



4" IC 600 LUMEN LED RECESSED ADJUSTABLE NEW CONSTRUCTION

Project: _____

Fixture Type: _____

Location: _____

Contact/Phone: _____



IC1ALEDG4-440LEDG4

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 4100K color temperatures with 90 CRI minimum • 440LEDG4 Light engine module features a plug-in connector for easy installation with IC1ALEDG4 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® 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

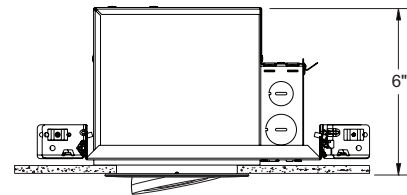
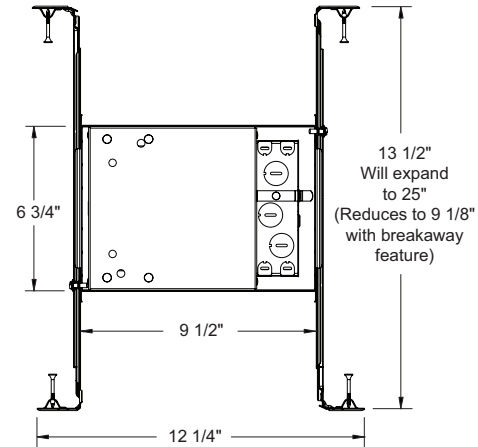
Housing Designed for use in IC (insulated ceiling) or non-IC construction • Aluminum housing sealed for Air-Loc® compliance • Housing is vertically adjustable to accommodate up to a 1 1/2" ceiling thickness.

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 Patents US5,505,419 and D552,969.

DIMENSIONS



4 1/2" 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

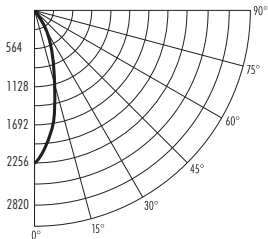
4" IC 600 LUMEN LED RECESSED ADJUSTABLE NEW CONSTRUCTION IC1ALEDG4-440LEDG4

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

Example: IC1ALEDG4-6-1		Example: 440LEDG4-27K-6-WH							
		Light Engine Trim Module				Accessories			
Housing	Lumens	Input Voltage		Trim	CCT	Lumens	Finish		
IC1ALEDG4	6 600 lm	1 Dedicated 120V Only (Forward Phase + ELV dimmable)		440LEDG4	27K 2700K	6 600 lm	WH White		
		U Universal Voltage, 120-277V (0-10V dimmable)			3K 3000K		BL Black		
					35K 3500K		SC Satin Chrome		
					41K 4100K		ABZ Aged Bronze		
							Cat. # Description		
							T7406 Magenta Dichroic Lens		
							T7411 Blue Green Dichroic Lens		
							T7416 Daylight Blue Correction Lens		
							T7420 Diffuse Spread Lens		
							T7422 UV Filter Lens		
							T7459BL Hexcell Louver		
							T7477 Linear Spread Lens		
							T7477 Prismatic Lens		
							TIR-1-SP 18° Spot Optic		
							TIR-2-NFL 30° Narrow Flood Optic		
							TIR-2-FL 40° Flood Optic		
							To order, specify catalog number.		

PHOTOMETRIC REPORT

Test Report #: PT04130203
Catalog No: IC1ALEDG4-6-1
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/m²)

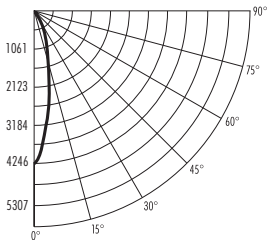
Degrees	Average Luminance
45	15921
55	7427
65	2736
75	0
85	0

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: IC1ALEDG4-6-1
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/m²)

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.



4" IC 600 LUMEN LED RECESSED ADJUSTABLE NEW CONSTRUCTION

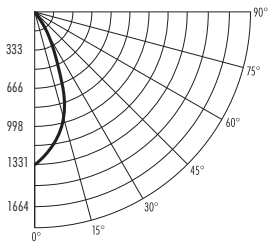
IC1ALEDG4-440LEDG4

PHOTOMETRIC REPORT

Test Report #: PT04130204
 Catalog No: IC1ALEDG4-6-1
 with 440LEDG4-3K-6-WH,
 40° Flood Optic

Luminaire Spacing Criterion: 0.66

Luminaire LPW: 70



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees	Candelas
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

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'

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

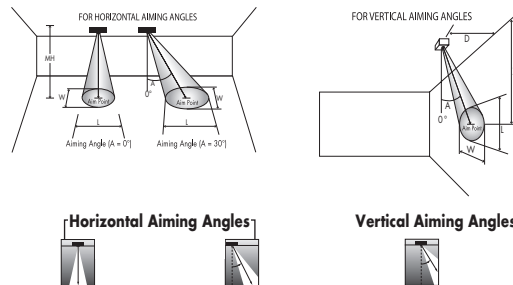
LUMINANCE (Average cd/m²)

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.

