

RL431

4" LED RETROFIT DIE-CAST ALUMINUM LENSED BAFFLE



CERTIFICATIONS

- cULus
- RoHS
- IECC

CRI 90+ , 85+

COLOR QUALITY 3-Step MacAdam Ellipses

LUMEN OUTPUT 650 Lumens

LUMEN PER WATT Up to 60

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

OPTIC 45° Cut-Off

WARRANTY 5 Years

- New York state
- California Title 24
- UL/cUL Listed for Wet
- Washington state
- UL/cUL Listed for Damp Location
- LM79/LM80

UNIQUELY ENGINEERED FOR NEW AND EXISTING CONSTRUCTION

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.

INPUT VOLT.	INPUT FREQ.	THD	POWER FACTOR	INPUT POWER	LUMENS
120	50/60Hz	<20%	>0.9	10W(+/-5%)	650

DURABILITY

Our die-cast system pulls the heat from the LED chip, allowing the continued cool operation for years. Our LED driver is rated for 50 to 60 Hz at 120V input, and produces less than 20% THD, has a power factor between 0.90 and 1.00 and is thermal protected for additional safety.

DIMMABLE

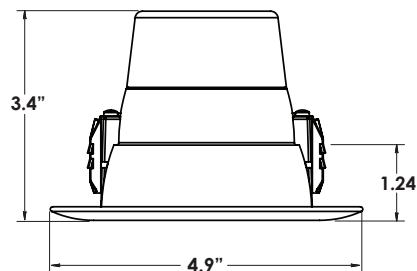
The Elite LED Module is dimmable down to 15% of initial light output with compatible dimmers. Consult factory for complete list of compatible dimming systems.

OUR WORD

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

FEATURES

- Over 650 usable lumens are directed from the luminaire to the work surface
- Greater light output than a 18W CFL or a 50W BR20 while consuming less than 10W of power
- Rated at 90+ CRI to meet California Title-24 strict compliance standards
- Life tested to ensure light output up to 50,000 hours of operation to L70
- Glare reducing cut-off angle of 55 degrees
- High performance optic hides LED chip image but still delivers an even beam of light
- Elite's highly selective LED chips produce zero ultraviolet and virtually no infrared light
- Tested to LM-79 and LM-80 standards
- UL listed for safety



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 down lights. Insert friction blades into can and press trim to ceiling.

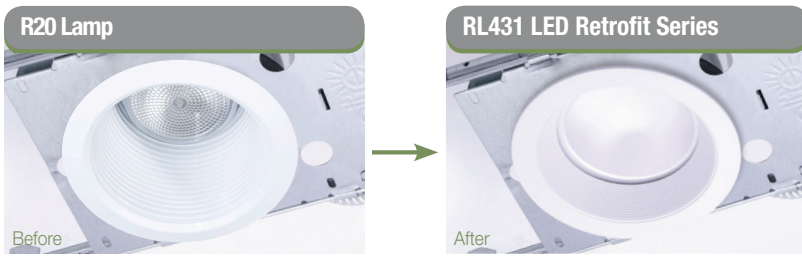
LED

4"

4 INCH LED RETROFIT MODULE

RL431

4" LED RETROFIT DIE-CAST ALUMINUM LENSED 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: **RL431-650L-DIMTR-120-30K-90-W-WH**

TYPE	650L SERIES	CCT	CRI	FINISH	OPTION	TRIM OPTIONS
RL431 (Baffle)	<input type="checkbox"/> 650L-DIMTR-120	<input type="checkbox"/> 27K <input type="checkbox"/> 30K <input type="checkbox"/> 35K <input type="checkbox"/> 40K <input type="checkbox"/> 50K (85 CRI only)	<input type="checkbox"/> 90 <input type="checkbox"/> 85	<input type="checkbox"/> W-WH	<input type="checkbox"/> GU24SA GU24 SOCKET ADAPTER	BT (Baffle Trim) <input type="checkbox"/> RL431-BT-BZ-BZ <input type="checkbox"/> RL431-BT-CP-CP <input type="checkbox"/> RL431-BT-P-BK <input type="checkbox"/> RL431-BT-P-WH <input type="checkbox"/> RL431-BT-SN-SN RT (Reflector Trim) <input type="checkbox"/> RL431-RT-BZ-BZ <input type="checkbox"/> RL431-RT-CL-WH <input type="checkbox"/> RL431-RT-CL-CH <input type="checkbox"/> RL431-RT-CP-CP <input type="checkbox"/> RL431-RT-MB-BK <input type="checkbox"/> RL431-RT-MB-WH <input type="checkbox"/> RL431-RT-RG-WH <input type="checkbox"/> RL431-RT-SHZ-SHZ <input type="checkbox"/> RL431-RT-SHZ-WH <input type="checkbox"/> RL431-RT-SN-SN <input type="checkbox"/> RL431-RT-SN-WH <input type="checkbox"/> RL431-RT-W-WH

