

# JUNO®

Project: \_\_\_\_\_

Fixture Type: \_\_\_\_\_

Location: \_\_\_\_\_

Contact/Phone: \_\_\_\_\_

## 4" IC 600 LUMEN LED RECESSED GIMBAL NEW CONSTRUCTION



IC1ALED 440LED (G4N 06LM)

### PRODUCT DESCRIPTION

Dedicated LED, Air-Loc® sealed new construction housing with adjustable accent light engine trim module • 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 light engine module is designed to provide 50,000 hours of life • 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 Trim Module** LED array attached to die cast trim provides superior heat transfer to ensure long life of the LED • Replaceable light engine incorporates the latest generation, high lumen output LED array • LEDs are binned within a 3-step Mac Adam Ellipse exceeding ENERGY STAR® requirements for superior fixture to fixture color uniformity • 2700K, 3000K, 3500K and 4000K color temperatures with 90 CRI minimum • 440LED G4N Light engine module features a plug-in connector for easy installation with IC1ALED G4N 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.

**Trim** Die cast adjustable gimbal trim features shadow free knife edge to blend seamlessly into ceiling • Available in multiple finishes - White, Black, Satin Chrome and Aged Bronze.

**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® Certified • Certified to the high efficiency requirements of California T24 JA8-2016 • 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.

Specifications subject to change without notice.

### HOUSING FEATURES

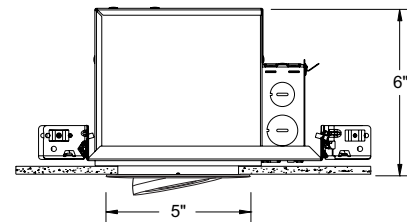
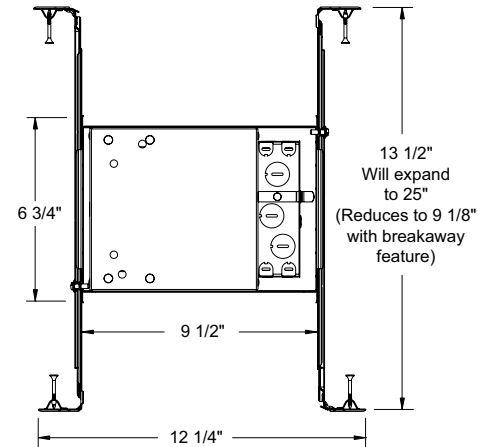
**Housing** Designed for use in IC (insulated ceiling) or non-IC construction • Aluminum housing sealed for Air-Loc® compliance • Housing is vertically adjustable to accommodate up to a 1 1/2" ceiling thickness.

**Junction Box** Pre-wired junction box provided with (6) 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 6 #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** Telescoping Real Nail 3 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 • Design covered under US Patent D552,969.

### DIMENSIONS



4 1/2" CEILING CUTOUT

### ELECTRICAL DATA

#### Dedicated 120V Only Driver Option (120)

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)

	120V	277V
Input Power	7.9W (+/-5%)	8.0W (+/-5%)
Input Current - Max	0.07A	0.03A
Frequency	50/60Hz	50/60Hz
EMI/RFI	FCC Title 47 CFR, Part 15 Class A (non-consumer)	FCC Title 47 CFR, Part 15 Class A (non-consumer)
Minimum starting temp	-20°C	-20°C

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

**Example:** IC1ALED 440LED G4N 06LM 27K 90CRI 120 FRPC ABZ

Series	Trim Series	Generation	Lumens	Color Temperature	CRI	Voltage	Driver	Trim Finish
IC1ALED 4" LED Adjustable New Construction Housing	440LED 4" LED Adjustable Trim	G4N Generation 4 New	06LM 600 Nominal Lumens	27K 2700K	90CRI 90+ CRI	120 120V	FRPC Forward/Reverse Phase Cut ZT 0-10V Dimming Driver	ABZ Classic Aged Bronze
				30K 3000K		MVOLT Multi-Volt		BL Black
				35K 3500K				SC Satin Chrome
				40K 4000K				WH White

## Accessories

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

To order, specify catalog number.

