

**JUNO**

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

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

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

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



# 4" IC 600 LUMEN LED RECESSED ADJUSTABLE REMODEL

**IC1RALEDG4-440LEDG4**

## PRODUCT DESCRIPTION

Dedicated LED, Air-Loc® remodel housing with adjustable accent light engine trim module • 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 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 MacAdam Ellipse exceeding ENERGY STAR® requirements for superior fixture to fixture color uniformity • 2700K, 3000K, 3500K and 4100K color temperatures with 90 CRI minimum • 440LEDG4 Light engine module features a plug-in connector for easy installation with IC1RALEDG4 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 on the j-box for easy access and cool operation.

**Life** Rated for 50,000 hours at 70% lumen maintenance.

**Labels** ENERGY STAR® Qualified • Certified to the high efficiency requirements of California T24 • 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.

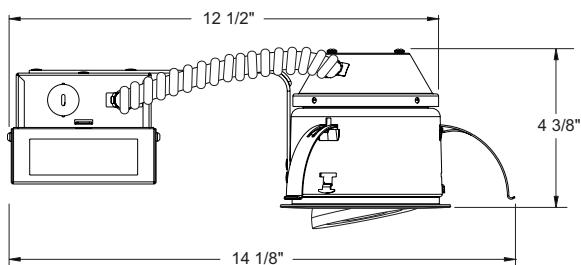
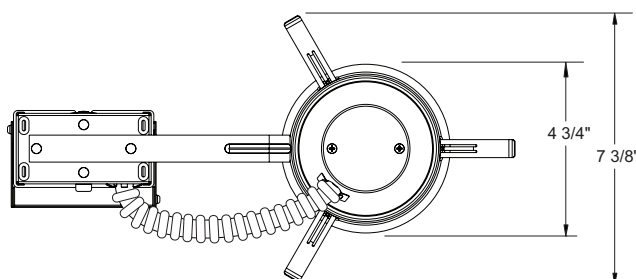
Product specifications subject to change without notice.

## HOUSING FEATURES

**Housing** Designed for use in IC (insulated ceiling) or non-IC construction • Aluminum housing sealed for Air-Loc • Remodel springs accommodate up to 1½" ceiling thickness.

**Junction Box** Pre-wired junction box provided with (5) ½" 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

120V	
Input Power	10.2W (+/-5%)
Input Current - Max	0.10A
Frequency	50/60Hz
EMI/RFI	FCC Title 47 CFR, Part 15, Class B (residential)
Minimum starting temp	-20°C

## ELECTRICAL DATA

### Universal Voltage

	120V	277V
Input Power	11W (+/-5%)	11.3W (+/-5%)
Input Current - Max	0.10A	0.05A
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	-40°C	-40°C

# 4" IC 600 LUMEN LED RECESSED ADJUSTABLE REMODEL IC1RALEDG4-440LEDG4

**ORDERING INFORMATION:** Housing and Light Engine Trim Module each ordered separately.

Example: IC1RALEDG4-6-1			Example: 440LEDG4-27K-6-WH				Accessories			
Housing	Lumens	Input Voltage	Light Engine Trim Module				Cat. #	Description		
IC1RALEDG4	6 600 lm	1 Dedicated 120V Only (Forward Phase + ELV dimmable) U Universal Voltage, 120-277V (0-10V dimmable)	Trim	CCT	Lumens	Finish	T741	Med. Pink Color Filter	T7406	Magenta Dichroic Lens
			440LEDG4	27K 2700K	6 600 lm	WH White	T742	Warm Red Color Filter	T7411	Blue Green Dichroic Lens
				3K 3000K		BL Black	T743	Daylight Blue Color Filter	T7416	Daylight Blue Correction Lens
				35K 3500K		SC Satin Chrome	T744	Med. Blue Color Filter	T7420	Diffuse Spread Lens
				41K 4100K		ABZ Aged Bronze	T745	Med. Amber Color Filter	T7422	UV Filter Lens
							T746	Med. Green Color Filter	T7459BL	Hexcell Louver
							T7401	Red Dichroic Lens	T7477	Linear Spread Lens
							T7403	Med. Green Dichroic Lens	TIR-1-SP	18° Spot Optic
							T7404	Med. Blue Dichroic Lens	TIR-2-NFL	30° Narrow Flood Optic
							T7405	Yellow Dichroic Lens	TIR-2-FL	40° Flood Optic
										To order, specify catalog number.

