

RL428

4" LED RETROFIT DIE-CAST ALUMINUM LENSED REFLECTOR

SAME DAY
SHIPPING AVAILABLE



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
- UL/cUL Listed for Wet
- UL/cUL Listed for Damp Location

- California Title 24
- Washington state
- LM79/LM80

UNIQUELY ENGINEERED FOR NEW AND EXISTING CONSTRUCTION

The RL428 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 RL428 LED retrofit meet all new mandatory California Title 24 requirements.

The Elite RL428 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

LED

4"

4 INCH LED RETROFIT MODULE

RL428

4" LED RETROFIT DIE-CAST ALUMINUM LENSED REFLECTOR

R20 Lamp



Before

RL428 LED Retrofit Series



After

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: **RL428-650L-DIMTR-120-30K-90-W-WH**

TYPE	650L SERIES	CCT		CRI	FINISH	OPTION
RL428 (Reflector)	650L-DIMTR-120	27K	40K	90+	W-WH	GU24SA
		30K	50K	85+	MW-MWH	GU24 SOCKET
		35K	(85 CRI only)			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 RL428 LED SYSTEM

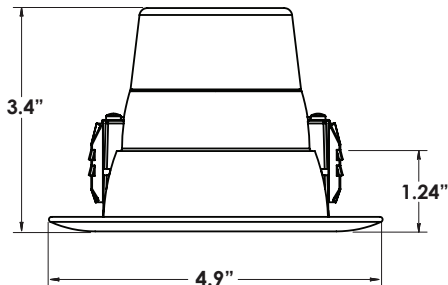
LUTRON DIMMERS (DIMTR)

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

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.
- 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.



RL428-650L-DIMTR-120-30K-90-W-WH

INPUT WATTS: 12.8

LUMENS: 782

CRI: 90

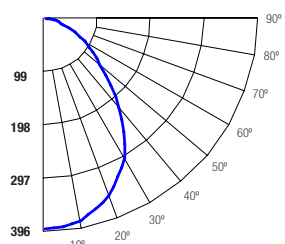
EFFICACY: 61

CCT: 3000K

TEST NO.: EL-071414

SPACING CRITERIA: 1.22

Candle Power Distribution (Candelas)



Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-20	141.90	N.A.	18.20
0-30	293.21	N.A.	37.50
0-40	457.92	N.A.	58.60
0-60	690.39	N.A.	88.30
0-80	773.21	N.A.	98.90
0-90	781.66	N.A.	100.00

Luminance (Average candela/M²)

Angle in Degrees	Average 0°	Average 45°	Average 90°
45	124877	129979	131652
55	96471	91836	85417
65	72002	65524	57423
75	52565	49013	46095
85	55814	50113	1368

Lumens Per Zone

Zone	Lumens
0-10	37.28
10-20	104.61
20-30	151.32
30-40	164.71
40-50	139.05
50-60	93.43
60-70	55.29
70-80	27.53
80-90	8.45

Candela Tabulation

0	1	2	3	4	5	6	7	8	9
0	395.82	392.96	370.30	328.12	260.30	177.71	111.36	61.24	27.38
10	9.79	0.99							

Coefficients of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance 0.20

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%	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	100	100
1	110	106	103	99	108	104	101	98	100	97	95	96	94	92	93	91	89	87	87	87	87	87	87	87
2	102	95	89	84	99	93	88	83	90	85	81	86	83	79	83	80	78	76	76	76	76	76	76	76
3	94	85	78	72	92	83	77	72	81	75	70	78	73	68	75	71	68	66	66	66	66	66	66	66
4	87	77	69	63	85	75	68	62	73	67	62	71	65	61	69	64	60	58	58	58	58	58	58	58
5	81	69	61	55	79	68	61	55	66	60	54	64	58	54	63	57	53	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
7	70	58	50	44	68	57	49	44	56	49	44	54	48	43	53	47	43	41	41	41	41	41	41	41
8	66	53	45	40	64	52	45	40	51	44	40	50	44	39	49	43	39	37	37	37	37	37	37	37
9	62	49	41	36	60	49	41	36	47	41	36	46	40	36	45	40	36	34	34	34	34	34	34	34
10	58	46	38	33	57	45	38	33	44	38	33	43	37	33	42	37	33	31	31	31	31	31	31	31

RC - Ceiling Cavity Reflectance

RW - Wall Reflectance