

**FEATURES**

The Elite RL477 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 600 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 RL477 features 50,000 hours of life, and California Title-24 compliance.

|               |   |
|---------------|---|
| LUMENS        | 600   |
| CCT           | 27K, 30K, 40K                                     |
| CRI           | 90+   |
| COLOR QUALITY | 3-Step MacAdam Ellipse                            |
| FINISH        | WH (White), BN( Brush Nickel), SN ( Satin Nickel) |
| DIMMING       | DIMTR   |
| 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 RL477 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 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. For installations requiring a 277V driver please consult the factory.

| NOMINAL LUMENS | DELIVERED LUMENS | WATTAGE |
|----------------|------------------|---------|
| 600            | 476              | 10W     |

Based on 2700K, 90+ CRI. Actual wattage may vary +/- 5%

**INSTALLATION**

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.

EXAMPLE: **RL477-DIMTR-600L-120-30K-90-WH**

| TYPE  | LUMEN                                   | CCT  | CRI                          | FINISH  | OPTIONS  |
|-------|---|--|------------------------------|---|--|
| RL477 | <input type="checkbox"/> 600L-DIMTR-120 | <input type="checkbox"/> 27K<br><input type="checkbox"/> 30K<br><input type="checkbox"/> 40K | <input type="checkbox"/> 90+ | <input type="checkbox"/> WH<br><input type="checkbox"/> SN<br><input type="checkbox"/> BN | <input type="checkbox"/> GU24SA<br>GU24 SOCKET ADAPTER |



**REPEATABLE**

Repeatability means quality. From our chip selection process, to our driver, to the thermal management, the Elite RL477 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 RL477 lighting system is dimmable down to 10% by using an approved dimmer. Refer to dimming matrix for more information

**INTERCHANGEABLE**

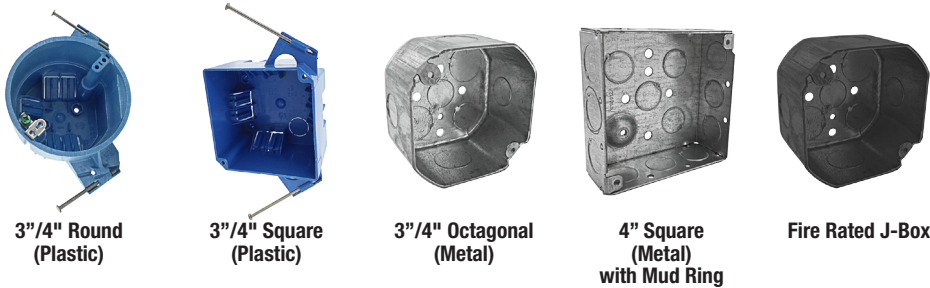
The Elite RL477 LED system fits in most junction boxes, our dedicated (LD4IC-AT, LD4RIC-AT) housings and our existing 4" Incandescent housings.

**ADAPTABLE**

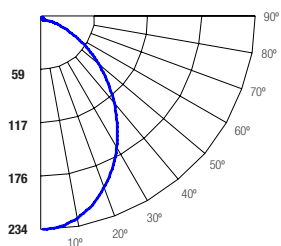
All Elite RL477 luminaires are shipped standard with our custom engineered Edison adapter. This adapter assembly allows the luminaires to install directly into existing Elite 4" incandescent downlight housings and most other 4" incandescent downlight housings. GU24 style socket base adapters also available upon request.

**OUR WORD**

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



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

**RL477-600L-DIMTR-120-27K-90-W-WH**
**TEST NO.: EL07301934**
**INPUT WATTS: 10.0354**
**LUMENS: 476**
**CRI: 90**
**EFFICACY: 47**
**CCT: 2700K**
**SPACING CRITERIA: 1.20**
**Candle Power Distribution (Candelas)**

**Zonal Lumens Summary**

| Zone | Lumens | %Lamp | %Fixt |
|------|--------|-------|-------|
| 0-20 | 82.65  | 17.40 | 17.40 |
| 0-30 | 168.43 | 35.40 | 35.40 |
| 0-40 | 261.77 | 55.00 | 55.00 |
| 0-60 | 409.68 | 86.10 | 86.10 |
| 0-80 | 465.12 | 97.80 | 97.80 |
| 0-90 | 466.31 | 98.00 | 98.00 |

