

FEATURES

The Elite RL870 has been engineered for standard junction boxes. Over 2000 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 Incandescent. Plus the Elite RL870 features 50,000 hours of life, and California Title-24 compliance.

| | |
|----------------------|--------------------------------------|
| APERTURE | 8" |
| LUMENS | 2000 |
| CCT | 30K, 40K |
| CRI | 90+ |
| COLOR QUALITY | 3-Step MacAdam Ellipse |
| FINISH | White |
| DIMMING | DIMTR (Triac), DIM10 (0-10V Dimming) |
| LIFETIME | 50,000 Hours |

- Aluminum housing
- 50,000 hours of operation
- Meets the California Title-24 compliance standards
- Produce zero ultraviolet and virtually no infrared light
- Dimmable
- Fits in 4" junction boxes
- Five-year warranty for parts and components. (Labor not included)
- Wet location rated.

| NOMINAL LUMENS | DELIVERED LUMENS | WATTAGE |
|----------------|------------------|---------|
| 2000 | 2063 | 27W |

Based on 4000K, 90+ CRI. Actual wattage may vary +/- 5%

EXAMPLE: **RL870-2000L-DIMTR-120-30K-90-W-WH**

| TYPE | LUMEN | CCT | CRI | FINISH | OPTIONS |
|-------|--|--|------------------------------|-------------------------------------|--|
| RL870 | <input type="checkbox"/> 2000L-DIMTR-120 <input type="checkbox"/> 2000L-DIM10-120* <input type="checkbox"/> 2000L-DIM10-277* | <input type="checkbox"/> 30K <input type="checkbox"/> 40K | <input type="checkbox"/> 90+ | <input type="checkbox"/> WH (White) | <input type="checkbox"/> GU24SA GU24 SOCKET ADAPTER |

For 2000L-DIM10-120* and 2000L-DIM10-277* minimum order is 480



COMPATIBLE JUNCTION BOXES



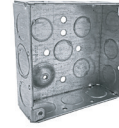
3.5" Round (Plastic)



4" Square (Plastic)



4" Octagonal (Metal)



4" Square (Metal)



Fire Rated J-Box

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

RECOMMENDED DIMMERS FOR ELITE RL870 LED SYSTEM

| LUTRON DIMMERS (DIMTR) | |
|------------------------|-------------------|
| Diva DVCL-153P | Maestro MRF2-6ND |
| Skylark CTCL-153P | NovaT NTELV-600 |
| Nova N-600 | Diva DVELV-300P |
| NovaT NT-600 | Skylark SELV-300P |
| Skylark S-600 | Nova NELV-450 |
| Ariadni AY-600P | |
| Nova NTLV-600 | |
| Nova NLV-600 | |

INSTALLATION

- Custom designed bracket included for mounting in standard size junction box.

PHOTOMETRIC

RL870-2000L-DIMTR-120-40K-90-WH

TEST NO.: EL082319136

INPUT WATTS: 27

LUMENS: 2063

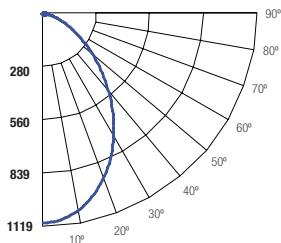
CRI: 90

EFFICACY: 76

CCT: 4000K

SPACING CRITERIA: 1.16

Candle Power Distribution (Candelas)



Zonal Lumens Summary

| Zone | Lumens | %Lamp | %Fixt |
|------|---------|-------|-------|
| 0-20 | 392.33 | 19.00 | 19.00 |
| 0-30 | 792.51 | 38.40 | 38.40 |
| 0-40 | 1214.59 | 58.90 | 58.90 |
| 0-60 | 1838.96 | 89.10 | 89.10 |
| 0-80 | 2050.2 | 99.40 | 99.40 |
| 0-90 | 2056.77 | 99.70 | 99.70 |

Luminance (Average candela/M²)

| Angle in Degrees | Average | | |
|------------------|---------|-------|--------|
| | 0° | 45° | 90° |
| 45 | 97475 | 98688 | 101937 |
| 55 | 72644 | 74779 | 78742 |
| 65 | 48778 | 51802 | 56251 |
| 75 | 28379 | 31859 | 36373 |
| 85 | 105 | 157 | 105 |

