

REL437

4" ECONOMY LED RETROFIT LIGHTING MODULE



CERTIFICATIONS

- cULus
- RoHS
- IECC
- LM97/LM80

90+

CRI 3-Step MacAdam Ellipses

COLOR QUALITY 700 Lumens

LUMEN OUTPUT 27K/30K/35K/40K/50K

CCT 45° Cut-Off

OPTIC 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	11W(+/-5%)	700

FEATURES

Greater light output than an 18W CFL or a 50W BR20 while consuming less than 11W 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 700 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.

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.

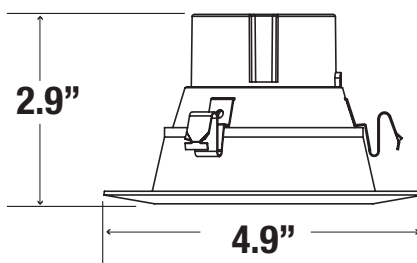
ADAPTABLE

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: **REL437-700L-DIMTR-120-27K/30K/35K/40K/50K-90-W-WH**

TYPE	PERFORMANCE	CCT	CRI	FINISH	OPTION	TRIM OPTIONS
REL437 (Baffle)	<input type="checkbox"/> 700L-DIMTR-120	<input type="checkbox"/> 27K/30K/35K/40K/50K	<input type="checkbox"/> 90	<input type="checkbox"/> W-WH	<input type="checkbox"/> GU24SA GU24 SOCKET ADAPTER	BT (Baffle Trim) <input type="checkbox"/> REL437-BT-SN-SN 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

REL437-700L-DIMTR-120-40K-90-W-WH

INPUT WATTS: **11.1114**

LUMENS: **896**

CRI: **90**

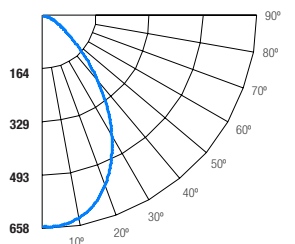
EFFICACY: **81**

CCT: **4000K**

TEST NO.: **EL06131932**

SPACING CRITERIA: **1.04**

Candle Power Distribution (Candelas)



Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-20	229.32	25.60	25.60
0-30	451.17	50.30	50.30
0-40	655.14	73.10	73.10
0-60	855.82	95.50	95.50
0-80	895.43	99.90	99.90
0-90	895.46	99.90	99.90

Luminance (Average candela/M²)

Angle in Degrees	Average 0°	Average 45°	Average 90°
45	787	835	933
55	406	430	476
65	236	250	282
75	58	67	98
85	1	1	1

Lumens Per Zone

Zone	Lumens
0-10	61.50
10-20	167.81
20-30	221.85
30-40	203.97
40-50	133.70
50-60	66.97
60-70	31.70
70-80	7.91
80-90	0.02

Candela Tabulation

θ	Candela
0	656.08
5	645.77
15	583.52
25	462.03
35	303.22
45	153.39
55	64.18
65	27.55
75	4.16
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%			
		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	100			
1	112	109	106	103	110	107	104	102	103	100	98	99	97	95	95	94	93	91	91	91	91	91			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	81	81	81	81	81			
3	98	90	84	79	96	89	83	79	86	81	78	84	80	76	81	78	75	73	73	73	73	73			
4	92	83	76	71	90	82	75	70	79	74	70	77	72	69	75	71	68	66	66	66	66	66			
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60	60	60	60	60			
6	81	70	63	58	79	69	62	58	68	62	57	66	61	57	65	60	56	55	55	55	55	55			
7	76	65	58	53	74	64	57	53	63	57	52	61	56	52	60	55	52	50	50	50	50	50			
8	71	60	53	48	70	60	53	48	58	52	48	57	52	48	56	51	47	46	46	46	46	46			
9	67	56	49	45	66	56	49	44	55	48	44	54	48	44	53	48	44	42	42	42	42	42			
10	64	52	46	41	63	52	46	41	51	45	41	50	45	41	49	44	41	39	39	39	39	39			

RC - Ceiling Cavity Reflectance

RW - Wall Reflectance

Cone of Light		
4.0	2.27 fc	23.8 ft
8.0	0.57 fc	47.5 ft
12.0	0.25 fc	71.3 ft
16.0	0.14 fc	95.1 ft
20.0	0.09 fc	118.8 ft
24.0	0.06 fc	142.6 ft

Distance to Plane Initial Footcandle at Nadir Beam diameter

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