JUNO

Project:

Fixture Type:

Location:

Contact/Phone:

PRODUCT DESCRIPTION

Patent pending dedicated LED, Air-Loc[®] sealed new construction housing with integral internally adjustable light engine • Double wall, shallow housing construction • Can be completely covered with insulation and installs in 2 x 6 construction • Fully sealed housing stops infiltration and exfiltration of air, reducing heating and cooling costs without the use of additional gaskets • LED housing is designed to provide 50,000 hours of life • 5 year limited warranty on LED components 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 cast aluminum sliding heatsink integrated directly with 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 4000K color temperatures available • 90 CRI minimum.

Optics Three field interchangeable, TIR optics available in 18°, 30° and 40° beam angles • Module can accommodate one 2-inch diameter beam control lens or filter.

Aesthetic Trim Selections Aluminum downlight reflector in clear, black, pewter, white, haze and wheat haze • Shadow free, knife edge design blends seamlessly into ceiling.

LED Driver Choice of dedicated 120 volt (120) driver or universal voltage (MVOLT) 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® Certified • Certified to the high efficacy requirements of California T24 JA8-2016• UL listed for U.S. and Canada for 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.

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) $\frac{1}{2}$ " and (1) $\frac{3}{4}$ " 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 700 LUMEN INTERNALLY ADJUSTABLE LED DOWNLIGHT **NEW CONSTRUCTION**

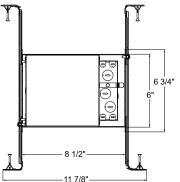
IC4AL (07LM) RECESSED HOUSING

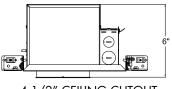
DOWNLIGHT TRIMS



G1.7.71

DIMENSIONS





4 1/2" CEILING CUTOUT

ELECTRICAL DATA

Dedicated 120V Only Driver Option (120)

	120V	
Input Power	10.5W (+/-5%)	
Input Current	0.10A	
Frequency	50/60Hz	
EMI/RFI	FCC Title 47 CFR, Part 15,	
	Class B (Residential)	
Minimum starting temp	-25°C (-13°F)	

Universal Voltage Driver (MVOLT 7T)

j	120V	277V
Input Power	10.0W (+/-5%)	10.0W (+/-5%)
Input Current	0.09A	0.04A
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	-20°C (-4°F)	-20°C (-4°F)

Lutron Hi-Lume[®] LED Driver (MVOLT ECOS3)

	120V	277V
Input Power	11.1W (+/-5%)	11.3W (+/-5%)
Input Current	0.10A	0.05Å
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	0°C (32°F)	0°C (32°F)



4" IC 700 LUMEN INTERNALLY ADJUSTABLE LED DOWNLIGHT **NEW CONSTRUCTION**

IC4AL (07M) RECESSED HOUSING

DOWNLIGHT TRIMS

ORDERING INFORMATION Housing and trim can be ordered together or separate, but will always ship separately.

Example: IC4AL 07LM 27K 90CRI FL 120 FRPC

Series		Lumen	IS	Color	Temperature	CRI		Distr	ibution	Voltage		Driver	
IC4AL		07LM	700 Nominal Lumens	27K	2700K	90CRI	90+ CRI	FL	Flood	120	120V	ECOS3	
	New Const. IC Downlight			30K	3000K			NFL	Narrow Flood	MVOLT	Multi-Volt		controls & Lutron Ecosystem
				35K	3500K			SP	Spot		(120-277V)	FRPC	Forward/ Reverse Phase Cut
				40K	4000K							ZT	0 - 10V Dimming Driver

Trim/Description



4" Downlight Cone Trim - Black Alzak® Cone, White Trim Ring 4" Downlight Cone Trim - Clear Alzak® Cone, White Trim Ring 4" Downlight Cone Trim - Haze Cone, White Trim Ring 4" Downlight Cone Trim - Pewter Alzak® Cone, Satin Chrome Trim Ring 42L WHZABZ 4" Downlight Cone Trim - Wheat Haze Cone, Classic Aged Bronze Trim Ring

42L WHZWH 4" Downlight Cone Trim - Wheat Haze Cone, White Trim Ring

4" Downlight Cone Trim - Gloss White Cone, White Trim Ring

Trim Size: 5" O.D. Alzak is a registered trademark of Alcoa Corp. Note: In Canada when insulation is present, Type IC fixtures must be used. Notes: 120 must be ordered with FRPC. MVOLT can be ordered with either ZT or ECOS3

Accessories	(ordered	separately)
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Catalog Number	Description
CGF 200 MPINK	Color Glass Filter - 2" Diameter - Medium Pink
CGF 200 WRED	Color Glass Filter - 2" Diameter - Warm Red
CGF 200 DLTBLUE	Color Glass Filter - 2" Diameter - Daylight Blue
CGF 200 MBLU	Color Glass Filter - 2" Diameter - Medium Blue
CGF 200 MAMB	Color Glass Filter - 2" Diameter - Medium Amber
CGF 200 MGRN	Color Glass Filter - 2" Diameter - Medium Green
DGF 200 DRED	Dichroic Glass Filter - 2" Diameter Red
DGF 200 MGRN	Dichroic Glass Filter - 2" Diameter Medium Green
DGF 200 MBLU	Dichroic Glass Filter - 2" Diameter Medium Blue
DGF 200 DYEL	Dichroic Glass Filter - 2" Diameter Yellow (Dichroic)
DGF 200 MAGEN	Dichroic Glass Filter - 2" Diameter Magenta
DGF 200 CYAN	Dichroic Glass Filter - 2″ Diameter Cyan
DCCF 200 HL4250	Dichroic Color Correction Filter - 2" Diameter - Halogen - to - Daylight
DIFF 200	Diffusion Glass Lens - 2" Diameter
UVF 200	UV Filter Lens - 2" Diameter
HCLBL 200	Hexagonal Cell Louver - Black - 2″ Diameter
LSPREAD 200	Linear Spread Glass Lens - 2" Diameter
PRISM 200	Prismatic Glass Lens - 2" Diameter
TIR2 SPT	TIR Optic - Spot
TIR2 NFLD	TIR Optic - Narrow Flood
TIR2 FLD	TIR Optic - Flood

