

# REL437

## 4" ECONOMY LED RETROFIT LIGHTING MODULE



### CERTIFICATIONS

- cULus
- RoHS
- IECC
- LM97/LM80

**CRI** 90+

**COLOR QUALITY** 3-Step MacAdam Ellipses

**LUMEN OUTPUT** 700 / 1100 Lumens

**CCT** 27K, 30K, 35K, 40K, 50K

**OPTIC** 45° Cut-Off

**WARRANTY** 5 Years

- California Title 24
- New York State
- Washington State



### ENGINEERED FOR VERSATILITY AND PERFORMANCE

The Elite REL437 has been engineered for New Construction, Remodel and Retrofit applications for 4 inch downlights. Dedicated housings install the same way as our standard incandescent downlights. Over 1100 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 18W CFL. Plus the Elite REL437 features 50,000hrs of life, and California Title-24 compliance.

INPUT VOLT.	INPUT FREQ.	THD	POWER FACTOR	INPUT POWER	LUMENS
120	50/60Hz	<20%	>0.9	10W(+/-5%)	700

### FEATURES

Greater light output than an 18W CFL or a 50W BR20 while consuming less than 15W 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 1100 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.

### 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 REL437 light output will be maintained at 70% of initial at 50,000 hours of operation. Our LED driver is rated for 50 to 60 Htz at 120V input, produces less than 20% 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 REL437 Module is engineered for quality. All Elite LED luminaires are rated at 85+ and 90+ CRI, also 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 REL437 lighting system is dimmable down to 10% by using an approved incandescent dimmer or select electronic low voltage dimmers when ordered with DIMTR-120 option. Refer to dimming matrix for more information.

INPUT VOLT.	INPUT FREQ.	THD	POWER FACTOR	INPUT POWER	LUMENS
120	50/60Hz	<20%	>0.9	15W(+/-5%)	1100

### INTERCHANGEABLE

The Elite REL437 LED system works in our dedicated (LD4IC-AT, LD4RIC-AT) housings and our existing 4" incandescent housings (B4IC-AT, B4RIC-AT) but is also suitable for use in most 4" recessed downlight housings.

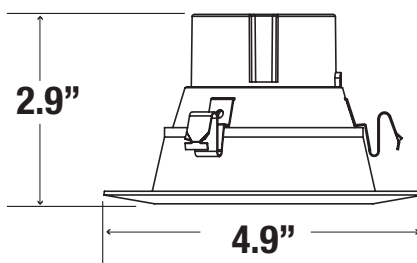
### ADAPTABLE

All Elite REL437 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. GU24 style socket base adapters also available upon request.

### OUR WORD

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

### DIMENSION



### INSTALLATION

Ez connector to use with special high efficacy housing or Edison base adapter for retrofitting into existing 4" incandescent housings.

LED

4"

4 INCH LED RETROFIT MODULE

# REL437

## 4" ECONOMY LED RETROFIT LIGHTING MODULE



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: **REL437-1100L-DIMTR-120-30K-90-W-WH**

TYPE	PERFORMANCE	CCT	CRI	FINISH	OPTION	TRIM OPTIONS	
REL437 (Baffle)	<input type="checkbox"/> 700L-DIMTR-120 <input type="checkbox"/> 1100L-DIMTR-120	<input type="checkbox"/> 27K <input type="checkbox"/> 30K <input type="checkbox"/> 40K <input type="checkbox"/> 50K	<input type="checkbox"/> 90	<input type="checkbox"/> W-WH	<input type="checkbox"/> GU24SA GU24 SOCKET ADAPTER	<input type="checkbox"/> BT (Baffle Trim) <input type="checkbox"/> REL437-BT-SN-SN	<input type="checkbox"/> RT (Reflector Trim) <input type="checkbox"/> REL437-RT-CL-WH

### AVAILABLE COLOR INSERTS FOR REL437 - 4" RETROFIT

#### BAFFLES



REL437-BT-SN-SN

#### REFLECTORS



REL437-RT-CL-WH

#### 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

#### REL437-1100L-DIMTR-120-40K-90-W-WH

INPUT WATTS: **14.4**

LUMENS: **1166**

CRI: **90**

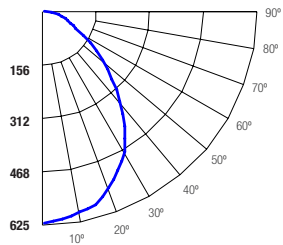
EFFICACY: **81**

CCT: **4000K**

TEST NO.: **EL111746**

SPACING CRITERIA: **1.18**

#### Candle Power Distribution (Candelas)



#### Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-20	221.17	19.00	19.00
0-30	454.86	39.00	39.00
0-40	705.00	60.50	60.50
0-60	1045.86	89.70	89.70
0-80	1160.99	99.60	99.60
0-90	1165.95	100.00	100.00

#### Luminance (Average candela/M<sup>2</sup>)

Angle in Degrees	Average		
	0°	45°	90°
45	50493	49786	50342
55	36301	33552	33403
65	25413	23753	22078
75	21093	20802	20481
85	0	0	13806

#### Lumens Per Zone

Zone	Lumens
0-10	58.11
10-20	163.06
20-30	233.70
30-40	250.14
40-50	206.67
50-60	134.19
60-70	75.20
70-80	39.93
80-90	4.96

#### Candela Tabulation

0	0															
0	624.66															
5	613.80															
15	591.34															
25	517.18															
35	414.72															
45	283.97															
55	165.60															
65	85.42															
75	43.42															
85	0.00															
90	0.00															

#### Coefficients of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance 0.20

ROOM CAVITY RATIO	RC		80%				70%				50%				30%				10%				0%			
	RC	RW	70%	50%	30%	10%	70%	50%	30%	10%	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	100	100	100			
1			111	107	103	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88	88	88	88			
2			103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77	77	77	77			
3			95	86	79	73	93	84	78	73	81	76	71	79	74	70	76	72	69	67	67	67	67			
4			88	77	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59	59	59	59			
5			82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53	53	53	53			
6			76	64	56	50	74	63	56	50	61	55	50	60	54	49	58	53	49	47	47	47	47			
7			71	59	51	45	69	58	50	45	56	50	45	55	49	45	54	48	44	42	42	42	42			
8			66	54	46	41	65	53	46	41	52	45	41	51	45	40	50	44	40	39	39	39	39			
9			62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35	35	35	35			
10			59	46	39	34	57	46	39	34	45	39	34	44	38	34	43	38	34	32	32	32	32			

RC - Ceiling Cavity Reflectance

RW - Wall Reflectance