R E T

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Z

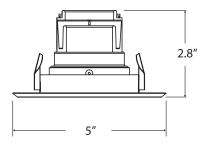
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LED





### INSTALLATION

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

• Utilizes industry standard friction blades, installs in most 4" incandescent down lights. Insert friction blades into can and press trim to ceiling.









### **CERTIFICATIONS**

- ETL Listed
- RoHS
- IECC
- New York state
- California Title 24
- Washington state
- LM79/LM80

# ENGINEERED FOR VERSATILITY AND PERFORMANCE

The Elite RL481 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 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 18W CFL. Plus the Elite RL481 features 50,000hrs of life, and California Title-24 compliance.

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

### FEATURES

Greater light output than an 18W 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 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.

### 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 RL481 light output will be maintained at 70% of initial at 50,000 hours of operation. Our LED driver is rated for 50 to 60 Htz 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 RL481 Module is engineered for quality. All Elite LED luminaries are rated at 85+ and 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 RL481 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 RL481 LED system works in our dedicated (LD4IC-AT, LD4RIC-AT) housings and our existing 4" incandescent housings (B4IC-AT, B4RIC-AT) but is also suitable for use in most 4" recessed downlight housings.

## **ADAPTABLE**

All Elite RL481 luminaries are shipped standard with our custom engineered Edison adapter. This adapter assembly allows the luminaries 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)



Example: RL481-650L-DIMTR-120-30K-90-WH											
TYPE	650L SERIES	CCT	CRI	FINISH		OPTION					
RL481 (SQUARE ADJUSTABLE)	□ 650L-DIMTR-120	□ 27K □ 30K □ 40K	□ 90+	□ W-WH □ SN-SN	☐ BK-BK ☐ BZ-BZ	GU24SA- GU24 SOCKET ADAPTER					

Ordering Guide for Compatible Housing										
n.L.										
IC - New Construction	N 10 N 0 4 4	10 F D	Non IO For Domodal							
ic - New Construction	Non-IC New Construction	IC - For Remodel	Non-IC For Remodel							
LD4IC-AT	LD4-AT	LD4RIC-AT	LD4R-AT							

RL481-650L-DIMTR-120-27K-90-W-WH TEST NO.: <b>EL</b>								
INPUT WATTS: 9.8	LUMENS: 669	CRI: <b>90</b>	EFFICACY: <b>68</b>	CCT: <b>2700K</b>	SPACING CRITERIA: 0.68			

# 275 549 824 1000

Zonal Lumens Summary										
Zone	Lumens	%Lamp	%Fixt							
0-20	297.26	44.20	44.40							
0-30	469.16	69.70	70.10							
0-40	566.64	84.20	84.70							
0-60	651.34	96.80	97.40							
0-80	668.22	99.30	99.90							
0-90	668.98	99.40	100.00							

Degrees   V	Lumina	nce (Aver	age cando	ela/M²)	Lumens Pe	er Zone	Candela	Tabulation
45 12340 12799 14956 20-30 171.90 15 813.44 55 7205 5140 6427 30-40 97.48 25 406.95 65 3457 3284 3180 40-50 57.75 35 158.96 75 2745 2813 2886 50-60 26.95 45 69.46 85 0 0 2683 60-70 11.16 55 32.87 70-80 5.72 65 11.62 80-90 0.76 85 0.00	in	•		•	0-10	91.80	-	<b>0</b> 1062.25 995.46
	55 65 75 85	7205 3457 2745	5140 3284 2813	6427 3180 2886	20-30 30-40 40-50 50-60 60-70 70-80	171.90 97.48 57.75 26.95 11.16 5.72	25 35 45 55 65	813.45 406.98 158.96 69.40 32.87 11.62 5.65 0.00

Cone of Light									
4.0	66.4 fc	3.1 ft							
8.0	16.6 fc	6.3 ft							
12.0	7.38 fc	9.4 ft							
16.0	4.15 fc	12.6 ft							
20.0	2.66 fc	15.7 ft							
24.0	1.84 fc	18.8 ft							
Distance to	Initial Footcandle	Beam							

t t ft ft

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

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%	0%
ROOM CAVITY RATIO	0 1 2 3 4 5 6 7 8 9	118 113 107 101 96 91 87 83 79 75 72	118 110 102 95 88 83 78 73 69 66 62	118 107 98 90 83 77 72 67 63 60 57	118 105 94 85 78 73 67 63 59 56	116 110 105 99 94 90 85 81 78 74	116 108 100 93 87 82 77 73 69 65 62	116 105 96 89 82 76 71 67 63 60 57	116 103 93 85 78 72 67 63 59 56 53	110 104 97 91 85 80 76 71 68 64 61	110 102 94 87 81 75 71 66 63 59	110 100 91 83 77 72 67 63 59 56 53	106 100 94 88 83 78 74 70 67 63 60	106 98 91 85 79 74 70 66 62 59	106 97 89 82 76 71 66 62 59 55	101 96 91 86 81 77 73 69 66 63 60	101 95 89 83 78 73 69 65 62 58	101 94 87 81 75 70 66 62 58 55 52	99 92 85 79 74 69 64 61 57 54

RC - Ceiling Cavity Reflectance

RW - Wall Reflectance