JUNO°

Project:

Fixture Type:

Location:

Contact/Phone:

PRODUCT DESCRIPTION

Dedicated LED, Air-Loc® sealed new construction housing with integral light engine • Double wall, shallow housing construction allows for fit in 2 x 6 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, RoHS compliant
- Comparable light output to 75W 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 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 that can produce over 900 lumens with select trims (see page 2 for details) using less than 15W*

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 <u>JUNOICLED-DIM</u> • 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 • 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 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 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.

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

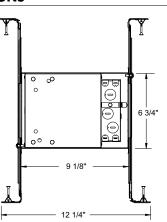


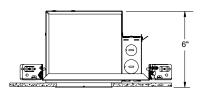
4" IC 900 LUMEN LED DOWNLIGHT NEW CONSTRUCTION

IC91LEDG4 RECESSED HOUSING



DIMENSIONS





4 1/2" CEILING CUTOUT

ELECTRICAL DATA

	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

	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,	FCC Title 47 CFR, Part 15,
	Class A (non-consumer)	Class A (non-consumer)
Minimum starting temp	-40°C	-40°C

4" IC 900 LUMEN LED DOWNLIGHT **NEW CONSTRUCTION**

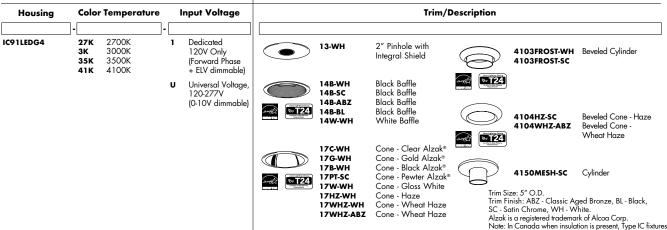
IC91LEDG4 RECESSED HOUSING

OPEN TRIMS

ORDERING INFORMATION: Housing and trim each ordered separately.

Example: IC91LEDG4-3K-1

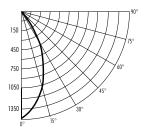
Example: 14W-WH



PHOTOMETRIC REPORT

Test Report #: PT02141303R Catalog No: IC91LEDG4-35K-1 with 14W-WH Trim

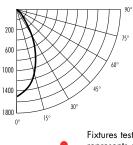
Luminaire Spacing Criterion: 0.72 Luminaire LPW: 62



PHOTOMETRIC REPORT

Test Report #: LTL26327R Catalog No: IC91LEDG4-35K-1 with 17C-WH Trim

Luminaire Spacing Criterion: 0.70 Luminaire LPW: 65



JUNO LIGHTING GROUP

AcuityBrand

DISTRIBUTION (Candelas) Degrees 0° Vertical

15

25

35

45

55

65

75

85

90

Multiplier: 27K - 0.89

(Candelas)

Degrees

Vertical

0

5

15

25

35

45

55

65

75

85

90

Multiplier: 27K - 0.89

3K - 0.94

41K - 1.03

3K - 0.94 41K - 1.03

CANDLEPOWER

DISTRIBUTION

CANDLEPOWER

RCR1 RCR3 Spacing 4.0 57 65 42 36 29 25 6.0 7.0′ 23 20 8.0 18 16 90 14 10.0 10

ZONAL LUMEN SUMMARY

AVERAGE INITIAL FOOTCANDLES

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

RCR5

50

32

22

18

14

8

Ceiling 80% Wall 50% Floor 20%

Zone	Lumens	%Lamp	%Fixture
0 - 30°	717	N/A	76.5
0 - 40°	852	N/A	91.0
0 - 60°	917	N/A	98.0
0-90°	936	N/A	100.0

AVERAGE INITIAL	FO	OTCA	NDLES
AA bit L. LL to JC A		101 10	N

Multiple Units (Square Array, 60'x60' room)		
Ceiling 80% Wall 50% Floor 20%		
RCR1	RCR3	RCR5
68	59	52
44	38	33
30	26	23
25	21	19
19	17	15
15	13	11
11	10	8
	% Wall 50 RCR1 68 44 30 25 19	Wall 50% Floor 2 RCR1 RCR3 68 59 44 38 30 26 25 21 19 17 15 13

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixture
0 - 30°	725	N/A	73.9
0 - 40°	887	N/A	90.5
0 - 60°	977	N/A	99.6
0 - 90°	981	N/A	100.0

INITIAL FOOTCANDLES

must be used

(One Unit, 15W, 44.2° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
4	93.2	3.2′
6	41.4	4.9′
8	23.3	6.5′
10	14.9	8.1′

LUMINANCE (Average cd/m²)

	Average	
Degrees	Luminance	
45	12517	
55	6382	
65	4034	
75	4069	
85	2014	

INITIAL FOOTCANDLES

(One Unit, 15W , 43.9° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
4	94.3	3.2′
6	41.9	4.8′
8	23.6	6.4′
10	15.1	8.1′

LUMINANCE (Average cd/m²)

	Average	
Degrees	Luminance	
45	18733	
55	7144	
65	1077	
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.



