

RL465

4" LED ADJUSTABLE RETROFIT 24°, 38°, 60° BEAM ANGLE

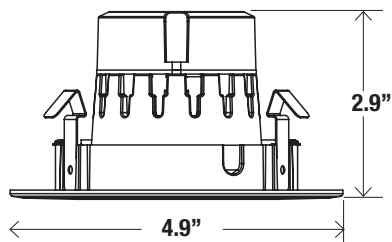


AVAILABLE BEAM ANGLE:

24° / 38° / 60°

NEW
ADJUSTABLE
DESIGN

DIMENSIONS



INSTALLATION

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



CERTIFICATIONS

- ENERGY STAR
- LM79 Report

ENGINEERED FOR VERSATILITY AND PERFORMANCE

The Elite RL465 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. The module can be adjusted up to 38° vertically and rotates up to 35°.

Over 650 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 RL465 features 50,000hrs of life, and California Title-24 compliance.

INPUT VOLT.	INPUT FREQ.	POWER FACTOR	INPUT POWER	LUMENS
120	60Hz	>0.9	10W(+/-5%)	650L

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. **Adjusts up to 38 degrees vertically.**

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 650 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 RL465 light output will be maintained at 70% of initial at 50,000 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 RL465 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 RL465 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. Refer to dimming matrix for more information.

INTERCHANGEABLE

The Elite RL465 LED system works in our dedicated (LD4IC-AT, LD4RIC-AT) housings and our existing 4" incandescent housings (B4IC-AT, B4-AT and B4R-AT) but is also suitable for use in most 4" recessed downlight housings.

ADAPTABLE

All Elite RL465 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)

LED

4"

4 INCH LED ADJUSTABLE RETROFIT 24°, 38°, 60° BEAM ANGLE

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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

EXAMPLE: **RL465-650L-DIMTR-120-30K-90-MD-WH**

TYPE	LUMEN	CCT	CRI	BEAM	TRIM
RL465	650L-DIMTR-120	27K 30K 40K	90+	NS - 24° / Narrow MD - 38° / Medium FL - 60° / Flood	WH (White) SN (Satin Nickel)

DIMMERS

DIMMER	BRAND
DVCL-153P	Lutron
SCL-153P	Lutron
DVCL-253P	Lutron
NTCL-250	Lutron
RH703PTUW	Legrand
MRF2S-6ELV120-WH	Lutron
DSE06-10Z	Leviton
DVELV-303-P-WH	Lutron
MAELV-600-WH	Lutron
VPE06-1LZ	Leviton

RL465-650L-DIMTR-120-30K-90-MD-SN

INPUT WATTS: 10

LUMENS: 872

CRI: 85+

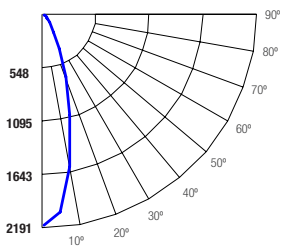
EFFICACY: 87

CCT: 3000K

TEST NO.: EL111747

SPACING CRITERIA: 0.56

Candle Power Distribution (Candelas)



Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-20	485.50	56.70	55.70
0-30	703.45	82.20	80.70
0-40	790.72	92.40	90.70
0-60	850.78	99.40	97.60
0-80	870.45	101.70	99.90
0-90	871.67	101.80	100.00

Luminance (Average candela/M²)

Angle in Degrees	Average 0°	Average 45°	Average 90°
45	7653	9182	9899
55	4689	5485	6732
65	2386	3820	4629
75	4319	4163	4955
85	1558	0	0

Lumens Per Zone

Zone	Lumens
0-10	172.84
10-20	312.66
20-30	217.95
30-40	87.27
40-50	38.47
50-60	21.59
60-70	11.60
70-80	8.07
80-90	1.22

Candela Tabulation

0	0
0	2190.66
5	2061.74
15	1082.64
25	389.07
35	97.92
45	43.04
55	21.39
65	8.02
75	8.89
85	1.08
90	0.07

Coefficients of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance 0.20

RC	RW	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%	0%	0%	0%	0%
ROOM CAVITY RATIO	0	121	121	121	121	118	118	118	118	113	113	113	108	108	108	104	104	104	104	104	104	102	102	102	102
	1	116	113	111	108	113	111	109	107	107	105	103	103	102	100	100	98	98	98	98	98	96	96	96	96
	2	111	106	102	99	108	104	101	98	101	98	95	98	95	93	95	93	91	91	91	91	90	90	90	90
	3	106	99	95	91	104	98	94	90	95	92	89	93	90	87	91	88	86	86	86	85	85	85	85	85
	4	101	94	89	85	99	93	88	84	91	87	83	89	85	82	87	84	81	81	81	80	80	80	80	80
	5	97	89	83	79	95	88	83	79	86	82	78	85	81	78	83	80	77	76	76	76	76	76	76	76
	6	93	84	79	75	91	84	79	75	82	78	74	81	77	74	80	76	73	72	72	72	72	72	72	72
	7	89	80	75	71	88	80	75	71	79	74	71	77	73	70	76	73	70	68	68	68	68	68	68	68
	8	85	77	71	68	84	76	71	67	75	70	67	74	70	67	73	69	67	65	65	65	65	65	65	65
	9	82	73	68	64	81	73	68	64	72	67	64	71	67	64	70	67	64	63	63	63	63	63	63	63
	10	79	70	65	62	78	70	65	62	69	65	61	68	64	61	68	64	61	60	60	60	60	60	60	60

RC - Ceiling Cavity Reflectance

RW - Wall Reflectance

Cone of Light		
2.0	523 fc	1.1 ft
4.0	131 fc	2.3 ft
6.0	58.2 fc	3.4 ft
8.0	32.7 fc	4.5 ft
10.0	20.9 fc	5.7 ft
12.0	14.5 fc	6.8 ft
Distance to Plane	Initial Footcandle at Nadir	Beam diameter

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

LED

4"

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