for easy access and cool operation.

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
- 12SQ trim listed for wet location (covered ceiling)
- 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

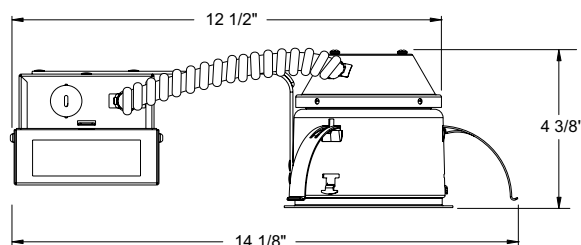
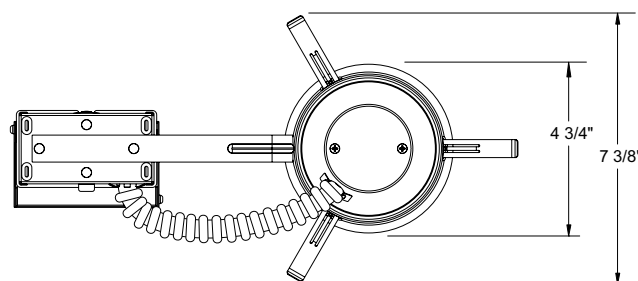
- Aluminum housing sealed for Air-Loc® compliance
- Remodel springs accommodate up to 1 1/2" ceiling thickness.

Junction Box Pre-wired junction box provided with (5) 1/2" knockouts, (4) knockouts for 12/2 or 14/2 NM cable and ground wire

- Knockouts equipped with pryout slots
- Quick connect electrical connectors supplied as standard for fast, secure installation.



DIMENSIONS



4 3/8" CEILING CUTOUT

ELECTRICAL DATA

Dedicated 120V Only Driver Option

120V	
Input Power	14.9W (+/-5%)
Input Current	0.13A
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	15.6W (+/-5%)	15.6W (+/-5%)
Input Current	0.14A	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

* Nominal input wattage @ 120-volt operation with dedicated 120-volt driver under stable operating conditions.

4" IC 900 LUMEN LED DOWNLIGHT REMODEL














IC91RLEDG4 RECESSED HOUSING SQUARE TRIMS

ORDERING INFORMATION: Housing and trim each ordered separately.

Example: **IC91RLEDG4-3K-1**

Housing	Color Temperature	Input Voltage
IC91RLEDG4	27K 2700K 3K 3000K 35K 3500K 41K 4100K	1 Dedicated 120V Only (Forward Phase + ELV dimmable) U Universal Voltage, 120-277V (0-10V dimmable)

Example: **17SQ-HZ-WH**

Trim/Description	
	17SQ-HZ-WH ²
	17SQ-W-WH ¹
	17SQ-B-WH ²
	17SQ-WH-WH ²
	13SQ-WH
	12SQ-W-WH ¹
  	Square Downlight
	Square Pinhole
  	Square Frosted Lens with Clear Center

Trim Size: 5" O.D.
Trim Finish: BL - Black, WH - White.
Alzak is a registered trademark of Alcoa Corp.
Note: In Canada when insulation is present,
Type IC fixtures must be used.

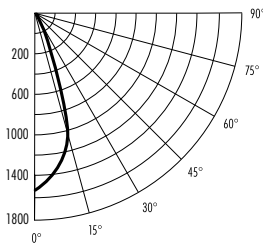
Trim Size: 5" O.D.
Trim Finish: BL - Black, WH - White.
Alzak is a registered trademark of Alcoa Corp.
Note: In Canada when insulation is present,
Type IC fixtures must be used.

¹ Universal voltage: ENERGY STAR® and
T24 at 3K, 35K and 41K only

² Not ENERGY STAR® Qualified or T24
certified

PHOTOMETRIC REPORT

Test Report #: PT03141204R
Catalog No: IC91LEDG4-35K-1
with 17SQ-HZ-WH Trim
Luminaire Spacing Criterion: 0.62
Luminaire LPW: 48



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0°
0	1543
5	1486
15	1015
25	355
35	85
45	31
55	13
65	3
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'	50	44	40
5.0'	32	28	25
6.0'	22	20	18
7.0'	18	16	14
8.0'	14	13	11
9.0'	11	10	9
10.0'	8	7	6

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixture
0 - 30°	610	N/A	85.2
0 - 40°	675	N/A	94.2
0 - 60°	712	N/A	99.5
0 - 90°	716	N/A	100.0

INITIAL FOOTCANDLES (One Unit, 15W, 37° Beam)

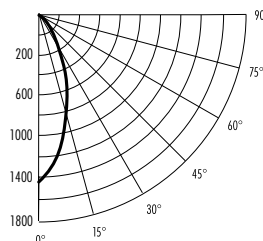
Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
4	96.4	2.7'
6	42.9	4.0'
8	24.1	5.4'
10	15.4	6.7'

LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45	10600
55	5395
65	1708
75	266
85	395

PHOTOMETRIC REPORT

Test Report #: PT03141206R
Catalog No: IC91LEDG4-35K-1
with 12SQ-W-WH Trim
Luminaire Spacing Criterion: 0.58
Luminaire LPW: 50



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0°
0	1471
5	1403
15	870
25	331
35	131
45	66
55	37
65	22
75	12
85	5
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'	52	45	39
5.0'	33	29	25
6.0'	23	20	17
7.0'	19	16	14
8.0'	15	13	11
9.0'	11	10	9
10.0'	8	7	6

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixture
0 - 30°	539	N/A	71.3
0 - 40°	627	N/A	83.0
0 - 60°	715	N/A	94.6
0 - 90°	755	N/A	100.0

INITIAL FOOTCANDLES (One Unit, 15W, 34.1° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
4	92.0	2.5'
6	40.9	3.7'
8	23.0	4.9'
10	14.7	6.1'

LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45	22708
55	15825
65	12610
75	11425
85	14597

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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