

UR Series - 2ft

2' LED Upgrade Kit

Product Description

The UR Series 2ft (610mm) LED upgrade kit delivers 3600 lumens of enhanced spectrum 80 CRI light while achieving 100 lumens per watt at the system level. This innovative kit is designed for retrofitting existing 1'x2' (305mm x 610mm) or 2'x2' (610mm x 610mm) fixtures to energy saving LED. The UR Series is available in neutral or cool color temperatures and with step dimming or 0-10V dimming. The UR Series upgrade 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.

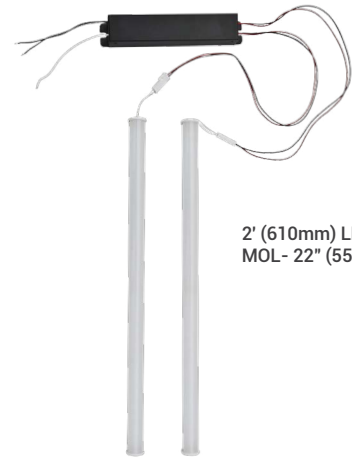
Performance Summary

Upgrade Existing 1'x2' (305mm x 610mm) or 2'x2' (610mm x 610mm) fixtures
Efficacy: 100 LPW at source level
System Delivered Light Output: 3600 lumens
Target Luminaire Delivered Light Output: 3200 lumens*
Input Power: 36 watts
CRI: 80
CCT: 3500K, 4000K
Input Voltage: 120-277 VAC or 347 VAC
Limited Warranty†: 7 years
Lifetime: Designed to last 50,000 hours
Controls: Step Level to 50% or 0-10V Dimming to 5%
Mounting: Existing linear fluorescent fixtures

Accessories

Field-Installed		
Emergency Backup UR-EB5W - 5W	Two Lightbar Drivers UR2-24-36L-S-FD-DR - 120-277V, Step Dimming to 50% UR2-24-36L-10V-FD-DR - 120-277V, 0-10V Dimming to 5% UR2-24-36L-34-10V-FD-DR - 347V, 0-10V Dimming to 5%	Three Lightbar Drivers UR3-24-36L-S-FD-DR - 120-277V, Step Dimming to 50% UR3-24-36L-10V-FD-DR - 120-277V, 0-10V Dimming to 5% UR3-24-36L-34-10V-FD-DR - 347V, 0-10V Dimming to 5%

UR2-24™ LED Upgrade Kit:	UR3-24™ LED Upgrade Kit:
(4) Mounting Clips	(6) Mounting Clips
(8) Self-Tapping Screws	(12) Self-Tapping Screws
(1) Driver Screw	(1) Driver Screw
(2) 2' (610mm) LED Lightbars	(3) 2' (610mm) LED Lightbars
(1) LED Driver	(1) LED Driver
(1) Installation Instructions	(1) Installation Instructions
(1) Relamping Label	(1) Relamping Label



2' (610mm) LED Lightbar
MOL- 22" (559mm)

Ordering Information

Example: UR2-24-36L-35K-S-FD



For full list of Cree Quick Ship products visit www.cree.com/lighting/quickship

Product	36L	Color Temp	Voltage	Control	FD
UR2-24 UR3-24	36L 36W, 3600 lumens - 100 LPW	35K 3500 Kelvin 40K 4000 Kelvin	Blank 120-277 Volt (Standard) 34 347 Volt (Optional) - Available with 10V control option only	S Step Dimming to 50% 10V 0-10V Dimming to 5%	FD 80 CRI Blank 1 Kit (Single Pack) 6 Six Kits (UR2-24™ LED Multi Pack) 4 Four Kits (UR3-24™ LED Multi Pack)

* Varies by luminaire

† See www.cree.com/lighting/products/warranty for warranty terms



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US: www.cree.com/lighting

T (800) 236-6800 F (262) 504-5415

Canada: www.cree.com/canada

T (800) 473-1234 F (800) 890-7507

Product Specifications

CREE LED TECHNOLOGY

Cree's total systems approach to product development is a comprehensive engineering philosophy that combines the most advanced LED sources, driver technologies, optics and forms. The result is highly-reliable luminaire solutions for both indoor and outdoor applications that reduce energy use, extend lifetimes, and maximize illumination performance and quality.

CONSTRUCTION & MATERIAL

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

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:** 120-277V, 347V, 50/60Hz
- **Temperature Rating:** Designed to operate in temperatures 0-35°C
- **Total Harmonic Distortion:** < 20%

CONTROLS

- Step dimming to 50%*
- Continuous dimming to 5% with 0-10V DC control protocol*

REGULATORY & VOLUNTARY QUALIFICATIONS

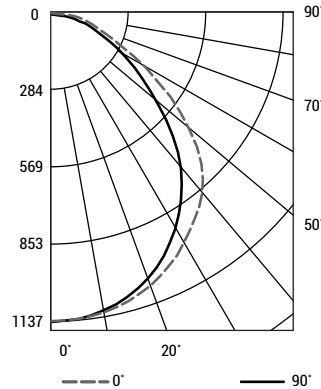
- Product qualified on the DesignLights Consortium ("DLC") Qualified Products List ("QPL")
- UL1598C (Retrofit Kit)
- This product is UL Classified for U.S. and Canada for use in existing linear fluorescent fixtures
- Suitable for damp locations
- Designed for Indoor use

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

Photometry

UR2-24-36L-35K-FD INSTALLED IN A 2X2 RECESSED TROFFER BASED ON CSA REPORT TEST #: 2638466-02

Fixture photometry has been conducted by a NVLAP accredited testing laboratory in accordance with IESNA LM-79-08. IESNA LM-79-08 specifies the entire luminaire as the source resulting in a fixture efficiency of 100%.



Average Luminance Table (cd/m2)

		Horizontal Angle		
		0°	45°	90°
Vertical Angle	45°	3899	3470	3152
	55°	3288	2936	2503
	65°	2397	2118	2006
	75°	2110	1563	1731
	85°	2318	2027	1899
	90°			

Coefficients Of Utilization - Zonal Cavity Method

RC %:	80			
RW %:	70	50	30	10
RCR: 0	119	119	119	119
1	109	105	101	97
2	100	92	86	80
3	92	82	74	68
4	84	73	65	58
5	78	65	57	50
6	72	59	51	44
7	67	54	45	39
8	62	49	41	35
9	58	45	37	32
10	55	42	34	29

Effective Floor Cavity Reflectance: 20%

Zonal Lumen Summary

Zone	Lumens	% Lamp	Luminaire
0-30	880.4	N/A	30.8%
0-40	1431.1	N/A	50.0%
0-60	2398.9	N/A	83.8%
0-90	2860.1	N/A	100%
0-180	2861.0	N/A	100%

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

