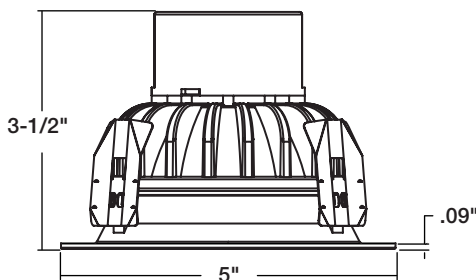


RL430

4" LED RETROFIT DIE-CAST ALUMINUM LENSED STEPPED BAFFLE



DIMENSION



INSTALLATION

Socket adapter removes from module, allowing installation to be quick and easy. Simply screw in the adapter and plug in the module. Turning off the entire module is not required.

Utilizes industry standard friction blades, installs in most 4" incandescent downlights. Insert friction blades into can and press trim to ceiling.

Plenum Rated when its used with a housing

You MUST seal all gaps between the ceiling and fixture with weatherproof silicone sealant. This deters moisture and water from damaging fixtures and other mechanical ceiling elements.

UNIQUELY ENGINEERED FOR NEW AND EXISTING CONSTRUCTION

The Elite **RL430** has been engineered for new construction where Title-24's 'No Edison Socket' mandate has been initiated. A dedicated housing installs the same as any other Elite Lighting product and features our adjustable, lockable and tiltable nail bars. The **RL430** can also be installed into most 4" incandescent downlights by using our unique Edison adapter.

Over 900 usable lumens are directed from the luminaire to the work surface. Lighting is smooth and comfortable, all while using 75% less energy than the equivalent 50W BR20 and 25% less than the common 13W CFL. Plus the Elite **RL430** features 50,000hrs of life, and California Title-24 compliance.

INPUT VOLT.	INPUT FREQ.	THD	POWER FACTOR	INPUT POWER	LUMENS
120 / 277 (LD4 Only)	50/60Hz	<20%	>0.9	9W (+/-5%)	650
120 / 277 (LD4 Only)	50/60Hz	<20%	>0.9	11W (+/-5%)	900

FEATURES

Greater light output than a 13W CFL or a 50W BR20 while consuming less than 10W of power.

OPTICS

The Elite-Engineered LED Module system is much more than just a simple LED retrofit. The Elite LED system is a highly engineered work of design and optical science which produces over 900 lumens! Our meticulously crafted optics gather the light scattered by the LED chip and shape it into a functional beam with uniform light distribution. The baffle also offers the benefits of a smooth integrated light with glare reduction at a 55 degree cut-off, which minimizes brightness. Optic combinations available in Baffle, Reflector, and Wall Wash options to fit any lighting application.

DURABILITY

Die-cast aluminum housing and heat management system are engineered for extremely long life and service period. Without proper heat management, any LED luminaire will fail. Our die-cast system pulls the heat from the LED chip, allowing the continued cool operation for years. Life tests have shown the Elite **RL430** light output will be maintained at 70% of initial at 50,000 hours of operation. Our superior design allows for installation in construction that requires the Elite Air-Shut™ system. Our LED driver is rated for 50 to 60 Hz at 120V input, produces less than 10% THD, has a power factor between 0.90 and 1.00 and is thermal protected for additional safety.

REPEATABLE

Repeatability means quality. From our chip selection process, to our driver, to the thermal management, the Elite LED Module is engineered for quality. All Elite LED luminaires are rated at 85+ and 90+ CRI and 27K, 30K, 35K, 40K and 50K, as rated and tested to LM-79 and LM-80 standards by a certified laboratory, and meets the California Title-24 compliance standards. Elite's highly selective LED chips produce zero ultraviolet and virtually no infrared light.

DIMMABLE

The Elite **RL430** system is fully dimmable down to 10% of initial light output with a Triac dimmer when ordered with the following options (DIMTR-120). Dimmer control must have same AC input rating as the dimmable power supply driver it connects to. Other electronic low voltage dimmers may be compatible, but have not been tested by Elite LED Lighting.