## PHOTOMETRIC REPORT

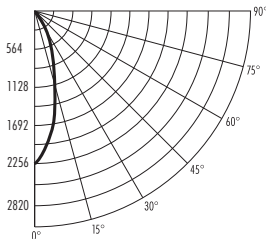
Test Report #: PT04130203

Catalog No: IC1RALEDG4-6-1

with 440LEDG4-3K-6-WH,  
30° Narrow Flood Optic

Luminaire Spacing Criterion: 0.54

Luminaire LPW: 70



## CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0°
0	2256
5	2156
15	1231
25	178
35	50
45	19
55	7
65	2
75	0
85	0
90	0

## 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	25
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°	620	N/A	91.7
0-40°	653	N/A	96.5
0-60°	674	N/A	99.7
0-90°	676	N/A	100.0

## INITIAL FOOTCANDLES

(One Unit, 9.6W , 31.4° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
4	141.0	2.2'
6	62.7	3.4'
8	35.3	4.5'
10	22.6	5.6'

## LUMINANCE (Average cd/m<sup>2</sup>)

Degrees	Average Luminance
45	15921
55	7427
65	2736
75	0
85	0

For 2700K fixtures, use 0.96 multiplier; for 3000K fixtures, use 1.00 multiplier; for 3500K fixtures, use 1.03 multiplier; for 4100K fixtures, use 1.06 multiplier.

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.

## PHOTOMETRIC REPORT

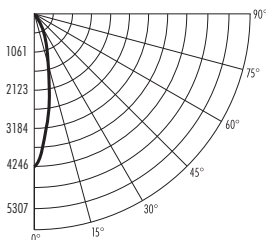
Test Report #: PT04130202

Catalog No: IC1RALEDG4-6-1

with 440LEDG4-3K-6-WH,  
18° Spot Optic

Luminaire Spacing Criterion: 0.32

Luminaire LPW: 71



## CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0°
0	4246
5	3452
15	890
25	178
35	36
45	17
55	8
65	3
75	0
85	0
90	0

## AVERAGE INITIAL FOOTCANDLES

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

Ceiling 80% Wall 50% Floor 20%

Spacing	RCR1	RCR3	RCR5
4.0'	48	44	41
5.0'	31	28	26
6.0'	21	19	18
7.0'	17	16	15
8.0'	14	12	12
9.0'	10	9	9
10.0'	8	7	6

## ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixture
0-30°	629	N/A	92.9
0-40°	653	N/A	96.5
0-60°	674	N/A	99.5
0-90°	677	N/A	100.0

## INITIAL FOOTCANDLES

(One Unit, 9.6W , 18.7° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
4	265.4	1.3'
6	117.9	2.0'
8	66.3	2.6'
10	42.5	3.3'

## LUMINANCE (Average cd/m<sup>2</sup>)

Degrees	Average Luminance
45	14630
55	8382
65	4032
75	705
85	0

For 2700K fixtures, use 0.96 multiplier; for 3000K fixtures, use 1.00 multiplier; for 3500K fixtures, use 1.03 multiplier; for 4100K fixtures, use 1.06 multiplier.

