

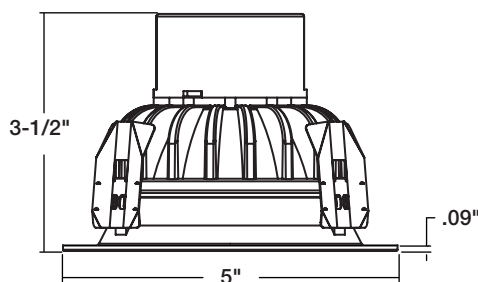
# RL411

4" LED RETROFIT DIE-CAST ALUMINUM LENSED STEPPED BAFFLE WALL WASH

**SAME DAY**  
SHIPPING AVAILABLE



## DIMENSION



## 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 downlights. 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 element

## CERTIFICATIONS

- RoHS
- IECC
- LM97/LM80
- California Title 24
- New York state
- Washington state
- Made in USA
- TUV Safety Tested

## UNIQUELY ENGINEERED FOR NEW AND EXISTING CONSTRUCTION

The Elite **RL411** has been engineered for new construction where Title-24's 'No Edison Socket' mandate has been initiated. A dedicated housing installs the same as any other Elite Lighting product and features our adjustable, lockable and tiltable nail bars. The **RL411** can also be installed into most 4" incandescent downlights by using our unique Edison adapter.

Over 900 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 13W CFL. Plus the Elite **RL411** features 50,000hrs of life, and California Title-24 compliance.

INPUT VOLT.	INPUT FREQ.	THD	POWER FACTOR	INPUT POWER	LUMENS
120 / 277 (LD4 Only)	50/60Hz	<20%	>0.9	10W (+/-5%)	650
120 / 277 (LD4 Only)	50/60Hz	<20%	>0.9	14W (+/-5%)	900

## FEATURES

Greater light output than a 13W CFL or a 50W BR20 while consuming less than 10W 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 900 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. Optic combinations available in Baffle, Reflector, and Wall Wash options to fit any lighting application.

## 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 **RL411** 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 Hz 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 luminaires are rated at 85+ and 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.

## DIMMABLE

The Elite **RL411** 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.

## INTERCHANGEABLE

The Elite **RL411** 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** 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.

## OUR WORD

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

LED

4"

4 INCH LED RETROFIT MODULE

# RL411

4" LED RETROFIT DIE-CAST ALUMINUM LENSED STEPPED BAFFLE WALL WASH

## R20 Lamp



Before

## RL411 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: **RL411-650L-DIMTR-120-30K-90-W-W-WH**

Lumens may vary based on the trim colors. See IES files for output lumens of each.

TYPE	650L SERIES	900L SERIES	CCT	CRI	FINISH	COVER	OPTION
RL411 (Baffle Wall Wash)	<input type="checkbox"/> 650L-DIMTR-120 <input type="checkbox"/> 650L-277 (Non Dimmable)	<input type="checkbox"/> 900L-DIMTR-120 <input type="checkbox"/> 900L-277 (Non Dimmable)	<input type="checkbox"/> 27K <input type="checkbox"/> 30K <input type="checkbox"/> 35K <input type="checkbox"/> 40K <input type="checkbox"/> 50K (CRI 85+ Only)	<input type="checkbox"/> 85+ <input type="checkbox"/> 90+	<input type="checkbox"/> W-WH <input type="checkbox"/> P-WH <input type="checkbox"/> SN-SN <input type="checkbox"/> CP-CP <input type="checkbox"/> BZ-BZ <input type="checkbox"/> P-BK	<input type="checkbox"/> WH <input type="checkbox"/> SN	<input type="checkbox"/> GU24SA GU24 SOCKET 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 -RL411

### 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 NTLV-600  
 Diva DVELV-300P  
 Skylark SELV-300P  
 Nova NELV-450

### LEVITON DIMMERS

#### DIMTR

ILLumaTech IPE04  
 Sureslide 6633  
 Acenti  
 Vizia+

**RL411-650L-DIMTR-120-85-40K-W-WH**

INPUT WATTS: **9.8**

LUMENS: **417**

CRI: **85+**

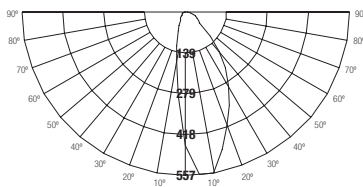
EFFICACY: **42.5**

CCT: **4000K**

TEST NO.: **EL-0913119**

SPACING CRITERIA: **1.04**

### Candle Power Distribution (Candelas)



### Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-20	124.05	30.00	29.80
0-30	218.21	52.70	52.40
0-40	301.30	72.80	72.30
0-60	382.80	92.50	91.90
0-80	412.71	99.70	99.10
0-90	416.66	100.70	100.00

