

Project: _____

Fixture Type: _____

Location: _____

Contact/Phone: _____

4" IC RATED LED NEW CONSTRUCTION JUNO RED SERIES™ ADJUSTABLE

FOR INSTALLATION INTO
FIRE RATED CEILING ASSEMBLIES
IC1AJBPF 440LED



PRODUCT DESCRIPTION

4" IC LED Air-Loc® new construction junction box plaster frame housing with energy efficient LED adjustable trim module for a complete downlight solution

- May be installed in maximum 2 hour fire-rated ceiling assemblies per International Building Code Section 714
- Can be completely covered with insulation
- Dimmable
- Designed to provide 50,000 hours of life
- 5 year limited warranty on LED components.

PRODUCT SPECIFICATIONS

Adjustable Trim Die cast adjustable gimbal trim features shadow free knife edge to blend seamlessly into ceiling

- All-in-one design where LED light engine mounts directly to trim for ease of installation
- Provided with push-in friction springs
- White finish

LED Light Engine Trim Module LED array attached to die cast trim provides superior heat transfer to ensure long life of the LED

- LEDs are binned within a 3-step MacAdam Ellipse exceeding ENERGY STAR® requirements for superior fixture to fixture color uniformity
- 2700K, 3000K, 3500K and 4000K color temperatures with 90 CRI minimum
- Features a plug-in connector for easy installation with IC1JABPF housing.

Optics Three field interchangeable, TIR optics available in 18°, 30° and 40° beam angles

- Light engine trim module is supplied with a 30° optic installed
- Module can accommodate one 2-inch diameter beam control lens or filter
- Gimbal provides up to 35° tilt adjustment.

LED Driver Choice of dedicated 120 volt driver or universal voltage drivers that accommodate 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 drivers are 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
- Assembly ETL listed to UL1598 for US and Canadian through branch wiring, damp location
- ETL listed to UL514A
- Air-Loc.

Testing All reports are based on published industry procedures; field performance may differ from laboratory performance.

Actual performance may differ as a result of end-user environment and application.

All values are design or typical values, measured under laboratory conditions at 25°C.

Specifications subject to change without notice.

HOUSING FEATURES

Housing Designed for use in IC (insulated ceiling) or non-IC construction

Painted steel 3-1/2" deep 4" square housing fully assembled to plaster frame for ease of installation. For use with 5/8" to 1-1/4" ceiling thickness

Wiring Compartment Pre-wired junction box provided with (5) 1/2" and (1) 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 8 # 12 branch circuit conductors
- 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

- Pre-installed Air-Loc gasket

Hardware Ships with trim mounting bracket and trim ring.

INSTALLATION

Must be installed per the International Building Code Section 714 guidelines to maintain up to a 2 hour ceiling fire rating. Precise ceiling cutout required.

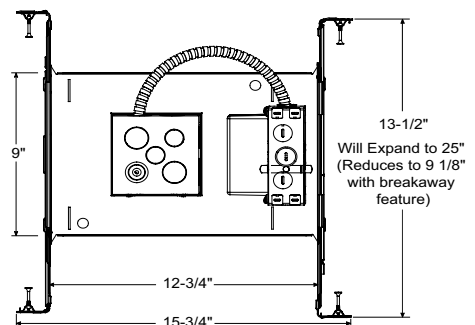
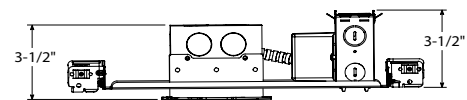
Real Nail 3 Bar Hangers Telescoping Real Nail 3® system permits quick placement of housing anywhere within 24" O.C. joists or suspended ceilings

- Bars scored in two locations for fast, clean breaking, allowing housing installation in tight applications
- Captive bugle-headed ring shank nail for quick one-step installation and easy removal with claw hammer for fixture relocation
- Integral T-bar notch for suspended ceilings
- Locking set screw to lock junction box housing in position
- Design covered under US Patent D552,969.

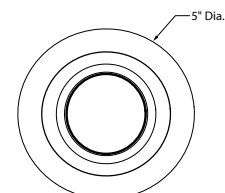
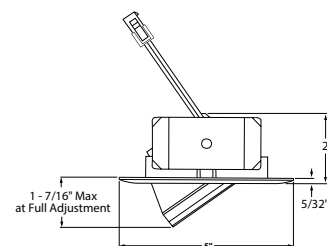
DIMENSIONS



IC1AJBPF



440LED TRIM



Retrofit Mounting Bracket and Trim Ring

4" IC RATED LED NEW CONSTRUCTION JUNO RED SERIES™ ADJUSTABLE

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ELECTRICAL DATA

Dedicated 120V Only Driver Option (120 FRPC)

120V	
Input Power	8.75W (+/-5%)
Input Current - Max	0.08A
Frequency	50/60Hz
EMI/RFI	FCC Title 47 CFR, Part 15, Class B (residential)
Minimum starting temp	-40°C

ELECTRICAL DATA

Universal Voltage

	MVOLT EZ10 and EZ1		MVOLT ZT10 and ZT1	
	120V	277V	120V	277V
Input Power	8.1W (+/-5%)	8.8W (+/-5%)	8.1W (+/-5%)	8.8W (+/-5%)
Input Current - Max	0.07A	0.03A	0.07A	0.03A
Frequency	50/60Hz	50/60Hz	50/60Hz	50/60Hz
EMI/RFI	FCC Title 47 CFR, Part 15, Class B (residential)	FCC Title 47 CFR, Part 15, Class B (residential)	FCC Title 47 CFR, Part 15, Class B (residential)	FCC Title 47 CFR, Part 15, Class B (residential)
Minimum starting temp	-20°C	-20°C	-20°C	-20°C



A+ Capable options indicated
by this color background

ORDERING INFORMATION Housing and trim ordered separately.

