

# UR Series

UR2-24™ and UR3-24™ LED Upgrade Kit – 2'

## 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 upgrading 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 Fixture 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 dry or damp rated linear fluorescent fixtures including troffers, parabolics, strips, wraps, volumetric/baskets and industrials; not intended for use in vaportights

## Accessories

Field-Installed
Emergency Backup UR-EB5W - 5W

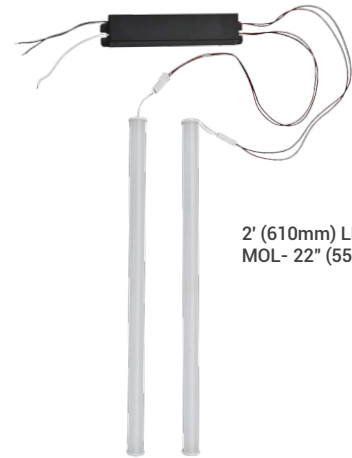
## Ordering Information

Fully assembled kit is composed of two components that must be ordered separately.  
Example: Lightbar: UR 24 35K FD LB 2 + Driver: UR2 24 36L 10V FD DR

Lightbar (Driver must be ordered separately)					
UR	24		FD	LB	
Series	Length	CCT	Options	Lightbar	Number of Lightbars
UR	24	35K 3500 Kelvin 40K 4000 Kelvin	FD 80 CRI	LB Lightbar	2 2 Lightbar Kit 3 3 Lightbar Kit 6 6 Lightbar Bulk Pack

Driver (Lightbar must be ordered separately)						
	24	36L			FD	DR
Product	Length	Lumen Output	Voltage	Control	Options	Driver
UR2 2 Lightbar UR3 3 Lightbar	24	36L 36W, 3600 lumens - 100 LPW	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	DR Driver

\* Varies by fixture  
† See [www.cree.com/lighting/products/warranty](http://www.cree.com/lighting/products/warranty) for warranty terms



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

The UR Series upgrade kit ships as two components: lightbars and driver. Each component must be ordered separately.



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## 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 indoor 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 polycarbonate 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
- **Operating Temperature Range:** 0°C - +35°C (32°F - +95°F)
- **Total Harmonic Distortion:** < 20%
- **Source Current:** 0.25mA

### CONTROLS

- Step dimming to 50%. Reference [www.cree.com/Lighting/Products/Indoor/Upgrade-Solutions/UR-Series](http://www.cree.com/Lighting/Products/Indoor/Upgrade-Solutions/UR-Series)
- Continuous dimming to 5% with 0-10V DC control protocol. Reference [www.cree.com/Lighting/Products/Indoor/Upgrade-Solutions/UR-Series](http://www.cree.com/Lighting/Products/Indoor/Upgrade-Solutions/UR-Series)

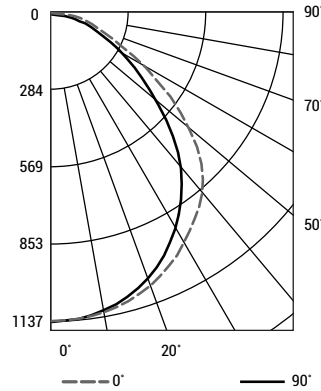
### REGULATORY & VOLUNTARY QUALIFICATIONS

- DLC qualified. Please refer to [www.designlights.org/QPL](http://www.designlights.org/QPL) for most current information
- 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
- Meets FCC Part 15 standards for conducted and radiated emissions

## 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%.



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%

Average Luminance Table (cd/m <sup>2</sup> )				
Horizontal Angle				
		0°	45°	90°
Vertical Angle	45°	3,899	3,470	3,152
	55°	3,288	2,936	2,503
	65°	2,397	2,118	2,006
	75°	2,110	1,563	1,731
	85°	2,318	2,027	1,899

Zonal Lumen Summary			
Zone	Lumens	% Lamp	Luminaire
0-30	880	N/A	30.8%
0-40	1,431	N/A	50.0%
0-60	2,399	N/A	83.8%
0-90	2,860	N/A	100%
0-180	2,861	N/A	100%

Reference [www.cree.com/Lighting/Products/Indoor/Upgrade-Solutions/UR-Series](http://www.cree.com/Lighting/Products/Indoor/Upgrade-Solutions/UR-Series) for detailed photometric data