1491 0 1449 5

1118

600

206

54

22

10

6

0

0°

1508

1482

1104

620

254

82

26

3

٥

0

0

JUNO°

Project:

Fixture Type:

Location:

Contact/Phone:

PRODUCT DESCRIPTION

Dedicated LED, Air-Loc[®] sealed new construction housing with integral light engine • Double wall, shallow housing construction allows for fit in 2 x 6 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 wavelengthe
- No harmful ultraviolet or infrared wavelengths
 No lead or mercury, RoHS compliant
- Comparable light output to 75W 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 STAR® requirements for superior fixture to fixture color uniformity • 2700K, 3000K, 3500K, or 4100K color temperatures available • 90 CRI minimum.

Hyperbolic Optical System Patent pending unique hyperbolic reflector shape optimized for small, directional LED source provides unique aperture appearance with reduced brightness • NMC[™] 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 producing 900 lumens using less than 15W*.

Aesthetic Trim Selections Patent pending hyperbolic reflector available in clear Alzak®, haze, wheat haze, black Alzak® and white • Shadow free, knife edge design blends seamlessly into ceiling • Installs with push-in 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 <u>JUNOICLED-DIM</u> • 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 • 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 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 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.

* Nominal input wattage @ 120-volt operation with dedicated 120-volt driver under stable operating conditions. REV-3/15

4" IC 900 LUMEN LED DOWNLIGHT NEW CONSTRUCTION

IC91LEDG4 RECESSED HOUSING

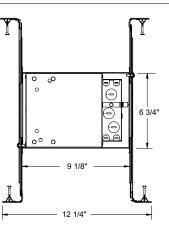
HYPERBOLIC TRIMS

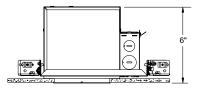




DIMENSIONS

₩ **T24**





4 1/2" 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

	120V	277V
Input Power	15.6W (+/-5%)	15.6W (+/-5%)
Input Current	0.14A	A80.0
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

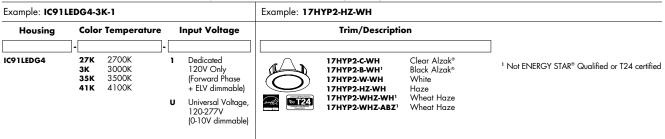


4" IC 900 LUMEN LED DOWNLIGHT **NEW CONSTRUCTION**

IC91LEDG4 RECESSED HOUSING

HYPERBOLIC TRIMS

ORDERING INFORMATION: Housing and trim each ordered separately.

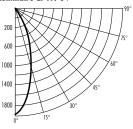


Trim Size: 5" O.D. Trim Finish: ABZ - Classic Aged Bronze, WH - White. Alzak is a registered trademark of Alcoa Corp. Note: In Canada when insulation is present, Type IC fixtures must be used.

PHOTOMETRIC REPORT

Test Report #: PT06140404R Catalog No: IC91LEDG4-35K-1 with 17HYP2-HZ-WH Trim and standard nano mixing chamber

Luminaire Spacing Criterion: 0.62 Luminaire LPW: 54



DISTRIBUTION Multiple Units (Square Array, 60'x60' room) (Candelas) Ceiling 80% Wall 50% Floor 20% Degrees Vertical 0°

1873

1739

1165

624

62

4

0

0

0

٥

0

CANDLEPOWER

Λ

5

15

25

35

45

55

65

75

85

90

Ō

5

15

25

35

45

55

65

75

85

90

Multiplier: 27K - 0.89 3K - 0.94

41K - 1.03

Multiplier: 27K - 0.89

3K - 0.94 41K - 1 03

CANDLEPOWER

Spacing	RCR1	RCR3	RCR5
4.0′	57	51	46
5.0´	36	32	29
6.0´	25	23	20
7.0′	20	18	17
8.0´	16	14	13
9.0′	12	11	10
10.0′	9	8	7

AVERAGE INITIAL FOOTCANDLES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixture
0 - 30°	751	N/A	92.8
0 - 40°	805	N/A	99.4
0 - 60°	810	N/A	100.0
0 - 90°	810	N/A	100.0