HOUSING:

Ordering Example: IC1AJBPF 06LM 120 FRPC

Series	Lumens	Voltage/Driver
IC1AJBPF 4" IC Junction Box in Plaster Frame New Construction for Adjustable Trims	06LM 600 Nominal Lumens	120 FRPC 120 V Forward/Reverse Phase Cut, 5% dim MVOLT ZT10 Multi-Volt (120-277), 0-10V, 10% dim MVOLT ZT1 Multi-Volt (120-277), 0-10V, 1% dim MVOLT EZ10 Multi-Volt (120-277), eldoLED 0-10V, 10% dim MVOLT EZ1 Multi-Volt (120-277), eldoLED 0-10V, 1% dim

TRIM:

Ordering Example: 440LED G4N 06LM 27K 90CRI WH

Series	Generation	Lumens	Color Temperature	CRI	Trim Finish
440LED 4" LED Adjustable Trim	G4N Generation 4	06LM 600 Nominal Lumens	27K 2700K 30K 3000K 35K 3500K 40K 4000K	90CRI 90+ CRI	WH White

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

4" IC RATED LED NEW CONSTRUCTION JUNO RED SERIES™ ADJUSTABLE

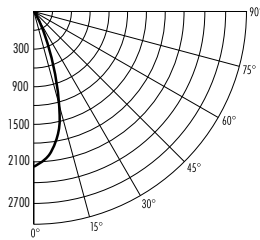
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PHOTOMETRICS

PHOTOMETRIC REPORT

Test Report #: PT10161204
Catalog No: 440LED G4N O6LM
30K 120 BL, 30° Narrow Flood Optic
Luminaire Spacing Criterion: 0.5
Luminaire LPW: 83



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0°
0	2182
5	2085
15	1243
25	208
35	54
45	18
55	7
65	2
75	0
85	0
90	0

Multiplier:
27K - 0.96 35K - 1.03
30K - 1.00 40K - 1.06

AVERAGE INITIAL FOOTCANDLES

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

Spacing	RCR1	RCR3	RCR5
4.0'	49	44	40
5.0'	31	28	26
6.0'	22	20	18
7.0'	18	16	14
8.0'	14	12	11
9.0'	11	10	9
10.0'	8	7	6

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixture
0 - 30°	628	N/A	91.6
0 - 40°	663	N/A	96.7
0 - 60°	684	N/A	99.7
0 - 90°	686	N/A	100.0

INITIAL FOOTCANDLES

(One Unit, 8.2W, 32.2° Beam)

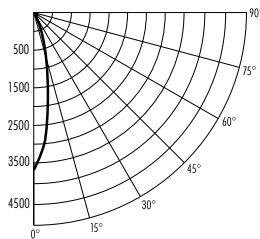
Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
4	136.4	2.3'
6	60.6	3.5'
8	34.1	4.6'
10	21.8	5.8'

LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45	13144
55	5763
65	2073
75	0
85	0

PHOTOMETRIC REPORT

Test Report #: PT10161205
Catalog No: 440LED G4N O6LM
30K 120 BL, 18° Spot Optic
Luminaire Spacing Criterion: 0.3
Luminaire LPW: 82



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0°
0	3710
5	3053
15	873
25	226
35	59
45	22
55	9
65	3
75	0
85	0
90	0

Multiplier:
27K - 0.96 35K - 1.03
30K - 1.00 40K - 1.06

AVERAGE INITIAL FOOTCANDLES

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

Spacing	RCR1	RCR3	RCR5
4.0'	48	43	40
5.0'	31	28	26
6.0'	21	19	18
7.0'	17	16	14
8.0'	14	12	11
9.0'	10	9	9
10.0'	8	7	6

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixture
0 - 30°	608	N/A	89.9
0 - 40°	647	N/A	95.7
0 - 60°	673	N/A	99.5
0 - 90°	676	N/A	100.0

INITIAL FOOTCANDLES

(One Unit, 8.2W, 19.4° Beam)

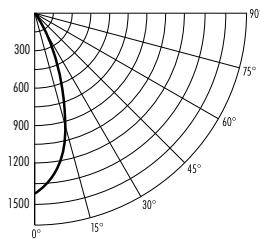
Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
4	231.9	1.4'
6	103.1	2.1'
8	58.0	2.7'
10	37.1	3.4'

LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45	15744
55	7966
65	3719
75	85
85	0

PHOTOMETRIC REPORT

Test Report #: PT10161206
Catalog No: 440LED G4N O6LM
30K 120 BL, 40° Flood Optic
Luminaire Spacing Criterion: 0.6
Luminaire LPW: 84



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0°
0	1410
5	1353
15	963
25	430
35	114
45	30
55	9
65	2
75	0
85	0
90	0

Multiplier:
27K - 0.96 35K - 1.03
30K - 1.00 40K - 1.06

AVERAGE INITIAL FOOTCANDLES

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

Spacing	RCR1	RCR3	RCR5
4.0'	49	43	39
5.0'	31	28	25
6.0'	22	19	17
7.0'	18	16	14
8.0'	14	12	11
9.0'	11	9	8
10.0'	8	7	6

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixture
0 - 30°	583	N/A	84.0
0 - 40°	659	N/A	94.9
0 - 60°	691	N/A	99.6
0 - 90°	694	N/A	100.0

INITIAL FOOTCANDLES

(One Unit, 8.2W, 39.2° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
4	88.1	2.8'
6	39.2	4.3'
8	22.0	5.7'
10	14.1	7.1'

LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45	21483
55	7772
65	2704
75	134
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.