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## PHOTOMETRICS

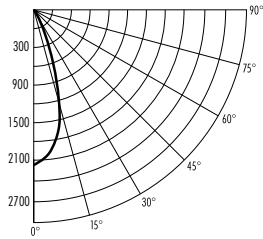
### PHOTOMETRIC REPORT

Test Report #: PT10161204

Catalog No: IC1ALED 440LED G4N 06LM  
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

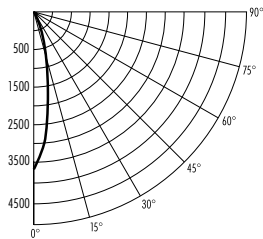
### PHOTOMETRIC REPORT

Test Report #: PT10161205

Catalog No: IC1ALED 440LED G4N 06LM  
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

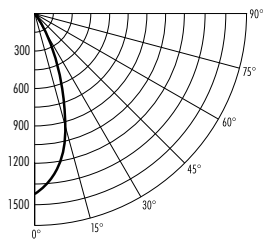
### PHOTOMETRIC REPORT

Test Report #: PT10161206

Catalog No: IC1ALED 440LED G4N 06LM  
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

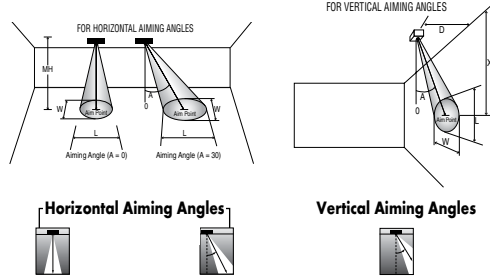
Fixtures tested to IES recommended standard for solid state lighting per LM-79-08. Photometric performance on a single unit represents a baseline of performance for the fixture. Results may vary in the field.

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**CBCP** • Centerbeam candlepower  
**FC** • Footcandles at beam center (aim point)

In vertical aiming applications, aim point (X) is determined by dividing distance from the wall (D) by the tangent of the desired aim angle (A) (0.5774 for 30°).



Beam Type	Beam Spread°	Rated Life	CBCP	0°			30°			30°					
				MH	FC	L	W	FC	L	W	D	FC	X	L	W
IC1ALED G4N Flood Optic	40°	50000	1410	3	157	2.2	2.2	102	3.0	2.5	1	176	1.7	4.8	1.5
				4	88	2.9	2.9	57	4.1	3.4	2	44	3.5	9.7	2.9
				5	56	3.6	3.6	37	5.1	4.2	3	20	5.2	14.5	4.4
				6	39	4.4	4.4	25	6.1	5.0	4	11	6.9	19.3	5.8
				7	29	5.1	5.1	19	7.1	5.9	5	7	8.7	24.2	7.3
IC1ALED G4N Narrow Flood Optic	30°	50000	2182	3	242	1.6	1.6	157	2.2	1.9	1	273	1.7	2.7	1.1
				4	136	2.1	2.1	89	2.9	2.5	2	68	3.5	5.5	2.1
				5	87	2.7	2.7	57	3.7	3.1	3	30	5.2	8.2	3.2
				6	61	3.2	3.2	39	4.4	3.7	4	17	6.9	10.9	4.3
				7	45	3.8	3.8	29	5.1	4.3	5	11	8.7	13.7	5.4
IC1ALED G4N Spot Optic	18°	50000	3710	4	232	1.3	1.3	151	1.7	1.5	2	116	3.5	2.7	1.3
				5	148	1.6	1.6	96	2.1	1.8	3	52	5.2	4.1	1.9
				6	103	1.9	1.9	67	2.6	2.2	4	29	6.9	5.5	2.5
				7	76	2.2	2.2	49	3.0	2.6	5	19	8.7	6.9	3.2
				8	58	2.5	2.5	38	3.4	2.9	6	13	10.4	8.2	3.8

For 2700K fixtures, use 0.96 multiplier; for 3000K fixtures, use 1.00 multiplier; for 3500K fixtures, use 1.03 multiplier; for 4000K fixtures, use 1.06 multiplier.