INITIAL FOOTCANDLES (One Unit, 15W, 38.3° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
4	117.1	2.8′
6	52.1	4.2′
8	29.3	5.6′
10	18.7	6.9′

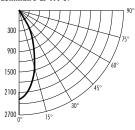
LUMINANCE (Average cd/m²)

	Average		
Degrees	Luminance		
45	974		
55	46		
65	0		
75	0		
85	0		
05	0		

PHOTOMETRIC REPORT

Test Report #: PT06140402R Catalog No: IC91LEDG4-35K-1 with 17HYP2-C-WH Trim and standard nano mixing chamber

Luminaire Spacing Criterion: 0.56 Luminaire LPW: 57



Multiple Units (Square Array, 60'x60' room)			
Ceiling 80% Wall 50% Floor 20%			
Spacing	RCR1	RCR3	RCR5
1.0'	/0	E A	40

4.01	60	54	49
5.0′	38	34	31
6.0´	27	24	22
7.0′	21	19	18
8.0´	17	15	14
9.0´	13	12	11
10.01	10	9	8

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixture
$0 - 30^{\circ}$	811	N/A	95.0
0 - 40°	852	N/A	99.9
0-60°	853	N/A	100.0
0 - 90°	853	N/A	100.0

INITIAL FOOTCANDLES (One Unit, 15W, 34.2° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter	
4	143.4	2.5′	
6	63.7	3.7′	
8	35.8	4.9′	
10	22.9	6.2'	

LUMINANCE (Average cd/m²)

	Average		
Degrees	Luminance		
45	300		
55	0		
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.



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

AVERAGE INITIAL FOOTCANDLES

DISTRIBUTION (Candelas) Degrees Vertical 0°

2294

2054

1294

618

37

1

0

0

٥

0

0

JUNO°

Project:

Fixture Type:

Location:

Contact/Phone:

PRODUCT DESCRIPTION

Dedicated LED, Air-Loc® sealed new construction housing with integral light engine • Double wall, shallow housing construction allows for fit in 2 x 6 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, RoHS compliant
- Comparable light output to 75W 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 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.

Aesthetic Trim Selections Compatible with wide selection of existing Juno trims
Shadow free, knife edge design blends seamlessly into ceiling.
Trims are wet location approved for covered ceiling applications.

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 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, wet locations (covered ceilings) • 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 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 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.

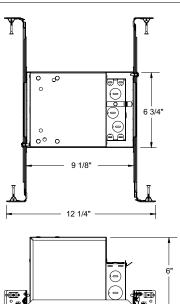
Mounting Frame 22-gauge die-formed galvanized steel mounting frame
Rough-in section (junction box, mounting frame, housing and bar hangers) fully assembled for ease of installation.

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.

IC91LEDG4 RECESSED HOUSING



DIMENSIONS



4 1/2" 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

	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,	FCC Title 47 CFR, Part 15,
	Class A (commercial)	Class A (commercial)
Minimum starting temp	-40°C	-40°C

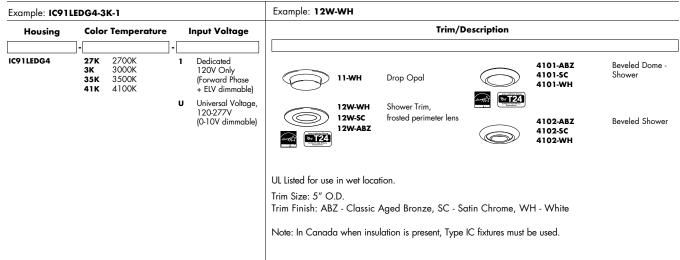


4" IC 900 LUMEN LED DOWNLIGHT NEW CONSTRUCTION

IC91LEDG4 RECESSED HOUSING

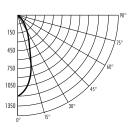
LENSED TRIMS

ORDERING INFORMATION: Housing and trim each ordered separately.



PHOTOMETRIC REPORT

Test Report #: PT08111601R Catalog No: IC91LEDG4:35K with 12W-WH Trim Luminaire Spacing Criterion: 0.58 Luminaire LPW: 48



Distribution (candelas) Degrees Vertical 0° 0 1195 5 1100 15 703 25 352

CANDLEPOWER



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

Spacing	RCR1	RCR3	RCR5			
4.0´	49	42	36			
5.0´	31	27	23			
6.0´	22	19	16			
7.0′	18	15	13			
8.0´	14	12	10			
9.0´	11	9	8			
10.0´	8	7	6			

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixture
0 - 30°	461	N/A	64.3
0-40°	565	N/A	78.8
0-60°	669	N/A	93.4
0-90°	717	N/A	100.0

INITIAL FOOTCANDLES (One Unit, 15W, 35.5° Beam)

 Distance to Illuminated Plane (Feet)
 Footcandles Beam Center
 Beam Diameter

 4
 74.7
 2.6'

 6
 33.2
 3.8'

 8
 18.7
 5.1'

 10
 12.0
 6.4'

LUMINANCE (Average cd/m²)

	Average	
Degrees	Luminance	
45	18089	
55	12473	
65	10772	
75	9214	
85	4975	

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.



