

NOMINAL LUMENS	DELIVERED LUMENS	WATTAGE
650	861	10W

Based on 4000K, 90+ CRI. Actual wattage may vary +/- 5%



## INSTALLATION

Elite LED Retrofits come standard with quick connectors ready for installation in Elite Lighting's LD series recessed housing that are Energy Star and Title 24 rated (LD4IC-AT, LD5IC, LD6IC-AT).

## **FEATURES**

The RL431 is the newest, most efficient, and advanced LED retrofit modules from ELITE Lighting. It's unique design delivers color quality above a 90 CRI rating. The color matching has never been so close, with a binning as low as 3 MacAdams ellipses. The RL431 LED retrofit meet all new mandatory California Title 24 requirements. The Elite RL431` LED Module has been engineered for new constructions to meet Title-24's 'No Edison Socket' mandate. The Elite LED Module 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) but is also suitable for use in most 4"recessed downlight housings in the market.

LUMENS	650
ССТ	27K, 30K, 35K, 40K, 50K
CRI	90+
COLOR QUALITY	3 Step MacAdam Ellipses
TRIM	Aluminum die-cast body and trim
BAFFLE COLORS	W (White standard) (See next page for more color options)
FLANGE COLORS	₩(White standard) (See next page for more color options)
DIMMING	DIMTR (Triac)
LIFETIME	50,000 Hours

## **OPTICS AND REFLECTOR**

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 650 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 LED Module 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 Htz 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 luminaries are rated at 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.

## **INTERCHANGEABLE**

The Elite LED Module 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 LED Module luminaries are shipped standard with our custom engineered Edison adapter. This adapter assembly allows the luminaries to install directly into existing Elite 4" downlight housings and most other 4" downlight housings.

## **DIMMING & DRIVER INFORMATION**

The Elite LED Module 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.

## WARRANTY

Five-year carefree warranty for parts and components. (Labor not included.)

#### LISTINGS

c-UL-us - Listed for Feed Through Wiring.

## EXAMPLE: RL431-650L-DIMTR-120-30K-90-W-WH

TYPE	LUMEN	CCT	CRI	TRIM COLORS
RL431	☐ 650L-DIMTR-120	□ 27K	□ 90+	□ W-WH
		□ 30K		
		□ 35K		
		□ 40K		
		□ 50K (CRI 85+ only)		

## ACCESSORY: GU24SA

AUGULOUGHH. GOL TON	
	OPTIONS
	□ GU24SA - SOCKET FOR LED RETROHT TO GU24

<sup>\*</sup>Accessories order separate

## EXAMPLE: LD4IC-AT-DIMTR-120-M

COMPATIBLE ELITE LIGHTING HOUSINGS				
RATED		RATED		
□ LD4IC-AT-DIMTR-120-M	□ LD4-AT-DIMTR-120	□ LD4RIC-AT-DIMTR-120	□ LD4R-AT-DIMTR-120	
☐ HLD4IC-AT-DIMTR-DIM10-MVOLT	□ HLD4-AT		□ HLD4R-AT	
□ B4IC-AT	□ B4-AT		□ B4R-AT	

<sup>\*</sup>Housing order separate



RING TRIM COLORS				
☐ RL431-BT-BZ-BZ	☐ RL431-RT-BZ-BZ	☐ RL431-RT-MB-WH		
☐ RL431-BT-CP-CP	☐ RL431-RT-CL-WH	☐ RL431-RT-RG-WH		
☐ RL431-BT-P-BK	☐ RL431-RT-CL-CH	☐ RL431-RT-SHZ-SHZ		
☐ RL431-BT-P-WH	☐ RL431-RT-CP-CP	☐ RL431-RT-SHZ-WH		
☐ RL431-BT-SN-SN	☐ RL431-RT-MB-BK	☐ RL431-RT-SN-SN		
☐ RL431-RT-SN-WH	☐ RL431-RT-W-WH			

<sup>\*</sup>Ring trims order separate

EXAMPLE: RL431-BT-BZ-BZ





# **AVAILABLE COLOR INSERTS FOR RL431 - 4" RETROFIT**

## **BAFFLES**











RL431-BT-BZ-BZ

RL431-BT-SN-SN

RL431-BT-CP-CP

## REFLECTORS



RL431-BT-P-BK

RL431-RT-SHZ-WH



RL431-RT-SHZ-SHZ



RL431-RT-RG-WH



RL431-RT-MB-WH



RL431-RT-CP-CP



RL431-RT-SN-SN



RL431-RT-BZ-BZ







RL431-RT-CL-WH

RL431-RT-CL-CH

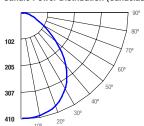


RL431-RT-W-WH

RL431-650L-DIMTR-120-40K-90-W-WH	TEST

TEST NO.: **EL0119150** INPUT WATTS: 10.4 LUMENS: 861 CRI: 90 EFFICACY: 83 CCT: 4000K SPACING CRITERIA: 1.24

## Candle Power Distribution (Candelas)



	90°
102	70°
205	60°
307	50°
410	30° 20°

Cone of Light				
2	102	4	4	
4	25.6	7.9	7.9	
6	11.4	11.9	12	
8	6.4	15.8	16	
10	4.1	19.8	20	
12	2.85	23.7	24.1	
(FT.)Distance to Plane	(FC.) Initial Footcandle at Nadir	(FT.) Beam Vert. Spread	(FT.) Beam Horiz. Spread	

Zonal	Lumens	Summary	

Zone	Lumens	%Lamp	%Fixt
0-20	149.01	17.30	17.30
0-30	311.90	36.20	36.20
0-40	493.07	57.30	57.30
0-60	758.46	88.10	88.10
0-80	851.41	98.90	98.90
0-90	861.05	100.00	100.00

Effective Floor Cavity Reflectance 0.20

RC

RW

ROOM CAVITY RATIO

J-90	861.05	100.00	100.00	
officia	nte of Utiliz	ation - Zon	al Cavity M	athod

80%

70% 50% 30% 10%

Angle in Degrees	Average 0°	Average 45°	Average 90°	<b>Zon</b> 0-1
45	36284	38171	38478	10-
				20-
55	28760	27708	27287	30-
65	21061	19909	17952	40-
75	14821	14098	13641	50-
85	14931	13690	3996	60-
				70-

Luminance (Average candela/M2)

30% 10%

Lumens P	er Zone	Candela Tabulatio		
Zone	Lumens		<u>0</u>	
0-10 10-20 20-30 30-40 40-50 50-60 60-70 70-80 80-90	38.72 110.29 162.89 181.17 157.02 108.37 62.89 30.06 9.65	0 5 15 25 35 45 55 65 75 85	409.71 408.26 391.88 356.08 289.37 204.06 131.20 70.79 30.51	
		00	0.00	

				, ,	0.0		8	5	10.35
							9	0	0.26
50%			30%			10%			0%
50%	30%	10%	50%	30%	10%	50%	30%	10%	0%
111 100 89 80 72 66 60 55 51 47	111 97 85 75 66 59 53 48 44 40 37	111 95 81 70 61 54 48 43 39 35 32	106 96 86 78 70 64 58 54 49 46	106 94 82 73 65 58 52 47 43 40 36	106 92 79 69 60 53 48 43 39 35	102 93 83 75 68 62 57 52 48 45	102 91 80 71 63 57 51 47 43 39 36	102 89 77 68 59 53 47 42 38 35 32	100 87 75 66 57 51 45 41 37 33

RW - Wall Reflectance

70%

70% 50%

