

# RL631

## UNIVERSAL 6" LED RETROFIT BAFFLE LIGHTING MODULE



### CERTIFICATIONS

- cULus
- RoHS
- IECC

**CRI** 90+

**COLOR QUALITY** 3-Step MacAdam Ellipses

**LUMEN OUTPUT** 950, 1200 Lumens

**LUMEN PER WATT** Up to 64

**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 RL631 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 RL631 LED retrofits meet all new mandatory California Title 24 requirements.

The Elite RL631 LED Module has been engineered for new constructions to meet Title-24's "No Edison Socket" mandate. The Elite RL631 LED system works in our dedicated (LD6IC-AT and LD6RIC-AT) housings and our existing 6" Incandescent housings (B6IC-AT, EZ6IC-AT, B26IC-AT, B26RIC-AT, B6RIC-AT) but is also suitable for using in most 6" Incandescent recessed downlight housings in the market.

INPUT VOLT.	INPUT FREQ.	THD	POWER FACTOR	INPUT POWER	LUMENS
120	50/60Hz	<20%	>0.9	15W(+/-5%)	1200
120	50/60Hz	<20%	>0.9	14W(+/-5%)	950

### 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

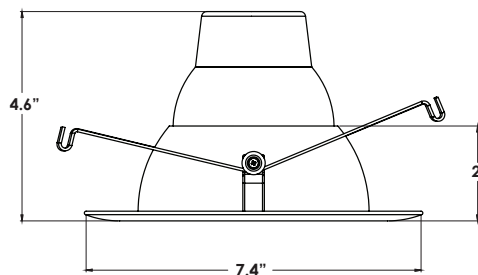
The Elite LED Module is dimmable down to 15% of initial light output with compatible dimmers. Consult factory for complete list of compatible dimming systems.

### OUR WORD

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

### FEATURES

- Over 1200 usable lumens are directed from the luminaire to the work surface
- Greater light output than a 26W CFL or a 65W BR30 while consuming less than 15W 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

Ez connector to use with special High efficacy housing or Edison base adapter for retrofitting into existing 5" or 6" incandescent housings. Utilizes industry standard V springs, installs in most 5" incandescent down lights. Insert V springs 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.

LED

6"

6 INCH LED RETROFIT MODULE

# RL631

## UNIVERSAL 6" LED RETROFIT BAFFLE LIGHTING MODULE



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: **RL635-950L-DIMTR-120-30K-90-W-WH**

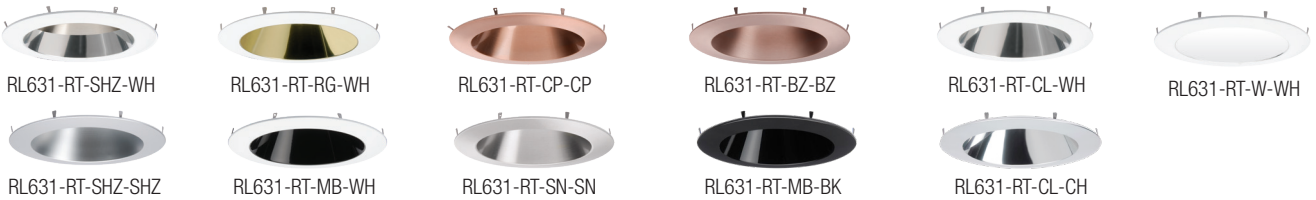
TYPE	LUMEN SERIES	CCT	CRI	FINISH	OPTION	TRIM OPTIONS		
RL631 (Baffle)	<input type="checkbox"/> 950L-DIMTR-120 <input type="checkbox"/> 1200L-DIMTR-120	<input type="checkbox"/> 27K <input type="checkbox"/> 30K <input type="checkbox"/> 35K <input type="checkbox"/> 40K <input type="checkbox"/> 50K (CRI 80+ Only)	<input type="checkbox"/> 90	<input type="checkbox"/> W-WH	<input type="checkbox"/> GU24SA GU24 SOCKET ADAPTER	<input type="checkbox"/> BT (Baffle Trim) <input type="checkbox"/> RL631-BT-BZ-BZ <input type="checkbox"/> RL631-BT-CP-CP <input type="checkbox"/> RL631-BT-P-BK <input type="checkbox"/> RL631-BT-P-WH <input type="checkbox"/> RL631-BT-SN-SN <input type="checkbox"/> RL631-BT-DBZ-DBZ	<input type="checkbox"/> RT (Reflector Trim) <input type="checkbox"/> RL631-RT-BZ-BZ <input type="checkbox"/> RL631-RT-CL-WH <input type="checkbox"/> RL631-RT-CP-CP <input type="checkbox"/> RL631-RT-MB-BK <input type="checkbox"/> RL631-RT-MB-WH <input type="checkbox"/> RL631-RT-DBZ-DBZ	<input type="checkbox"/> RL631-RT-W-WH <input type="checkbox"/> RL631-RT-RG-WH <input type="checkbox"/> RL631-RT-SHZ-SHZ <input type="checkbox"/> RL631-RT-SN-SN <input type="checkbox"/> RL631-RT-SN-WH