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

| Angle in Degrees | Average |     |     |
|------------------|---------|-----|-----|
|                  | 0°      | 45° | 90° |
| 45               | 694     | 692 | 707 |
| 55               | 546     | 547 | 566 |
| 65               | 391     | 397 | 419 |
| 75               | 247     | 260 | 287 |
| 85               | 2       | 2   | 2   |

**Lumens Per Zone**

| Zone  | Lumens |
|-------|--------|
| 0-10  | 21.96  |
| 10-20 | 60.69  |
| 20-30 | 85.78  |
| 30-40 | 93.35  |
| 40-50 | 84.38  |
| 50-60 | 63.53  |
| 60-70 | 38.39  |
| 70-80 | 17.05  |
| 80-90 | 1.19   |

**Candela Tabulation**

| 0  | Q      |
|----|--------|
| 0  | 234.14 |
| 5  | 231.59 |
| 15 | 214.38 |
| 25 | 184.33 |
| 35 | 146.64 |
| 45 | 106.29 |
| 55 | 67.82  |
| 65 | 35.83  |
| 75 | 13.87  |
| 85 | 0.04   |
| 90 | 0.07   |

**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   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 110 | 110 | 110 | 105 | 105 | 105 | 100 | 100 | 100 | 98 |
|                   | 1   | 110 | 106 | 103 | 99  | 107 | 104 | 100 | 97  | 99  | 96  | 94  | 95  | 93  | 91  | 91  | 89  | 88  | 86 |
|                   | 2   | 101 | 94  | 88  | 83  | 99  | 92  | 87  | 82  | 89  | 84  | 80  | 85  | 81  | 78  | 82  | 79  | 76  | 74 |
|                   | 3   | 93  | 84  | 77  | 71  | 91  | 82  | 76  | 70  | 79  | 74  | 69  | 76  | 72  | 68  | 74  | 70  | 66  | 64 |
|                   | 4   | 86  | 76  | 68  | 62  | 84  | 74  | 67  | 61  | 71  | 65  | 60  | 69  | 64  | 59  | 67  | 62  | 58  | 56 |
|                   | 5   | 80  | 68  | 60  | 54  | 78  | 67  | 59  | 54  | 65  | 58  | 53  | 63  | 57  | 52  | 61  | 56  | 52  | 49 |
|                   | 6   | 74  | 62  | 54  | 48  | 72  | 61  | 53  | 48  | 59  | 52  | 47  | 57  | 51  | 47  | 56  | 50  | 46  | 44 |
|                   | 7   | 69  | 57  | 49  | 43  | 67  | 56  | 48  | 43  | 54  | 47  | 42  | 53  | 46  | 42  | 51  | 46  | 41  | 40 |
|                   | 8   | 65  | 52  | 44  | 39  | 63  | 51  | 44  | 38  | 50  | 43  | 38  | 48  | 42  | 38  | 47  | 42  | 37  | 36 |
|                   | 9   | 61  | 48  | 40  | 35  | 59  | 47  | 40  | 35  | 46  | 39  | 35  | 45  | 39  | 34  | 44  | 38  | 34  | 32 |
|                   | 10  | 57  | 44  | 37  | 32  | 56  | 44  | 37  | 32  | 43  | 36  | 32  | 42  | 36  | 32  | 41  | 35  | 31  | 30 |

| Cone of Light |      |      |      |
|---------------|------|------|------|
| 2             | 58.5 | 3.7  | 3.7  |
| 4             | 14.6 | 7.5  | 7.5  |
| 6             | 6.5  | 11.2 | 11.2 |
| 8             | 3.66 | 15   | 15   |
| 10            | 2.34 | 18.7 | 18.7 |
| 12            | 1.63 | 22.5 | 22.5 |

(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.

RC - Ceiling Cavity Reflectance

RW - Wall Reflectance