

RL403

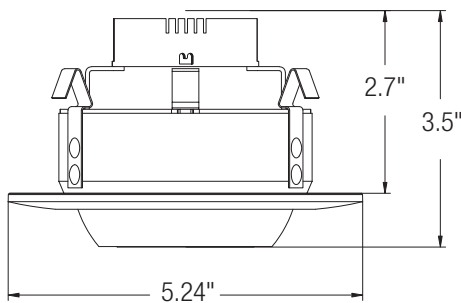
4" LED RETROFIT 38° BEAM ANGLE DOWNLIGHT



AVAILABLE BEAM ANGLE:

12° / 24° / 38°

DIMENSION



ENGINEERED FOR VERSATILITY AND PERFORMANCE

The Elite RL403 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 600 usable lumens are directed from the luminaire to the work surface. Lighting is smooth and comfortable, all while using 80% less energy than the equivalent 50W BR20 and 25% less than the common 13W CFL. Plus the Elite RL403 features 42,000hrs of life, and California Title-24 compliance.

INPUT VOLT.	INPUT FREQ.	THD	POWER FACTOR	INPUT POWER	LUMENS
120	60Hz	<20%	0.95	10W (+/-5%)	600

FEATURES

Greater light output than an 13W CFL or a 50W BR20 while consuming less than 10W of power. Fits in most 4 inch downlight housings.

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 600 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 reflector 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 RL403 light output will be maintained at 70% of initial at 42,000 hours of operation. Our LED driver is rated for 50 to 60 Hz 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 RL403 Module is engineered for quality. All Elite LED luminaires are rated at 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 RL403 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.

INTERCHANGEABLE

The Elite RL403 LED system works in our dedicated (LD4IC-AT, LD4RIC-AT) housings and our existing 4" incandescent housings (B4IC-AT, B4-AT, B4RIC-AT, B4R-AT) but is also suitable for use in most 4" recessed downlight housings.

ADAPTABLE

All Elite RL403 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)



CERTIFICATIONS

- cULus
- ENERGY STAR
- LM79 Report
- California Title 24

RL403

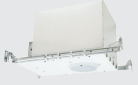
4" LED RETROFIT 38° BEAM ANGLE DOWNLIGHT

EXAMPLE: RL403-600L-DIMTR-120-30K-90-WH

TYPE	LUMEN	CCT	CRI	DISTRIBUTION	FINISH
RL403	☐ 600L-DIMTR-120	☐ 27K ☐ 30K	☐ 90	☐ NS - 12° / Narrow ☐ MD - 24° / Medium ☐ FL - 38° / Flood	☐ WH

INSTALLATION

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

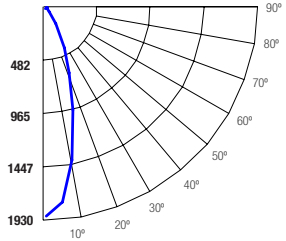
Ordering Guide for Compatible Housing			
			
IC - New Construction	Non-IC New Construction	IC - For Remodel	Non-IC For Remodel
LD4IC-AT	LD4-AT	LD4RIC-AT	LD4R-AT
HLD4IC-AT	HLD4-AT		HLD4R-AT
B4IC-AT	B4-AT		B4R-AT

RL403-600L-DIMTR-120-30K-90-FL-DBZ-DBZ

TEST NO.: EL111753

INPUT WATTS: 10 LUMENS: 759 CRI: 85+ EFFICACY: 76 CCT: 3000K SPACING CRITERIA: 0.58

Candle Power Distribution (Candelas)



Cone of Light		
4.0	121 fc	2.5 ft
8.0	30.2 fc	5.1 ft
12.0	13.4 fc	7.6 ft
16.0	7.54 fc	10.1 ft
20.0	4.82 fc	12.6 ft
24.0	3.35 fc	15.2 ft
Distance to Plane	Initial Footcandle at Nadir	Beam diameter

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

Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-20	447.05	60.00	58.90
0-30	663.24	89.00	87.40
0-40	739.70	99.20	97.50
0-60	757.15	101.60	99.80
0-80	758.88	101.80	100.00
0-90	758.95	101.80	100.00

Luminance (Average candela/M²)

Angle in Degrees	Average 0°	Average 45°	Average 90°
45	1015	2312	2770
55	476	614	1482
65	280	405	556
75	141	350	447
85	29	0	0

Lumens Per Zone

Zone	Lumens
0-10	155.01
10-20	292.04
20-30	216.19
30-40	76.47
40-50	14.56
50-60	2.88
60-70	1.22
70-80	0.51
80-90	0.07

Candela Tabulation

Q	
0	1929.64
5	1803.25
15	980.78
25	412.68
35	48.66
45	5.71
55	2.17
65	0.94
75	0.29
85	0.02
90	0.01

Coefficients of Utilization - Zonal Cavity Method
Effective Floor Cavity Reflectance 0.20

ROOM CAVITY RATIO	RC		80%				70%				50%				30%				10%				0%			
	RW		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	1	121	121	121	121	118	118	118	118	113	113	113	108	108	108	108	108	108	104	104	104	102	102	102	102
1	116	114	112	110	110	114	112	110	108	108	108	106	105	104	104	103	102	100	100	99	99	99	97	97	97	97
2	112	107	104	101	101	110	106	103	100	103	100	98	98	100	97	96	97	95	94	94	92	92	92	92	92	92
3	107	102	97	94	94	105	100	96	93	98	94	92	92	95	93	90	93	91	89	87	87	87	87	87	87	87
4	103	96	92	88	88	101	95	91	88	93	89	87	87	91	88	86	89	87	85	83	83	83	83	83	83	83
5	99	92	87	83	83	97	91	86	83	89	85	82	82	87	84	81	86	83	81	79	77	76	76	76	76	76
6	95	87	82	79	79	94	87	82	78	85	81	78	78	84	80	77	83	79	77	75	73	72	72	72	72	72
7	91	83	78	75	75	90	83	78	75	82	77	74	74	81	77	74	79	76	73	72	70	69	69	69	69	69
8	88	80	75	71	71	87	79	74	71	78	74	71	71	77	73	71	76	73	70	67	66	66	66	66	66	66
9	85	77	72	68	68	84	76	71	68	75	71	68	68	74	70	68	74	70	67	64	64	64	64	64	64	64
10	82	73	69	65	65	81	73	68	65	72	68	65	65	72	68	65	71	67	65	64	64	64	64	64	64	64

RC - Ceiling Cavity Reflectance

RW - Wall Reflectance

LED

4"

4 INCH LED RETROFIT 12°, 24°, 38° BEAM ANGLE