JUNO

Project:

Fixture Type:

Location:

Contact/Phone:

PRODUCT DESCRIPTION

Dedicated LED, Air-Loc® sealed new construction housing with integral light engine • Double wall, shallow housing construction allows for fit in 2 x 6 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, RoHS compliant
- Comparable light output to 75W 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 STAR® requirements for superior fixture to fixture color uniformity • 2700K, 3000K, 3500K, or 4100K color temperatures available • 90 CRI minimum.

Optical System Angle-cut aluminum reflector and specular clear kicker reflector directs light toward wall for uniform illumination on vertical surfaces while concealing LED optic assembly and minimizing glare • LEDs are concealed by high transmission diffusing lens.

Aesthetic Trim Selections Recessed lensed wall wash trim • Shadow free, knife edge design blends seamlessly into ceiling • Reflector finishes include clear, haze, wheat haze and white paint.

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 <u>JUNOICLED-DIM</u> • 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 • 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 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 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.

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



4" IC 900 LUMEN LED DOWNLIGHT NEW CONSTRUCTION

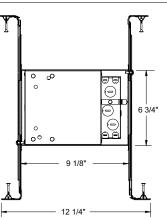
IC91LEDG4 RECESSED HOUSING

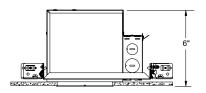




DIMENSIONS

™T24





4 1/2" 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

	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,	FCC Title 47 CFR, Part 15,
	Class A (non-consumer)	Class A (non-consumer)
Minimum starting temp	-40°C	-40°C

4" IC 900 LUMEN LED DOWNLIGHT NEW CONSTRUCTION

IC91LEDG4 RECESSED HOUSING

WALL WASH TRIM

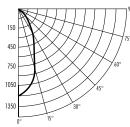
ORDERING INFORMATION: Housing and trim each ordered separately.

Example: IC91LEDG4-3K-1					Example: 39C-WH				
Housing	Housing Color Temperature Input Voltage					Trim/Description			
IC91LEDG4	27K 3K 35K 41K	2700K 3000K 3500K 4100K	1 1	Dedicated 120V Only (Forward Phase + ELV dimmable) Universal Voltage, 120-277V (0-10V dimmable)		39C-WH Lensed Wall Wash - Clear Alzak® 39W-WH Lensed Wall Wash - Gloss White 39HZ-WH Lensed Wall Wash - Haze 39WHZ-WH Lensed Wall Wash - Wheat Haze Trim Size: 5" O.D. Trim Finish: WH - White. Alzak is a registered trademark of Alcoa Corp. Note: In Canada when insulation is present, Type IC fixtures must be used. Note: In Canada when insulation is present, Type IC fixtures			

PHOTOMETRIC REPORT

Te	st I	Rep	ort	#:	PT	1014	230	5R
Ca	tal	og I	No:	IC	911	LEDG4	1-35K	-1
		Ů				39C-\		
								0 70

Luminaire Spacing Criterion: 0.70 Luminaire LPW: 57



CANDLEPOWER DISTRIBUTION (Candelas)				
Degrees				
Vertical	0°			
0	1200			
5	1179			
15	886			
25	468			
35	164			
45	66			
55	38			
65	21			
75	8			
85	0			
90	0			
Multiplier: 27K - 0.89 3K - 0.94 41K - 1.03				

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixture
0-30°	586	N/A	68.30
0 - 40°	736	N/A	85.70
0-60°	843	N/A	98.20
0-90°	858	N/A	100.0

LUMINANCE (Average cd/m²)

	Average	
Degrees	Luminance	
45	17565	
55	12328	
65	9525	
75	6139	
85	0	

FOOTCANDLES ON WALL FROM MULTIPLE FIXTURES

Fixtur	e Distance to Wall		2′		3′
Fixtur	e Centers (spacing)	▲ 2′ ▲	∆ 3′ ∆	∆ 3′ ∆	4 ′ Å
C]'	5 5 5	4 4 4	3 3 3	2 2 2
Ľ	2′	11 11 11	9 8 9	5 5 5	4 4 4
CEILIN	3'	15 15 15	12 10 12	7 7 7	5 5 5
Z	4'	19 20 19	14 13 14	8 8 8	6 6 6
FRO	5′	20 20 20	14 14 14	9 9 9	8 7 8
Ш Ш	6'	19 19 19	14 14 14	11 11 11	9 8 9
Ŋ	7'	17 17 17	12 13 12	11 11 11	9 9 9
Ā	8'	15 15 15	11 11 11	11 11 11	8 9 8
ISI	9′	13 13 13	9 9 9	10 10 10	7 7 7

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.