INTERCHANGEABLE

The Elite **RL430** system works in our dedicated (LD4IC-AT, LD4-AT, LD4R-AT) housings and our existing 4" incandescent housings (or standard B4IC-AT, B4-AT and B4R-AT - 120V Only) but is also suitable for use in most 4" recessed downlight housing.

ADAPTABLE

All Elite **RL430** luminaires are shipped standard with our custom engineered Edison adapter. This adapter assembly allows the luminaires to install directly into existing Elite 4" downlight housings and most other 4" downlight housings.

OUR WORD

The Elite LED lighting system carries a five-year carefree warranty for parts and components. (Labor not included)



CERTIFICATIONS

- RoHS
- IECC
- New York state
- Made in USA
- California Title 24
- Washington state
- LM79/LM80

RL430

4" LED RETROFIT DIE-CAST ALUMINUM LENSED STEPPED BAFFLE



Elite's innovative LED retrofit downlight modules deliver the brightest, most beautiful and most energy efficient ambient lighting to replace any lamp type on your existing fixture.

Example: **RL430-650L-DIMTR-120-30K-90-W-WH**

Lumens may vary based on the trim colors. See IES files for output lumens of each.

TYPE	650L SERIES	900L SERIES	CCT	CRI	FINISH	OPTION
RL430 (Baffle)	<input type="checkbox"/> 650L-DIMTR-120 <input type="checkbox"/> 650-DIM10-MVOLT <input type="checkbox"/> 650L-277 (Non Dimmable)	<input type="checkbox"/> 900L-DIMTR-120 <input type="checkbox"/> 900L-DIM10-MVOLT	<input type="checkbox"/> 27K <input type="checkbox"/> 30K <input type="checkbox"/> 35K <input type="checkbox"/> 40K <input type="checkbox"/> 50K (CRI 85+ Only)	<input type="checkbox"/> 85+ <input type="checkbox"/> 90+	<input type="checkbox"/> W-WH <input type="checkbox"/> P-WH <input type="checkbox"/> SN-SN <input type="checkbox"/> CP-CP <input type="checkbox"/> BZ-BZ <input type="checkbox"/> P-BK	<input type="checkbox"/> GU24SA GU24 SOCKET ADAPTER

Ordering Guide for Compatible Housing			
IC - New Construction	Non-IC New Construction	IC - For Remodel	Non-IC For Remodel
LD4IC-AT	LD4-AT	LD4RIC-AT	LD4R-AT
HLD4IC-AT	HLD4-AT		HLD4R-AT
B4IC-AT	B4-AT		B4R-AT

*RECOMMENDED DIMMERS FOR ELITE -RL430

LUTRON DIMMERS	
DIMTR	
Diva DVCL-153P Skylark CTCL-153P Nova N-600 NovaT NT-600 Skylark S-600 Ariadni AY-600P Nova NTLV-600 Nova NLV-600	NovaT NTELV-600 Diva DVELV-300P Skylark SELV-300P Nova NELV-450

LEVITON DIMMERS	
DIMTR	
IllumaTech IPE04 Sureslide 6633 Acenti Vizia+	

4" LED RETROFIT MODULE - PHOTOMETRY

RL430-650L-DIMTR-120-27K-90-W-WH

INPUT WATTS: **9.48002**

LUMENS: **867**

CRI: **90**

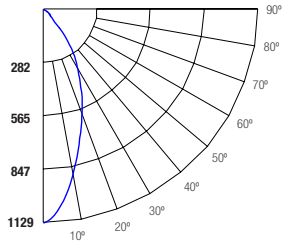
EFFICACY: **92**

CCT: **2700K**

TEST NO.: **ELB092319101**

SPACING CRITERIA: **0.80**

Candle Power Distribution (Candelas)



Cone of Light			
2	281	1.7	1.7
4	70.3	3.4	3.4
6	31.2	5.1	5.1
8	17.6	6.8	6.8
10	11.2	8.4	8.4
12	7.81	10.1	10.1
(FT.) Distance to Plane	(FC.) Initial Footcandle at Nadir	(FT.) Beam Vert. Spread	(FT.) Beam Horiz. Spread

BEAM DIA. MEASURED AT 50% OF NADIR F.C.

Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-20	311.94	36.00	36.00
0-30	545.89	62.90	62.90
0-40	733.75	84.60	84.60
0-60	845.13	97.40	97.40
0-80	866.64	99.90	99.90
0-90	866.67	99.90	99.90

Luminance Data (cd/sq.m)

Angle In Degrees	Average 0°	Average 45°	Average 90°
45°	29709	31447	40030
55°	21962	22559	24045
65°	12376	13437	15794
75°	555	1243	3108
85°	118	79	79

Lumens Per Zone

Zone	Lumens
0-10	97.32
10-20	214.62
20-30	233.96
30-40	187.86
40-50	76.12
50-60	35.26
60-70	18.56
70-80	2.96
80-90	0.02

Candela Tabulation

Q	
0	1124.67
5	1039.58
15	734.37
25	481.39
35	276.70
45	61.37
55	36.80
65	15.28
75	0.42
85	0.03
90	0.03

Coefficients of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance 0.20

RC	80%				70%				50%				30%				10%				0%
	RW	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%		
ROOM CAVITY RATIO	0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
	1	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	92		
	2	107	102	97	94	105	100	96	93	97	93	90	94	91	89	91	89	87	85		
	3	101	94	89	84	99	93	88	84	90	86	82	87	84	81	85	82	80	78		
	4	95	87	81	77	94	86	81	76	84	79	75	82	78	74	80	76	74	72		
	5	90	81	75	70	88	80	74	70	78	73	69	77	72	69	75	71	68	67		
	6	85	76	70	65	84	75	69	65	74	68	64	72	67	64	71	67	63	62		
	7	81	71	65	60	80	70	64	60	69	64	60	68	63	59	67	62	59	58		
	8	77	67	60	56	76	66	60	56	65	60	56	64	59	55	63	59	55	54		
	9	73	63	57	53	72	62	56	52	61	56	52	60	56	52	60	55	52	50		
10	70	59	53	49	68	59	53	49	58	53	49	57	52	49	57	52	49	47			

RC - Ceiling Cavity Reflectance

RW - Wall Reflectance

RL430-900L-DIMTR-120-27K-90-W-WH

INPUT WATTS: **11.4606**

LUMENS: **1035**

CRI: **90**

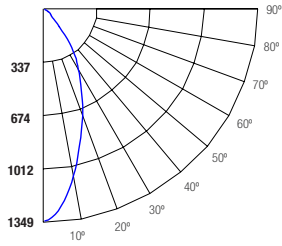
EFFICACY: **90**

CCT: **2700K**

TEST NO.: **ELB092419103**

SPACING CRITERIA: **0.80**

Candle Power Distribution (Candelas)



Cone of Light			
2	336	1.7	1.7
4	84.1	3.4	3.4
6	37.4	5.1	5.1
8	21	6.8	6.8
10	13.5	8.4	8.4
12	9.34	10.1	10.1
(FT.) Distance to Plane	(FC.) Initial Footcandle at Nadir	(FT.) Beam Vert. Spread	(FT.) Beam Horiz. Spread

BEAM DIA. MEASURED AT 50% OF NADIR F.C.

Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-20	372.81	36.00	36.00
0-30	651.20	62.90	62.90
0-40	874.54	84.50	84.50
0-60	1008.61	97.40	97.40
0-80	1034.55	99.90	99.90
0-90	1034.58	99.90	99.90

Luminance Data (cd/sq.m)

Angle In Degrees	Average 0°	Average 45°	Average 90°
45°	33722	37401	52781
55°	25734	26450	28533
65°	14563	15762	18929
75°	820	1455	3650
85°	79	79	118

Lumens Per Zone

Zone	Lumens
0-10	116.41
10-20	256.40
20-30	278.38
30-40	223.34
40-50	91.79
50-60	42.28
60-70	22.35
70-80	3.59
80-90	0.02

