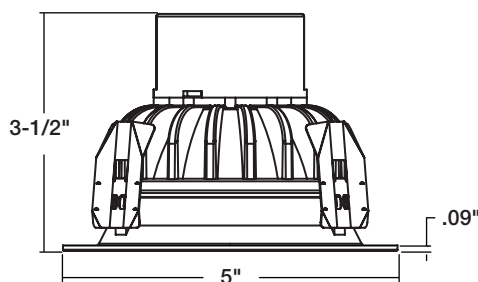


RL407

4" LED RETROFIT DIE-CAST ALUMINUM LENSED REFLECTOR



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 elements.



CERTIFICATIONS

- RoHS
- IECC
- New York state
- Made in USA
- California Title 24
- UL/cUL listed for wet location
- Washington state
- LM79/LM80

UNIQUELY ENGINEERED FOR NEW AND EXISTING CONSTRUCTION

The Elite RL407 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 **RL407** 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 **RL407** 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	9W (+/-5%)	650
120 / 277 (LD4 Only)	50/60Hz	<20%	>0.9	11W (+/-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 reflector 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 **RL407** 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 **RL407** 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 **RL407** 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 **RL407** 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

RL407

4" LED RETROFIT DIE-CAST ALUMINUM LENSED REFLECTOR

R20 Lamp



Before

RL407 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: **RL407-650L-DIMTR-120-30K-90-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	OPTION
RL407 (Reflector)	<input type="checkbox"/> 650L-DIMTR-120 <input type="checkbox"/> 650-DIM10-MVOLT <input type="checkbox"/> 650L-277 (Non Dimmable)	<input type="checkbox"/> 900L-DIMTR-120 <input type="checkbox"/> 900L-DIM10-MVOLT <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"/> CL-WH <input type="checkbox"/> W-WH <input type="checkbox"/> BZ-BZ <input type="checkbox"/> SN-SN <input type="checkbox"/> RG-WH <input type="checkbox"/> CL-BK <input type="checkbox"/> CL-SN <input type="checkbox"/> MB-WH <input type="checkbox"/> CL-CH <input type="checkbox"/> CP-CP <input type="checkbox"/> MB-BK <input type="checkbox"/> SN-WH <input type="checkbox"/> SHZ-WH	<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 -RL407

LUTRON DIMMERS		LEVITON DIMMERS
DIMTR		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	IllumaTech IPE04 Sureslide 6633 Acenti Vizia+

LED

4"

4 INCH LED RETROFIT MODULE

RL407-650L-DIMTR-120-27K-90-W-WH

INPUT WATTS: 9.2312

LUMENS: 825

CRI: 90

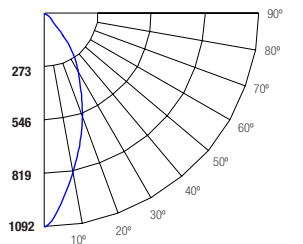
EFFICACY: 89

CCT: 2700K

TEST NO.: ELB092019100

SPACING CRITERIA: 0.78

Candle Power Distribution (Candelas)



Cone of Light			
2	272	1.6	1.6
4	67.9	3.3	3.3
6	30.2	4.9	4.9
8	17	6.5	6.5
10	10.9	8.1	8.1
12	7.54	9.8	9.8
(FT.) Distance to Plane	(FC.) Initial Footcandle at Nadir	(FT.) Beam Vert. Spread	(FT.) Beam Horiz. Spread

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

Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-20	291.07	35.30	35.30
0-30	508.46	61.60	61.60
0-40	687.08	83.20	83.20
0-60	804.17	97.40	97.40
0-80	824.66	99.90	99.90
0-90	824.68	99.90	99.90

Luminance Data (cd/sq.m)

Angle In Degrees	Average 0°	Average 45°	Average 90°
45°	35053	37566	47015
55°	22242	22774	24385
65°	11445	12449	14830
75°	701	1481	3134
85°	79	39	39

Lumens Per Zone

Zone	Lumens
0-10	90.68
10-20	200.40
20-30	217.38
30-40	178.62
40-50	81.14
50-60	35.95
60-70	17.70
70-80	2.79
80-90	0.02

Candela Tabulation

Q	
0	1086.29
5	973.57
15	698.52
25	451.88
35	271.11
45	72.41
55	37.27
65	14.13
75	0.53
85	0.02
90	0.02

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	102	100
	1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	93	91	88	85
	2	107	101	97	93	104	100	96	92	96	93	90	93	91	88	91	88	86	85	84	83	82
	3	101	94	88	84	99	92	87	83	90	85	82	87	84	81	85	82	79	78	77	76	75
	4	95	87	81	76	93	86	80	76	84	79	75	81	77	74	80	76	73	72	71	70	69
	5	90	81	75	70	88	80	74	70	78	73	69	76	72	68	75	71	68	66	65	64	63
	6	85	75	69	64	83	75	69	64	73	68	64	72	67	63	70	66	63	61	60	59	58
	7	80	71	64	60	79	70	64	59	69	63	59	67	62	59	66	62	58	55	53	52	51
	8	76	66	60	55	75	66	60	55	64	59	55	63	58	55	62	58	55	53	52	51	50
	9	73	62	56	52	71	62	56	52	61	55	52	60	55	51	59	54	51	48	45	43	42
10	69	59	53	49	68	58	52	49	58	52	48	57	52	48	56	51	48	45	42	40	39	