### Luminance (Average candela/M<sup>2</sup>)

Angle in Degrees	Average 0°	Average 45°	Average 90°
45	21140	21967	13706
55	11649	10906	5533
65	10975	7833	5040
75	10532	9896	4498
85	10805	10170	260

### Lumens Per Zone

Zone	Lumens
0-10	38.83
10-20	85.23
20-30	94.16
30-40	83.09
40-50	54.51
50-60	26.98
60-70	18.26
70-80	11.66
80-90	3.94

### Candela Tabulation

Q	
0	454
5	557
15	485
25	352
35	234
45	118
55	53
65	36
75	21
85	7
90	0

### Coefficients of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance 0.20

	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%	0%
ROOM CAVITY RATIO	0	120	120	120	120	117	117	117	117	112	112	112	107	107	107	103	103	103	103	103	103	101
	1	112	109	106	103	110	107	104	101	102	100	98	99	97	95	94	94	92	91	90	90	88
	2	105	99	94	89	103	97	92	88	94	90	86	91	87	84	88	85	83	82	81	81	81
	3	98	90	84	79	96	89	83	78	86	81	77	83	79	76	81	78	75	73	73	73	73
	4	92	83	76	71	90	82	75	70	79	74	69	77	72	69	75	71	68	66	66	66	66
	5	87	76	69	64	85	75	69	64	73	68	63	72	67	63	70	66	62	60	60	60	60
	6	81	71	64	59	80	70	63	58	68	62	58	67	61	57	65	61	57	55	55	55	55
	7	77	66	59	54	75	65	58	54	64	58	53	62	57	53	61	56	53	51	51	51	51
	8	73	61	55	50	71	61	54	50	60	54	49	59	53	49	58	53	49	47	47	47	47
	9	69	58	51	46	68	57	51	46	56	50	46	55	50	46	54	49	46	44	44	44	44
	10	65	54	48	43	64	54	47	43	53	47	43	52	47	43	51	46	43	41	41	41	41

RC - Ceiling Cavity Reflectance

RW - Wall Reflectance

Cone of Light		
4.0	28.4	4.0'
8.0	7.1	8.0'
12.0	3.2	12.0'
16.0	1.8	16.0'
20.0	1.1	20.0'
Distance to Plane	Initial Footcandle at Nadir	Beam diameter
BEAM DIA. MEASURED AT 50% OF NADIR F.C.		



LED (Retrofit) Die-cast Aluminum Lensed Stepped Baffle Wall Wash with Trim Ring



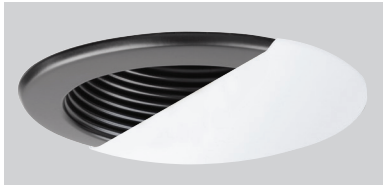
**W-W-WH**  
White-White-White



**SN-SN-WH**  
Satin Nickel-Satin Nickel -White



**P-W-WH**  
Black-White-White



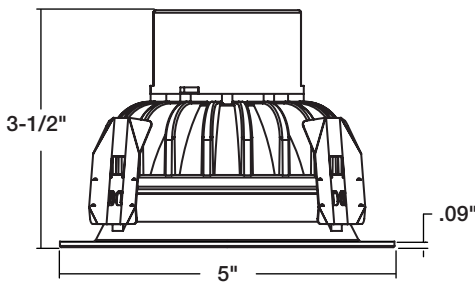
**P-BK-WH**  
Black-Black-White



**CP-CP-WH**  
Copper-Copper-White



**BZ-BZ-WH**  
Bronze-Bronze-White



LED  
4"

4 INCH LED RETROFIT MODULE

RL411- **A** - **B** - **C** - **D** - **E**

(A) LUMEN SERIES	(B) VOLTAGE/DRIVER	(C) CCT	(D) CRI	(E) FINISH
<input type="checkbox"/> 650L	<input type="checkbox"/> DIMTR-120 <input type="checkbox"/> 277 (non dimmable)	<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"/> 85+ <input type="checkbox"/> 90+	<input type="checkbox"/> W-W-WH <input type="checkbox"/> P-W-WH <input type="checkbox"/> SN-SN-WH <input type="checkbox"/> CP-CP-WH <input type="checkbox"/> BZ-BZ-WH <input type="checkbox"/> P-BK-WH
LED (Retrofit) Die-cast Aluminum Lensed Stepped Baffle Wall Wash				
See ordering chart for compatible housing on page 354, 355, 356 & 357				