

FEATURES

The Elite RL470 has been engineered for New Construction, Remodel and Retrofit applications for 4 inch downlights as well as applications in standard junctionboxes. Dedicated housings install the same way as our standard incandescent downlights and include features such as adjustable, lockable and tilting bar hangers. 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 RL470 features 50,000 hours of life, and California Title-24 compliance.

LUMENS	650
CCT	27K, 30K, 40K
CRI	90+
COLOR QUALITY	3-Step MacAdam Ellipse
DIMMING	DIMTR (Triac), DIM10 (0-10V)
FINISH	WH (White), BK (Black), DBZ (Dark Bronze), SN (Satin Nickel)
LIFETIME	50,000 Hours

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 RL470 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 20% THD, has a power factor between 0.90 and 1.00 and is thermal protected for additional safety. For installations requiring a 277V driver please consult the factory.

NOMINAL LUMENS	DELIVERED LUMENS	WATTAGE
650	821	10W

Based on 5000K, 90+ CRI. Actual wattage may vary +/- 5%

EXAMPLE: RL470-650L-DIMTR-120-30K-90-W-WH

TYPE	LUMEN	CCT	CRI	FINISH	OPTIONS
RL470	<input type="checkbox"/> 650L-DIM10-MVOLT <input type="checkbox"/> 650L-DIMTR-120	<input type="checkbox"/> 27K <input type="checkbox"/> 30K <input type="checkbox"/> 40K	<input type="checkbox"/> 90+	<input type="checkbox"/> WH <input type="checkbox"/> BK <input type="checkbox"/> DBZ <input type="checkbox"/> SN	<input type="checkbox"/> GU24SA GU24 SOCKET ADAPTER



REPEATABLE

Repeatability means quality. From our chip selection process, to our driver, to the thermal management, the Elite RL470 Module is engineered for quality. All Elite LED luminaires are rated at 85+ or 90+ CRI, 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 RL470 lighting system is dimmable down to 10% by using an approved dimmer. Refer to dimming matrix for more information

INTERCHANGEABLE

The Elite RL470 LED system fits in most junction boxes, our dedicated (LD4IC-AT, LD4RIC-AT) housings and our existing 4" Incandescent housings.

ADAPTABLE

All Elite RL470 luminaires are shipped standard with our custom engineered Edison adapter. This adapter assembly allows the luminaires to install directly into existing Elite 4" incandescent downlight housings and most other 4" incandescent downlight housings. GU24 style socket base adapters also available upon request.

WARRANTY

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

AVAILABLE COLOR INSERTS FOR RL470 - 4" RETROFIT



RL470-RT-BZ



RL470-RT-DBZ



RL470-RT-SN



RL470-RT-BK

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 RL470 LED SYSTEM

LUTRON DIMMERS

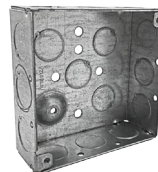
DIMTR

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 NTELV-600
Diva DVELV-300P
Skylark SELV-300P
Nova NELV-450

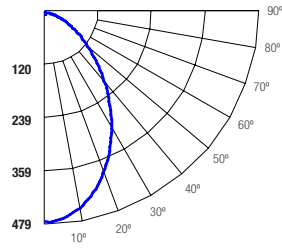

3 3/4" Round
(Plastic)

3 3/4" Square
(Plastic)

3 3/4" Octagonal
(Metal)

4" Square
(Metal)
with Mud Ring


Fire Rated J-Box

Note: A 2-1/8" deep octagon junction box is recommended for through circuit wiring applications.

RL470-650L-DIMTR-120-40K-90-WH
TEST NO.: EL08131968
INPUT WATTS: 10.1063
LUMENS: 821
CRI: 90
EFFICACY: 81
CCT: 5000K
SPACING CRITERIA: 1.10
Candle Power Distribution (Candelas)

Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-20	165.60	20.20	20.20
0-30	329.63	40.20	40.20
0-40	497.23	60.60	60.60
0-60	736.08	89.70	89.70
0-80	817.85	99.60	99.60
0-90	819.64	99.90	99.90

Luminance (Average candela/M²)

Angle in Degrees	Average 0°	Average 45°	Average 90°
45	2920	2971	3128
55	2136	2201	2353
65	1467	1538	1686
75	941	1014	1151
85	6	4	4

Lumens Per Zone

Zone	Lumens
0-10	44.64
10-20	120.96
20-30	164.03
30-40	167.60
40-50	140.26
50-60	98.59
60-70	57.02
70-80	24.74
80-90	1.79

Candela Tabulation

0	0
0	477.48
5	470.25
15	424.00
25	347.49
35	257.17
45	171.37
55	101.70
65	51.46
75	20.21
85	0.04
90	0.04

Coefficients of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance 0.20

Cone of Light			
2	119	3.2	3.1
4	29.8	6.3	6.3
6	13.3	9.5	9.4
8	7.46	12.6	12.6
10	4.77	15.8	15.7
12	3.32	19	18.9

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

	RC	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%	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	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	83	87	84	81	84	82	79	77						
	3	95	86	79	74	93	85	78	73	82	76	72	79	74	71	77	73	69	67						
	4	88	78	70	64	86	76	69	64	74	68	63	72	67	62	70	65	61	60						
	5	82	71	63	57	80	70	62	57	67	61	56	66	60	55	64	59	55	53						
	6	76	64	57	51	74	64	56	51	62	55	50	60	54	50	59	53	49	48						
	7	71	59	51	46	70	58	51	46	57	50	45	56	50	45	54	49	45	43						
	8	67	55	47	42	65	54	47	41	53	46	41	51	45	41	50	45	41	39						
	9	63	50	43	38	61	50	43	38	49	42	38	48	42	38	47	41	37	36						
	10	59	47	40	35	58	46	40	35	46	39	35	45	39	35	44	38	34	33						

RC - Ceiling Cavity Reflectance

RW - Wall Reflectance