AVAILABLE COLOR INSERTS FOR RL431 - 4" RETROFIT

BAFFLES



REFLECTORS



Ordering Guide for Compatible Housing

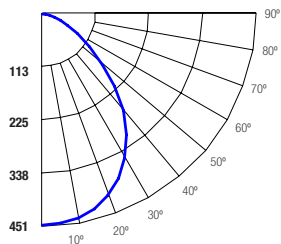
IC - New Construction	Non-IC New Construction	IC - For Remodel	Non-IC For Remodel
LD4IC-AT	LD4-AT	LD4RIC-AT	LD4R-AT
HLD4IC-AT	HLD4-AT		HLD4R-AT
B4IC-AT	B4-AT		B4R-AT

*RECOMMENDED DIMMERS FOR ELITE RL431 LED SYSTEM

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	Maestro MRF2-6ND NovaT NTELV-600 Diva DVELV-300P Skylark SELV-300P Nova NELV-450

RL431-650L-DIMTR-120-50K-80-W-WH	TEST NO.: EL111754				
INPUT WATTS: 10	LUMENS: 929	CRI: 85+	EFFICACY: 93	CCT: 5000K	SPACING CRITERIA: 1.24

Candle Power Distribution (Candelas)



Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-20	162.98	17.60	17.50
0-30	340.23	36.70	36.60
0-40	537.57	58.00	57.80
0-60	828.45	89.40	89.10
0-80	925.06	99.80	99.50
0-90	929.29	100.20	100.00

Luminance (Average candela/M²)

Angle in Degrees	Average		
	0°	45°	90°
45	38996	38032	38340
55	26785	25954	28076
65	17559	17913	19371
75	12873	13311	12980
85	7963	0	0

Lumens Per Zone

Zone	Lumens
0-10	42.35
10-20	120.63
20-30	177.24
30-40	197.34
40-50	172.64
50-60	118.24
60-70	65.98
70-80	30.63
80-90	4.23

Candela Tabulation

0		
0	450.88	
5	448.00	
15	430.48	
25	387.03	
35	315.96	
45	219.31	
55	122.19	
65	59.02	
75	26.50	
85	5.52	
90	0.30	

Coefficients of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance 0.20

ROOM CAVITY RATIO	RC				70%				50%				30%				10%				0%								
	RW	70%	50%	30%	70%	50%	30%	10%	70%	50%	30%	10%	70%	50%	30%	10%	70%	50%	30%	10%	70%	50%	30%	10%	70%	50%	30%	10%	
0																													
1	111	119	119	119	117	117	117	117	111	111	111	111	107	107	107	102	102	102	100	100	100	100	100	100	100	100	100	100	
2	102	95	90	85	100	94	88	84	90	86	82	78	87	83	80	84	81	78	76	76	76	76	76	76	76	76	76	76	
3	95	85	78	73	92	84	77	72	81	75	71	78	73	69	76	72	68	66	66	66	66	66	66	66	66	66	66	66	
4	87	77	69	63	85	75	68	63	73	67	62	71	65	61	69	64	60	58	58	58	58	58	58	58	58	58	58	58	
5	81	69	61	55	79	68	61	55	66	60	54	64	59	54	63	57	53	51	51	51	51	51	51	51	51	51	51	51	
6	75	63	55	49	73	62	55	49	60	54	49	59	53	48	57	52	48	46	46	46	46	46	46	46	46	46	46	46	
7	70	58	50	44	68	57	49	44	55	49	44	54	48	43	53	47	43	41	41	41	41	41	41	41	41	41	41	41	
8	66	53	45	40	64	52	45	40	51	44	39	50	44	39	49	43	39	37	37	37	37	37	37	37	37	37	37	37	
9	61	49	41	36	60	48	41	36	47	41	36	46	40	36	45	40	35	34	34	34	34	34	34	34	34	34	34	34	
10	58	45	38	33	57	45	38	33	44	37	33	43	37	33	42	37	32	31	31	31	31	31	31	31	31	31	31	31	

RC - Ceiling Cavity Reflectance

RW - Wall Reflectance