Candela Tabulation

Q	
0	1345.34
5	1254.34
15	883.70
25	562.66
35	325.35
45	69.66
55	43.12
65	17.98
75	0.62
85	0.02
90	0.02

Coefficients of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance 0.20

ROOM CAVITY RATIO	RC	80%				70%				50%				30%				10%				0%
	RW	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%			
0		119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			
1		113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	92			
2		107	102	97	94	105	100	96	93	97	93	90	94	91	89	91	89	87	85			
3		101	94	89	84	99	93	88	84	90	86	82	87	84	81	85	82	80	78			
4		95	87	81	77	93	86	81	76	84	79	75	82	78	74	80	76	74	72			
5		90	81	75	70	88	80	74	70	78	73	69	77	72	69	75	71	68	67			
6		85	76	69	65	84	75	69	65	73	68	64	72	67	64	71	67	63	62			
7		81	71	65	60	79	70	64	60	69	64	60	68	63	59	67	62	59	58			
8		77	67	60	56	76	66	60	56	65	60	56	64	59	55	63	59	55	54			
9		73	63	57	52	72	62	56	52	61	56	52	60	56	52	60	55	52	50			
10		70	59	53	49	68	59	53	49	58	53	49	57	52	49	57	52	49	47			

RC - Ceiling Cavity Reflectance

RW - Wall Reflectance

LED

4"

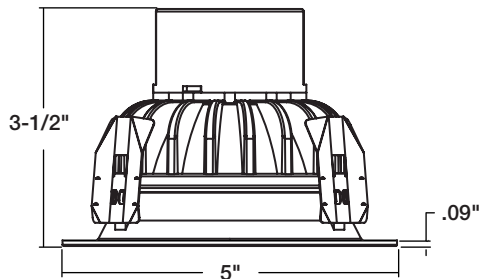
4 INCH LED RETROFIT MODULE

RL430

4" LED RETROFIT DIE-CAST ALUMINUM LENSED STEPPED BAFFLE



LED (Retrofit) Die-cast Aluminum
Lensed Stepped Baffle Trim Ring



(A) LUMEN SERIES	(B) VOLTAGE/DRIVER	(C) CCT	(D) CRI
<input type="checkbox"/> 650L	<input type="checkbox"/> DIMTR-120	<input type="checkbox"/> 27K	<input type="checkbox"/> 85+
<input type="checkbox"/> 900L	<input type="checkbox"/> 277 (non dimmable)	<input type="checkbox"/> 30K	<input type="checkbox"/> 90+
		<input type="checkbox"/> 35K	
		<input type="checkbox"/> 40K	
		<input type="checkbox"/> 50K (85+ CRI ONLY)	
LED (Retrofit) Die-cast Aluminum Lensed Stepped Baffle			
See ordering chart for compatible housing on page 354, 355, 356 & 357			

RL430- **A** - **B** - **C** - **D** -W-WH



W-WH

White- White

RL430- **A** - **B** - **C** - **D** -SN-SN



SN-SN

Satin Nickel- Satin Nickel

RL430- **A** - **B** - **C** - **D** -P-WH



P-WH

Black- White

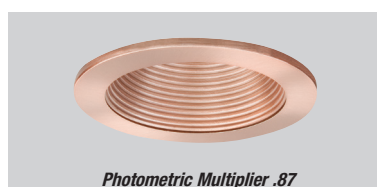
RL430- **A** - **B** - **C** - **D** -P-BK



P-BK

Black- Black

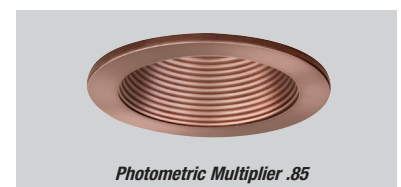
RL430- **A** - **B** - **C** - **D** -CP-CP



CP-CP

Copper- Copper

RL430- **A** - **B** - **C** - **D** -BZ-BZ



BZ-BZ

Bronze- Bronze

LED

4"

4 INCH LED RETROFIT MODULE