

# UR Series

2', 4' LED Upgrade Kit

Rev. Date: V8 02/26/2025

## Product Description

The UR Series LED upgrade kit provides up to 8,400 Lumens of 80 CRI light while achieving up to 135 lumens per watt at the system level. This innovative kit is designed for retrofitting existing 1' x 2' (305mm x 610mm), 2' x 2' (610mm x 610mm), 1' x 4' (305mm x 1219mm) & 2' x 4' (610mm x 1219mm) fixtures to energy saving LED technology. The UR series is available in multiple color temperatures and offers 0-10V smooth dimming. The UR series upgrade 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 important.

## Performance Summary

Upgrade Existing 1' x 2' (305mm x 610mm), 2' x 2' (610mm x 610mm), 1' x 4' (305mm x 1219mm) & 2' x 4' (610mm x 1219mm) fixtures

**Efficacy:** Up to 135 LPW at system level

**System Delivered Light Output:** 2,600 Lumens - 8,400 Lumens

**Target Fixture Delivered Light Output\*:** 2,360 Lumens - 6,875 Lumens

**Input Power:** 21 watts - 62 watts

**CRI:** 80

**CCT:** 3000K, 3500K, 4000K

**Input Voltage:** 120-277 VAC

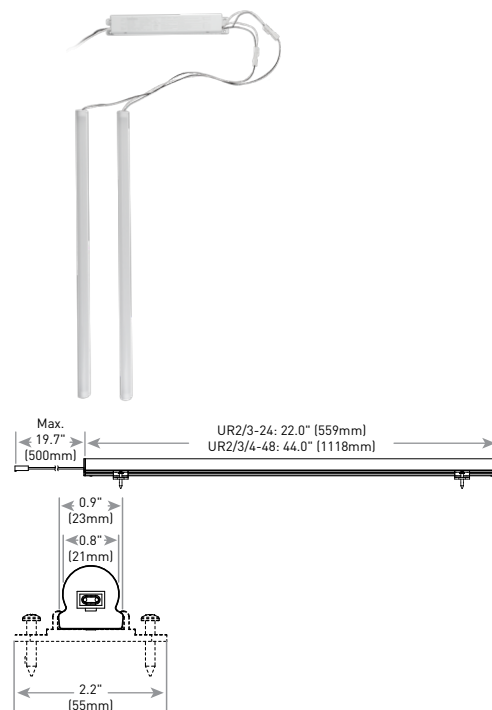
**Limited Warranty\*:** 1 year

**Controls:** 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

\* See <https://www.creelighting.com/resources/warranties/> for warranty terms

\* Varies by fixture



## Ordering Information

Fully assembled kit is composed of lightbars and drivers included.

Example: UR2-24-26L-830-10V5-UNV-BP

UR						10V5	UNV	
Family	Size	Lumen Package	CRI/CCT	Lens	Distribution	Control	Voltage	Packaging
UR2 Two-Light Bars w/ Driver	24 24"	26L 2,600 Lumens	830 80 CRI, 3000K	Blank Round	Blank Light Bar	10V5 0-10V Dimming to 5%	UNV Universal 120-277V	BP Light Bars and Drivers shipped separately in cartons.
UR2 Two-Light Bars w/ Driver	24 24"	32L 3,200 Lumens	840 80 CRI, 4000K	Blank Round	Blank Light Bar	10V5 0-10V Dimming to 5%	UNV Universal 120-277V	BP Light Bars and Drivers shipped separately in cartons.
UR3 Three-Light Bars w/ Driver	24 24"	39L 3,900 Lumens	835 80 CRI, 3500K	Blank Round	Blank Light Bar	10V5 0-10V Dimming to 5%	UNV Universal 120-277V	Blank Ships as Individual sellable kit
UR3 Three-Light Bars w/ Driver	48 48"	63L 6,300 Lumens	840 80 CRI, 4000K	Blank Round	Blank Light Bar	10V5 0-10V Dimming to 5%	UNV Universal 120-277V	BP Light Bars and Drivers shipped separately in cartons.
UR4 Four-Light Bars w/ Driver	48 48"	84L 8,400 Lumens	835 80 CRI, 3500K	Blank Round	Blank Light Bar	10V5 0-10V Dimming to 5%	UNV Universal 120-277V	BP Light Bars and Drivers shipped separately in cartons.
UR4 Four-Light Bars w/ Driver	48 48"	84L 8,400 Lumens	840 80 CRI, 4000K	Blank Round	Blank Light Bar	10V5 0-10V Dimming to 5%	UNV Universal 120-277V	BP Light Bars and Drivers shipped separately in cartons.



Website: [creelighting.com](https://www.creelighting.com)

US: (800) 236-6800 Canada: (800) 473-1234

**CREE**  **LIGHTING**

## UR Series LED Upgrade Kit - 2', 4'

### Product Specifications

#### CREE LIGHTING LED TECHNOLOGY

Cree Lighting'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
- Includes two durable, movable plastic mounting clips with integrated magnets allow for simple snap on design to luminaire
- Polycarbonate lens and endcaps
- Shatterproof design
- **Weight:** UR2-24: 1.7 lbs. (0.75kg); UR3-24: 1.8 lbs. (0.82kg); UR3-48: 2.2 lbs. (0.98kg); UR4-48: 2.8lbs. (1.27kg)