4" IC 700 LUMEN INTERNALLY ADJUSTABLE LED DOWNLIGHT **NEW CONSTRUCTION**

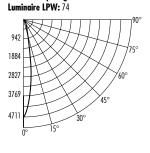
IC4AL (07M) RECESSED HOUSING

DOWNLIGHT TRIMS

PHOTOMETRICS

PHOTOMETRIC REPORT

Test Report#: PT09152801R Catalog No: IC4AL 07LM 35K 90CRI SP 120 FRPC with 42L HZWH, Downlight Cone Haze Finish Trim and Spot Optic Luminaire Spacing Criteria: 0.30



4711 0 3582 5 935 15 25 312 35 78 45 10 55 0 0 65 75 0 85 0 90 0 Multipliers: 35K - 1.00 27K-0.93

0°

Degrees

Vertica

30K - 0.96 40K - 1 03 CANDLEPOWER

DISTRIBUTION

0°

2670

2462

1110

314

85

18

1

0

0

0

0

٥°

1986

1894 1206

489

116

22

0

0

0

0

0

35K - 1.00

40K - 1.03

(Candelas)

Degrees

Vertica

0

5

15

25

35

45 55

65

75

85

90

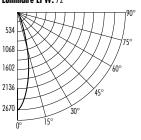
Multipliers: 27K -0.93

30K - 0.96

(Candelas)

PHOTOMETRIC REPORT Test Report#: PT09152803R

Catalog No: IC4AL 07LM 35K 90CRI NFL 120 FRPC with 42L HZWH, Downlight Cone Haze Finish Trim and Narrow Flood Optic Luminaire Spacing Criteria: 0.46 Luminaire LPW: 72



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

Spacing	RCR1	RCR3	RCR5
4.0'	55	50	46
5.0'	35	32	29
6.0'	24	22	20
7.0'	20	18	16
8.0'	16	14	13
9.0'	12	11	10
10.0'	9	8	7

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixture
0-30°	709	N/A	91.3
0-40°	765	N/A	98.5
0-60°	776	N/A	100.0
0-90°	776	N/A	100.0

AVERAGE INITIAL FOOTCANDLES

RCR3

48

30

21

14

10

8

%Lamp %Fixture

RCR5

44

28

19

16

12

10

89.5

977

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

RCR1

34

23

19

15

8

Lumens

675

737

ZONAL LUMEN SUMMARY

Ceiling 80%, Wall 50%, Floor 20%

Spacing

4.0

6.0

7.0

8.0

9.0

10.0

Zone

0-30

0-40°

0-60°

0-90

INITIAL FOOTCANDLES

(One Unit, 10.5W, 16.9° Beam)					
Beam ameter					
1.2					
1.8					
2.4					
3.0					

LUMINANCE (Average cd/m²)

Degrees	Average 0° Luminance
45	2752
55	78
65	0
75	0
85	0

INITIAL FOOTCANDLES

(One Unit, 10.5W, 27.0° Beam)

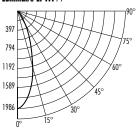
Footcandles Beam Center	Beam Diameter
166.9	1.9
74.2	2.9
41.7	3.8
26.7	4.8
	Beam Center 166.9 74.2 41.7

LUMINANCE (Average cd/m²)

Degrees	Average 0° Luminance
45	4895
55	181
65	0
75	0
85	0

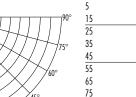
PHOTOMETRIC REPORT

Catalog No: IC4AL 07LM 35K 90CRI FL 120 FRPC with 42L HZWH, Downlight Cone Haze Finish Trim and Flood Optic Luminaire Spacing Criteria: 0.58 Luminaire LPW: 79



Test Report#: PT09152805R

Degrees Vertical 0



85

90



CANDLEPOWER **AVERAGE INITIAL FOOTCANDLES** DISTRIBUTION Multiple Units (Sauare Array, 60'x60'

Spacing	RCR1	RCR3	RCR5
4.0'	58	52	47
5.0'	37	33	30
6.0'	26	23	21
7.0'	21	19	17
8.0'	17	15	13
9.0'	13	11	10
10.0'	9	8	7

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixture
0-30°	727	N/A	87.5
0-40°	810	N/A	97.4
0-60°	831	N/A	100.0
0-90°	831	N/A	100.0

INITIAL FOOTCANDLES Unit 10 5W 35 0° B

One onii, To.3W, 33.0 Dealii			
Footcandles Beam Center	Beam Diameter		
124.1	2.5		
55.2	3.8		
31.0	5.0		
19.9	6.3		
	Footcandles Beam Center 124.1 55.2 31.0		

LUMINANCE (Average cd/m²)

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Degrees	Average 0° Luminance
45	5967
55	26
65	0
75	0
85	0

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

ScuityBrands.

754 N/A 100.0 754 N/A 100.0

N/A

N/A