Lumens Per Zone

| Zone | Lumens |
|-------|--------|
| 0-10 | 104.71 |
| 10-20 | 287.62 |
| 20-30 | 400.19 |
| 30-40 | 422.08 |
| 40-50 | 363.80 |
| 50-60 | 260.57 |
| 60-70 | 149.32 |
| 70-80 | 61.92 |
| 80-90 | 6.58 |

Candela Tabulation

| Zone | Lumens | Candela | Tabulation |
|------|--------|---------|------------|
| 0 | | 0 | 1118.51 |
| 5 | | 5 | 1105.06 |
| 15 | | 15 | 1015.89 |
| 25 | | 25 | 858.32 |
| 35 | | 35 | 658.73 |
| 45 | | 45 | 453.05 |
| 55 | | 55 | 273.88 |
| 65 | | 65 | 135.50 |
| 75 | | 75 | 48.28 |
| 85 | | 85 | 0.06 |
| 90 | | 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% | 50% | 30% | 10% | 0% | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 102 | 100 | 100 | 100 | 100 | | |
| 1 | 111 | 107 | 103 | 100 | 108 | 105 | 101 | 99 | 100 | 98 | 95 | 97 | 94 | 93 | 93 | 91 | 90 | 88 | 86 | 86 | 86 | 86 | | |
| 2 | 102 | 95 | 90 | 85 | 100 | 94 | 88 | 84 | 90 | 86 | 82 | 87 | 83 | 80 | 84 | 81 | 78 | 76 | 76 | 76 | 76 | 76 | | |
| 3 | 95 | 86 | 79 | 73 | 92 | 84 | 78 | 72 | 81 | 76 | 71 | 78 | 74 | 70 | 76 | 72 | 69 | 67 | 67 | 67 | 67 | 67 | | |
| 4 | 88 | 77 | 69 | 64 | 85 | 76 | 69 | 63 | 73 | 67 | 62 | 71 | 66 | 61 | 69 | 64 | 61 | 59 | 59 | 59 | 59 | 59 | | |
| 5 | 81 | 70 | 62 | 56 | 79 | 69 | 61 | 56 | 67 | 60 | 55 | 65 | 59 | 55 | 63 | 58 | 54 | 52 | 52 | 52 | 52 | 52 | | |
| 6 | 76 | 64 | 56 | 50 | 74 | 63 | 55 | 50 | 61 | 54 | 49 | 59 | 53 | 49 | 58 | 53 | 48 | 46 | 46 | 46 | 46 | 46 | | |
| 7 | 71 | 58 | 50 | 45 | 69 | 57 | 50 | 45 | 56 | 49 | 44 | 55 | 49 | 44 | 53 | 48 | 44 | 42 | 42 | 42 | 42 | 42 | | |
| 8 | 66 | 54 | 46 | 41 | 65 | 53 | 46 | 40 | 52 | 45 | 40 | 50 | 44 | 40 | 49 | 44 | 40 | 38 | 38 | 38 | 38 | 38 | | |
| 9 | 62 | 50 | 42 | 37 | 61 | 49 | 42 | 37 | 48 | 41 | 37 | 47 | 41 | 36 | 46 | 40 | 36 | 35 | 35 | 35 | 35 | 35 | | |
| 10 | 58 | 46 | 39 | 34 | 57 | 46 | 39 | 34 | 45 | 38 | 34 | 44 | 38 | 34 | 43 | 37 | 33 | 32 | 32 | 32 | 32 | 32 | | |

Cone of Light

| Beam Dia. | Beam Dia. at 50% of Nadir F.C. | Beam Dia. at 50% of Nadir F.C. |
|-----------|--------------------------------|--------------------------------|
| 2 | 280 | 3.4 |
| 4 | 69.9 | 6.9 |
| 6 | 31.1 | 10.3 |
| 8 | 17.5 | 13.8 |
| 10 | 11.2 | 17.2 |
| 12 | 7.77 | 20.6 |

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

RC - Ceiling Cavity Reflectance

RW - Wall Reflectance