



Project: _____

Fixture Type: _____

Location: _____

Contact/Phone: _____



4" IC 600 LUMEN LED RECESSED GIMBAL NEW CONSTRUCTION

IC1ALEDG4N-440LEDG4N

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 MacAdam Ellipse exceeding ENERGY STAR® requirements for superior fixture to fixture color uniformity • 2700K, 3000K, 3500K and 4100K color temperatures with 90 CRI minimum • 440LEDG4N Light engine module features a plug-in connector for easy installation with IC1ALEDG4N 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

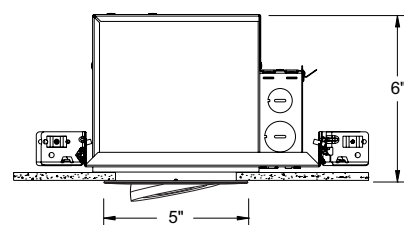
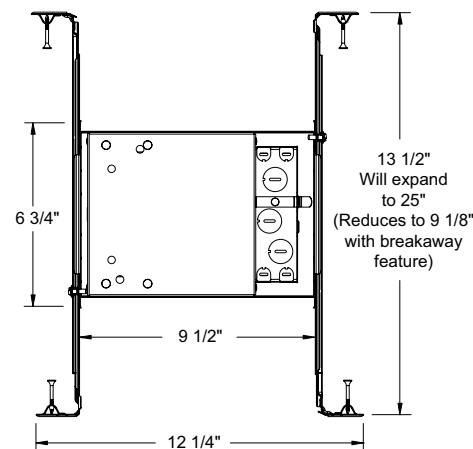
Housing Designed for use in IC (insulated ceiling) or non-IC construction • Aluminum housing sealed for Air-Loc® compliance • Housing is vertically adjustable to accommodate up to a 1 1/2" ceiling thickness.

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 US Patent D552,969.

DIMENSIONS



4 1/2" CEILING CUTOUT

ELECTRICAL DATA

Dedicated 120V Only Driver

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

	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

4" IC 600 LUMEN LED RECESSED GIMBAL NEW CONSTRUCTION IC1ALEDG4N-440LEDG4N

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

Example: **IC1ALEDG4N-6-1**

Example: **440LEDG4N-27-6-WH**

Housing			Light Engine Trim Module				Accessories	
Housing	Lumens	Input Voltage	Trim	CCT	Lumens	Finish	Cat. #	Description
IC1ALEDG4N	6 600 lm	1 Dedicated 120V Only (Forward Phase + ELV dimmable) U Universal Voltage 120-277V (0-10V dimmable)	440LEDG4N	27 2700K 3 3000K 35 3500K 41 4100K	6 600 lm	WH White BL Black SC Satin Chrome ABZ Aged Bronze	T741 Med. Pink Color Filter T742 Warm Red Color Filter T743 Daylight Blue Color Filter T744 Med. Blue Color Filter T745 Med. Amber Color Filter T746 Med. Green Color Filter T7401 Red Dichroic Lens T7403 Med. Green Dichroic Lens T7404 Med. Blue Dichroic Lens T7405 Yellow Dichroic Lens	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 T7478 Linear Spread Lens T7477 Prismatic Lens TIR-1-SP 18° Spot Optic TIR-1-NFL 30° Narrow Flood Optic TIR-1-FL 40° Flood Optic To order, specify catalog number.

PHOTOMETRIC REPORT

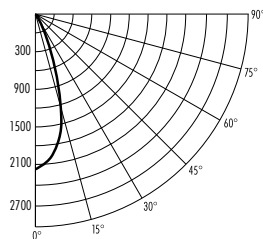
Test Report #: PT10161204

Catalog No: IC1ALEDG4N-6-1

with 440LEDG4N-3-6-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

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

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

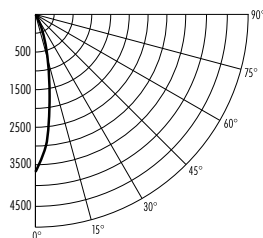
Test Report #: PT10161205

Catalog No: IC1ALEDG4N-6-1

with 440LEDG4N-3-6-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

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

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 GIMBAL NEW CONSTRUCTION IC1ALEDG4N-440LEDG4N

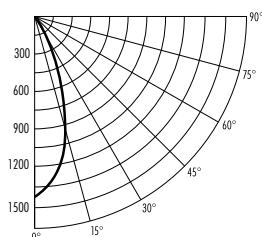
PHOTOMETRIC REPORT

Test Report #: PT10161206

Catalog No: IC1ALEDG4N-6-1
with 440LEDG4N-3-6-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

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

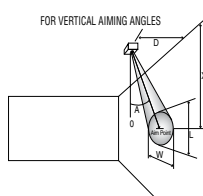
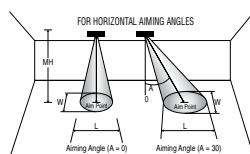
For 2700K fixtures, use 0.96 multiplier; for 3000K fixtures, use 1.00 multiplier; for 3500K fixtures, use 1.03 multiplier; for 4100K fixtures, use 1.06 multiplier.

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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
IC1ALEDG4N 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
IC1ALEDG4N 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
IC1ALEDG4N 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 4100K fixtures, use 1.06 multiplier.