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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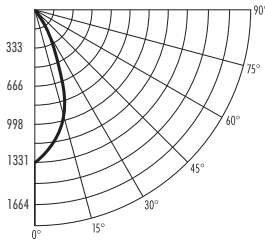
# 4" IC 600 LUMEN LED RECESSED ADJUSTABLE REMODEL IC1RALEDG4-440LEDG4

**PHOTOMETRIC REPORT**

Test Report #: PT04130204  
Catalog No: IC1RALEDG4-6-1  
with 440LEDG4-3K-6-WH,  
40° Flood Optic

Luminaire Spacing Criterion: 0.66

Luminaire LPW: 70



**CANDLEPOWER DISTRIBUTION (Candelas)**

Degrees Vertical	0°
0	1331
5	1268
15	924
25	440
35	103
45	25
55	7
65	2
75	0
85	0
90	0

**AVERAGE INITIAL FOOTCANDLES**

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

Spacing	RCR1	RCR3	RCR5
4.0'	47	41	37
5.0'	30	26	24
6.0'	21	18	17
7.0'	17	15	13
8.0'	13	12	11
9.0'	10	9	8
10.0'	7	7	6

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixture
0-30°	569	N/A	85.1
0-40°	640	N/A	95.6
0-60°	667	N/A	99.7
0-90°	669	N/A	100.0

**INITIAL FOOTCANDLES (One Unit, 9.6W, 40.8° Beam)**

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
4	83.2	3.0'
6	37.0	4.5'
8	20.8	6.0'
10	13.3	7.4'

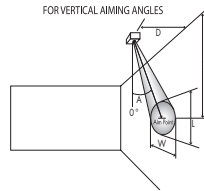
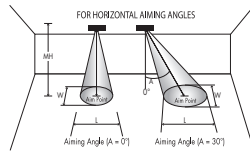
**LUMINANCE (Average cd/m²)**

Degrees	Average Luminance
45	21429
55	7851
65	2592
75	0
85	0

For 2700K fixtures, use 0.96 multiplier; for 3000K fixtures, use 1.00 multiplier; for 3500K fixtures, use 1.03 multiplier; for 4100K fixtures, use 1.06 multiplier.

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.

**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
IC1ALEDG4 Flood Optic	40°	50000	1331	3	148	2.2	2.2	96	3.1	2.6	1	166	1.7	5.1	1.5
				4	83	3.0	3.0	54	4.2	3.4	2	42	3.5	3.5	3.0
				5	53	3.7	3.7	35	5.2	4.3	3	18	5.2	15.3	4.5
				6	37	4.5	4.5	24	6.2	5.2	4	10	6.9	20.3	6.0
				7	27	5.2	5.2	18	7.3	6.0	5	7	8.7	25.4	7.4
IC1ALEDG4 Narrow Flood Optic	30°	50000	2256	3	251	1.7	1.7	163	2.3	1.9	1	282	1.7	2.9	1.1
				4	141	2.2	2.2	92	3.1	2.6	2	71	3.5	5.9	2.2
				5	90	2.8	2.8	59	3.8	3.2	3	31	5.2	8.8	3.4
				6	63	3.4	3.4	41	4.6	3.9	4	18	6.9	11.8	4.5
				7	46	3.9	3.9	30	5.4	4.5	5	11	8.7	14.7	5.6
IC1ALEDG4 Spot Optic	18°	50000	4246	4	265	1.3	1.3	172	1.8	1.5	2	133	3.5	2.9	1.3
				5	170	1.6	1.6	110	2.2	1.9	3	59	5.2	4.3	2.0
				6	118	2.0	2.0	77	2.7	2.3	4	33	6.9	5.7	2.6
				7	87	2.3	2.3	56	3.1	2.7	5	21	8.7	7.2	3.3
				8	66	2.6	2.6	43	3.5	3.0	6	15	10.4	8.6	4.0

For 2700K fixtures, use 0.96 multiplier; for 3000K fixtures, use 1.00 multiplier; for 3500K fixtures, use 1.03 multiplier; for 4100K fixtures, use 1.06 multiplier.