#### 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

- **Power Factor:** > 0.9 at full load
- **Input Power:** Stays constant over life
- **Input Voltage:** 120-277V, 50/60Hz
- **Operating Temperature Range:** -20°C - +45°C (-4°F - +113°F)
- **Total Harmonic Distortion:** < 20% at full load

#### CONTROLS

- Continuous dimming to 5% with 0-10V DC control protocol
- **10V Source Current:** 0.25mA
- Use only lighting controls with neutral connection or controls intended for use with LED fixtures
- Reference <https://cree.widen.net/s/9sc962ctfv/0-10v-step-and-les-controls-options-spec-sheet-cr-flex-zr-troffers-ls-ur-styllus-ws-cdr-kbl> for recommended dimming controls and wiring diagrams

#### 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 only
- Meets FCC Part 15, Subpart B, Class A limits for conducted and radiated emissions
- RoHS compliant. Consult factory for additional details
- DLC Qualified. Please refer to <https://qpl.designlights.org/solid-state-lighting> for most current information
-  **CA RESIDENTS WARNING:** Cancer and Reproductive Harm - [www.p65warnings.ca.gov](http://www.p65warnings.ca.gov)

#### Delivered Lumens & Electrical Data\*

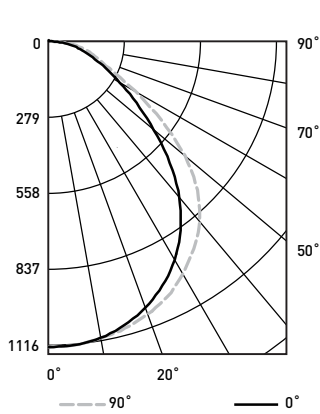
Series	Size	Lumen Package	System Delivered Light Output	Target Fixture Delivered Light Output	System Watts 120-277V	Total Current (A)			
						120V	208V	240V	277V
UR2	24	26L	2,600	2,360	21	0.18	0.11	0.10	0.09
		32L	3,200	2,700	25	0.21	0.13	0.12	0.10
UR3	24	39L	3,900	3,510	32	0.27	0.16	0.14	0.13
UR3	48	63L	6,300	5,100	47	0.39	0.22	0.20	0.17
UR4	48	84L	8,400	6,875	62	0.52	0.30	0.26	0.23

\* Data provided at 25°C (77°F). Actual lumens and wattages may differ by +/- 10% when operating between 120-277V +/-10%.

Photometry

UR2-24-32L-830-10V5-UNV IN A 2 x 2 RECESSED TROFFER BASED ON STANDARD-TECH TEST # JBE200416-C

Luminaire photometry has been conducted in accordance with IES LM-79. IES LM-79 specifies the entire luminaire as the source resulting in a luminaire efficiency of 100%.



Coefficients Of Utilization – Zonal Cavity Method				
RC %:	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	75	68
4	85	73	65	59
5	78	66	57	51
6	72	60	51	45
7	67	54	46	40
8	63	50	42	36
9	59	46	38	32
10	55	42	35	29

Effective Floor Cavity Reflectance: 20%

Average Luminance Table [cd/m2]				
Vertical Angle	Horizontal Angle			
		0°	45°	90°
	45°	3,043	3,355	3,727
	55°	2,346	2,724	3,016
	65°	1,869	1,758	2,099
	75°	1,684	1,462	2,076
	85°	1,642	1,809	2,160

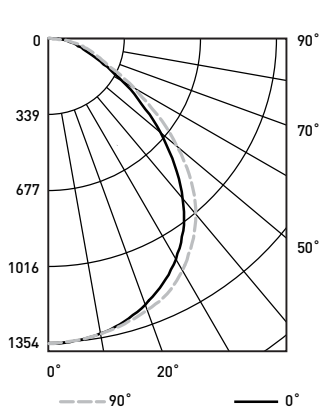
Zonal Lumen Summary			
Zone	Lumens	% Lamp	Luminaire
0-30	868	N/A	31.5%
0-40	1,411	N/A	51.2%
0-60	2,327	N/A	84.4%
0-90	2,747	N/A	99.6%
0-180	2,758	N/A	100%

Reference [creelighting.com/products/indoor/upgrade-solutions/ur-series](https://creelighting.com/products/indoor/upgrade-solutions/ur-series) for detailed photometric data

Photometry

UR2-48-42L-830-10V5-UNV IN A 2 x 4 RECESSED TROFFER BASED ON STANDARD-TECH TEST #: JBE200416-J

Luminaire photometry has been conducted in accordance with IES LM-79. IES LM-79 specifies the entire luminaire as the source resulting in a luminaire efficiency of 100%.



Coefficients Of Utilization – Zonal Cavity Method				
RC %:	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	75	69
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	35	29

Effective Floor Cavity Reflectance: 20%

Average Luminance Table [cd/m2]				
Vertical Angle	Horizontal Angle			
		0°	45°	90°
	45°	1,806	1,956	2,045
	55°	1,421	1,572	1,652
	65°	1,030	977	1,183
	75°	899	881	1,104
	85°	1,011	963	873

Zonal Lumen Summary			
Zone	Lumens	% Lamp	Luminaire
0-30	1,063	N/A	31.3%
0-40	1,737	N/A	51.2%
0-60	2,874	N/A	84.6%
0-90	3,387	N/A	99.7%
0-180	3,396	N/A	100%

Reference [creelighting.com/products/indoor/upgrade-solutions/ur-series](https://creelighting.com/products/indoor/upgrade-solutions/ur-series) for detailed photometric data