JUNO

Project:

Fixture Type:

Location:

Contact/Phone:

PRODUCT DESCRIPTION

Dedicated LED, Air-Loc® sealed new construction housing with integral light engine • Double wall, shallow housing construction allows for fit in 2 x 6 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, RoHS compliant

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 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 <u>JUNOICLED-DIM</u> • 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 • 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 • 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 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 900 LUMEN LED DOWNLIGHT NEW CONSTRUCTION

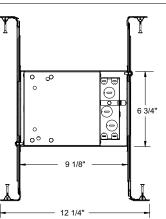
IC91LEDG4 RECESSED HOUSING

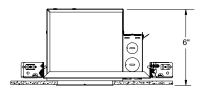




SQUARE TRIMS

DIMENSIONS





4 1/2" 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,	FCC Title 47 CFR, Part 15,
	Class A (non-consumer)	Class A (non-consumer)
Minimum starting temp	-40°C	-40°C

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

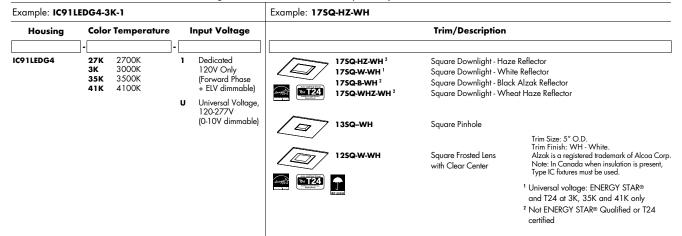


4" IC 900 LUMEN LED DOWNLIGHT **NEW CONSTRUCTION**

IC91LEDG4 RECESSED HOUSING

SQUARE TRIMS

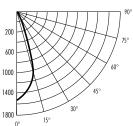
ORDERING INFORMATION: Housing and trim each ordered separately.



PHOTOMETRIC REPORT

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

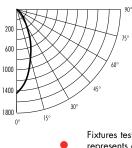
Luminaire LPW: 48



PHOTOMETRIC REPORT

Test Report #: PT03141206R Catalog No: IC91LEDG4-35K-1

Luminaire Spacing Criterion: 0.58 Luminaire LPW: 50



JUNO LIGHTING GROUP

AcuityBrand

DISTRIBUTION (Candelas) Degrees Vertical 0

0

5

15

CANDLEPOWER

	Ceiling 80	Ceiling 80% Wall 50% Floor		
_	Spacing	RCR 1	RCR3	
	4.0'	50	44	
_	5.01	32	28	
	6.0	22	20	
	7.0/	10	1/	

14 18 16 8.0′ 14 13 9.01 9 10.0 8

AVERAGE INITIAL FOOTCANDLES

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

20%

RCR5

40

25

18

ZONAL LUMEN SUMMARY

Lumens	%Lamp	%Fixture
610	N/A	85.2
675	N/A	94.2
712	N/A	99.5
716	N/A	100.0
	610 675 712	610 N/A 675 N/A 712 N/A

AVERAGE INITIAL FOOTCANDLES

Multiple Units (Square Array, 60'x60' room)				
Ceiling 80	Ceiling 80% Wall 50% Floor 20%			
Spacing	RCR1	RCR3	RCR5	
4.0′	52	45	39	
5.01	33	29	25	
6.01	23	20	17	
7.0′	19	16	14	
8.0′	15	13	11	
9.0´	11	10	9	
10.0 ^r	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, 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)

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

INITIAL FOOTCANDLES (One Unit 15W 34.1° Beam)

(010 0111, 1011, 04.1			
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)

	Average	
Degrees	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.



25 355 35 85 31 45 55 13 3 65 75 0

1543

1486

1015

0°

1471

1403

870

331

131

66

37

22

12

5

0

85 0 90 0 Multiplier: 27K - 0.89 3K - 0.94 41K - 1.03

(Candelas)

Degrees

Vertical

ō

5

15

25

35

45

55

65 75

85

90

Multiplier: 27K - 0.89

3K - 0.94

41K - 1.03

CANDLEPOWER DISTRIBUTION

with 12SQ-W-WH Trim