

UR Series - 4ft

LED Upgrade Kit

Product Description

The UR Series 4ft LED upgrade kit delivers 4500 lumens of enhanced spectrum 80 CRI light while achieving over 100 lumens per watt at the system level. This innovative kit is designed for retrofitting existing 1'x4' or 2'x4' fixtures to energy saving LED. The UR Series is available in neutral or cool color temperatures and step dimming comes standard. The UR Series upgrade retrofit kit is easy to install and fits into almost any existing linear fluorescent fixture making it a perfect upgrade option where energy savings and long life are critical.

Performance Summary

| |
|---|
| Upgrade Existing 1'x4' & 2'x4' fixtures |
| Full Definition Color Quality |
| Efficacy: 102 LPW at source level |
| System Delivered Light Output: 4500 lumens |
| Fixture Delivered Light Output: 4000 lumens* |
| Input Power: 44 watts |
| CRI: >80 |
| CCT: 3500K, 4000K |
| Input Voltage: 120-277 VAC |
| Warranty: 7 years |
| Lifetime: Designed to last 50,000 hours |
| Controls: Step Level to 50% |
| Mounting: Existing Recessed |

UR2-48™ Includes

| |
|---------------------------------|
| (6) Mounting Clips |
| (8) Self-Tapping Screws |
| (1) Driver Screw |
| (2) 4' LED Lightbars |
| (1) LED Driver |
| (1) Installation Instructions |
| (1) UL1598C Certification Label |

UR3-48™ Includes

| |
|---------------------------------|
| (9) Mounting Clips |
| (12) Self-Tapping Screws |
| (1) Driver Screw |
| (3) 4' LED Lightbars |
| (1) LED Driver |
| (1) Installation Instructions |
| (1) UL1598C Certification Label |

UR2-48™



4' LED Lightbar
MOL- 44 inches

Ordering Information

Example: UR2-48-45L-35K-S-FD

| Product | Lumen Output | Color Temp | Voltage | Control | Options |
|--------------------|---------------------------------------|--|-------------------------------------|--------------------------|---------------------------------|
| UR2-48™ UR3-48™ | 45L 44W 4500 lumens - 102 LPW | 35K 3500 Kelvin 40K 4000 Kelvin | Blank 120-277 Volt (Standard) | S Step Dimming to 50% | FD Full Definition (>80 CRI) |

* Varies by Fixture

UR Series

Product Specifications

FULL DEFINITION COLOR

An enhanced spectrum color quality that delivers > 80 CRI.

LUMEN MAINTENANCE FACTORS

- Reference www.cree.com/lighting for detailed lumen maintenance factors.

CONSTRUCTION & MATERIALS

- Lightweight aluminum heat sink housing provides strength and durability.
- Durable plastic mounting clips with integrated magnets allow for simple snap on design to fixture.

OPTICAL SYSTEM

- Specialized lens design for optimal light distribution and smooth visual effect.
- Measured and designed to achieve optimal light performance in existing fluorescent troffers.

ELECTRICAL SYSTEM

- Integral, high-efficiency driver and power supply.
- Power Factor** = 0.9 nominal
- Input Power:** Stays constant over life.
- Input Voltage:** 120V-277V, 50/60Hz
- Temperature Rating:** Designed to operate in temperatures 0-35° C
- Total Harmonic Distortion:** < 20%

CONTROLS

- Step dimming to 50% comes standard.*

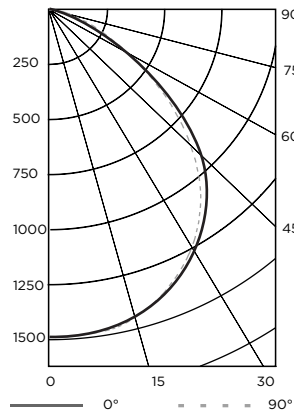
REGULATORY & VOLUNTARY QUALIFICATIONS

- UL1598C (Retrofit Kit).
- This product is UL Classified for U.S. and Canada for use in existing linear fluorescent fixtures.
- Suitable for damp locations.
- Designed for Indoor use.

*Reference www.cree.com/lighting for recommended dimming controls and wiring diagrams.

Photometry

UR2-48-4500L PHOTOMETRY BASED ON TEST REPORT#: CESTL-2013-0080



Average Luminance Table (cd/m²)

| Vertical Angle | Horizontal Angle | | |
|----------------|------------------|-------|-------|
| | 0° | 45° | 90° |
| 0° | 1645 | 1645 | 1645 |
| 45° | 941 | 1,020 | 1,138 |
| 55° | 595 | 685 | 746 |
| 65° | 349 | 349 | 380 |
| 75° | 191 | 155 | 226 |
| 85° | 68 | 68 | 85 |

Coefficients Of Utilization

| RCC %: | 80 | | | |
|--------|-----|-----|-----|-----|
| RW %: | 70 | 50 | 30 | 10 |
| RCR: 0 | 119 | 119 | 119 | 119 |
| 1 | 110 | 105 | 101 | 98 |
| 2 | 100 | 93 | 86 | 81 |
| 3 | 92 | 82 | 74 | 68 |
| 4 | 85 | 73 | 65 | 59 |
| 5 | 78 | 66 | 57 | 51 |
| 6 | 72 | 60 | 51 | 45 |
| 7 | 67 | 54 | 46 | 40 |
| 8 | 63 | 50 | 41 | 36 |
| 9 | 59 | 46 | 38 | 32 |
| 10 | 55 | 42 | 34 | 29 |

Effective Floor Cavity Reflectance: 20%

Zonal Lumen Summary

| Zone | Lumens | Luminaire |
|-------|--------|-----------|
| 0-30 | 1,286 | 31.2% |
| 0-40 | 2,095 | 50.9% |
| 0-60 | 3,488 | 84.7% |
| 0-90 | 4,118 | 100% |
| 0-180 | 4,118 | 100% |

Reference www.cree.com/lighting for detailed photometric data.