RC - Ceiling Cavity Reflectance

RW - Wall Reflectance

RL407-900L-DIMTR-120-27K-90-W-WH

INPUT WATTS: 11.2722

LUMENS: 998

CRI: 90

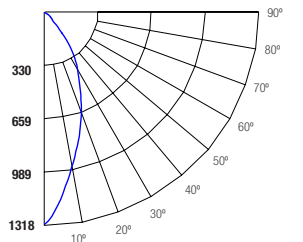
EFFICACY: 89

CCT: 2700K

TEST NO.: ELB09201998

SPACING CRITERIA: 0.78

Candle Power Distribution (Candelas)



Cone of Light			
2	327	1.6	1.6
4	81.7	3.3	3.3
6	36.3	4.9	4.9
8	20.4	6.5	6.5
10	13.1	8.1	8.1
12	9.08	9.8	9.8
(FT.) Distance to Plane	(FC.) Initial Footcandle at Nadir	(FT.) Beam Vert. Spread	(FT.) Beam Horiz. Spread

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

Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-20	350.74	35.10	35.10
0-30	613.59	61.50	61.50
0-40	829.32	83.10	83.10
0-60	972.19	97.40	97.40
0-80	997.33	99.90	99.90
0-90	997.35	99.90	99.90

Luminance Data (cd/sq.m)

Angle In Degrees	Average 0°	Average 45°	Average 90°
45°	40102	43167	56678
55°	27035	27631	29398
65°	13802	14944	18143
75°	899	1772	3968
85°	79	79	79

Lumens Per Zone

Zone	Lumens
0-10	109.15
10-20	241.58
20-30	262.85
30-40	215.73
40-50	99.21
50-60	43.66
60-70	21.64
70-80	3.50
80-90	0.02

Candela Tabulation

Q	
0	1307.88
5	1156.52
15	820.10
25	533.53
35	321.80
45	82.84
55	45.30
65	17.04
75	0.68
85	0.02
90	0.02

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	102	100
	1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92	90	88	86
	2	107	101	97	93	104	100	96	92	96	93	90	93	91	88	91	88	86	86	86	86	85
	3	101	94	88	84	99	92	87	83	90	85	82	87	84	81	85	82	79	78	78	78	78
	4	95	87	81	76	93	86	80	76	83	79	75	81	77	74	79	76	73	71	71	71	71
	5	90	81	74	70	88	80	74	69	78	73	69	76	72	68	75	71	68	66	66	66	66
	6	85	75	69	64	83	75	68	64	73	68	64	71	67	63	70	66	63	63	63	63	61
	7	80	70	64	60	79	70	64	59	68	63	59	67	62	58	65	62	58	58	58	58	57
	8	76	66	60	55	75	66	59	55	64	59	55	63	58	55	62	58	55	55	55	55	54
	9	72	62	56	52	71	62	56	52	61	55	51	60	55	51	59	54	51	51	51	51	50
10	69	59	53	49	68	58	52	48	57	52	48	57	52	48	56	51	48	48	48	48	47	

RC - Ceiling Cavity Reflectance

RW - Wall Reflectance

RL407

4" LED RETROFIT DIE-CAST ALUMINUM LENSED REFLECTOR

RL407- (A) - (B) - (C) - (D) -CL-WH



Photometric Multiplier 1.0

CL-WH

Chrome- White

RL407- (A) - (B) - (C) - (D) -SN-SN

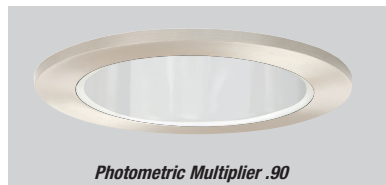


Photometric Multiplier .87

SN-SN

Satin Nickel- Satin Nickel

RL407- (A) - (B) - (C) - (D) -CL-SN

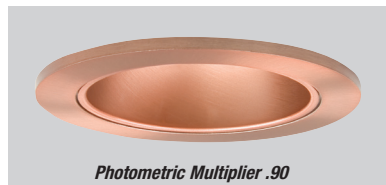


Photometric Multiplier .90

CL-SN

Clear-Satin Nickel

RL407- (A) - (B) - (C) - (D) -CP-CP



Photometric Multiplier .90

CP-CP

Copper-Copper

RL407- (A) - (B) - (C) - (D) -SN-WH



Photometric Multiplier .87

SN-WH

Satin Nickel-White

RL407- (A) - (B) - (C) - (D) -W-WH



Photometric Multiplier .95

W-WH

White-White

RL407- (A) - (B) - (C) - (D) -RG-WH



Photometric Multiplier .90

RG-WH

Gold- White

RL407- (A) - (B) - (C) - (D) -MB-WH



Photometric Multiplier .77

MB-WH

Black-White

RL407- (A) - (B) - (C) - (D) -RG-PB



Photometric Multiplier .90

RG-PB

Gold-Polish Brass

RL407- (A) - (B) - (C) - (D) -SHZ-WH



Photometric Multiplier .87

SHZ-WH

Satin Haze-White

RL407- (A) - (B) - (C) - (D) -BZ-BZ



Photometric Multiplier .87

BZ-BZ

Bronze-Bronze

RL407- (A) - (B) - (C) - (D) -CL-BK



Photometric Multiplier 1.0

CL-BK

Chrome- Black

RL407- (A) - (B) - (C) - (D) -CL-CH



Photometric Multiplier 1.0

CL-CH

Clear-Chrome

RL407- (A) - (B) - (C) - (D) -MB-BK



Photometric Multiplier .77

MB-BK

Black-Black



(A) LUMEN SERIES	(B) VOLTAGE/DRIVER	(C) CCT	(D) CRI
<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+
LED (Retrofit) Die-cast Aluminum Lensed Reflector			
See ordering chart for compatible housing on page 354, 355, 356 & 357			

LED
4"

4 INCH LED RETROFIT MODULE