### AVAILABLE COLOR INSERTS FOR RL631 - 6" RETROFIT

#### BAFFLES



#### REFLECTORS



LED  
6"

#### Ordering Guide for Compatible Housing

IC - New Construction	Non-IC New Construction	IC - For Remodel	Non-IC For Remodel
LD6IC-AT	LD6-AT	LD6RIC-AT	LD6R-AT
HLD6IC-AT	HLD6-AT	HLD6RIC-AT	HLD6R-AT
B6IC-AT	B6-AT	B6RIC-AT	B6R-AT
B26IC-AT		B26RIC-AT	

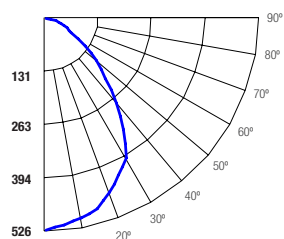
#### \*RECOMMENDED DIMMERS FOR ELITE RL631 LED SYSTEM

LUTRON DIMMERS		LUTRON CONTROL SYSTEM
INCANDESCENT		MAGNETIC LOW VOLTAGE
Diva DVCL-153P	Maestro MRF2-6ND	NovaNLV-600
Skylark CTCL-153P	NovaT NTELV-600	NovaT NTLV-600
Nova N-600	Diva DVELV-300P	Diva DVLV-600P
NovaT NT-600	Skylark SELV-300P	Leviton Dimmer 6613-PL
Skylark S-600	Nova NELV-450	
Ariadni AY-600P	Skylark S-1000	
Nova NTLV-600	Decora 06633-766	
Nova NLV-600	Decorra 6674	
	Toggle Dimmer TGI06-1LW	

#### RL631-950L-DIMTR-120-27K-90-W-WH

INPUT WATTS: **14.4** LUMENS: **1040** CRI: **85+** EFFICACY: **72** CCT: **2700K** TEST NO.: **EL110317**

#### Candle Power Distribution (Candelas)



#### Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-20	189.66	18.20	18.20
0-30	397.93	38.20	38.30
0-40	629.67	60.50	60.50
0-60	941.17	90.50	90.50
0-80	1036.48	99.60	99.60
0-90	1040.23	100.00	100.00

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

Angle in Degrees	Average		
	0°	45°	90°
45	16285	17406	20823
55	11327	10376	12839
65	7354	7364	8280
75	5212	5851	6824
85	0	0	5241

#### Lumens Per Zone

Zone	Lumens
0-10	49.29
10-20	140.37
20-30	208.27
30-40	231.75
40-50	191.66
50-60	119.84
60-70	64.10
70-80	31.21
80-90	3.75

#### Candela Tabulation

0	5	15	25	35	45	55	65	75	85	90
525.84	514.12	490.18	430.84	337.53	210.25	118.62	56.75	24.63	0.00	0.00

#### Coefficients of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance 0.20

ROOM CAVITY RATIO	RC RW	80%				50%				30%				10%				0%			
		70%	50%	30%	10%	70%	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		
1		111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88		
2		103	96	90	85	100	94	89	84	91	86	82	87	84	81	84	82	79	77		
3		95	86	79	74	93	84	78	73	82	76	72	79	74	70	77	73	69	67		
4		88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59		
5		82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53		
6		76	64	56	50	74	63	56	50	61	55	50	60	54	49	58	53	49	47		
7		71	59	51	45	69	58	50	45	56	50	45	55	49	44	54	48	44	42		
8		66	54	46	41	65	53	46	41	52	45	41	51	45	40	50	44	40	38		
9		62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35		
10		58	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32		

RC - Ceiling Cavity Reflectance

RW - Wall Reflectance