

UR Series

UR2-48™ and UR3-48™ LED Upgrade Kit – 4'

Product Description

The UR Series 4ft (1219mm) 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 upgrading existing 1'x4' (305mm x 1219mm) or 2'x4' (610mm x 1219mm) 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'x4' (305mm x 1219mm) & 2'x4' (610mm x 1219mm) fixtures
Efficacy: 102 LPW at source level
System Delivered Light Output: 4500 lumens
Target Fixture Delivered Light Output: 4000 lumens*
Input Power: 44 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-EB10W - 10W

Ordering Information

Fully assembled kit is composed of two components that must be ordered separately.
Example: Lightbar: UR 48 35K FD LB 2 + Driver: UR2 48 45L 10V FD DR

Lightbar (Driver must be ordered separately)					
UR	48		FD	LB	
Series	Length	CCT	Options	Lightbar	Number of Lightbars
UR	48	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)						
	48	45L			FD	DR
Product	Length	Lumen Output	Voltage	Control	Options	Driver
UR2 2 Lightbar UR3 3 Lightbar	48	45L 44W, 4500 lumens - 102 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 for warranty terms



4' (1219mm) LED Lightbar
MOL- 44" (1118mm)

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



Rev. Date: V3 01/13/2015



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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
- Continuous dimming to 5% with 0-10V DC control protocol. Reference www.cree.com/Lighting/Products/Indoor/Upgrade-Solutions/UR-Series

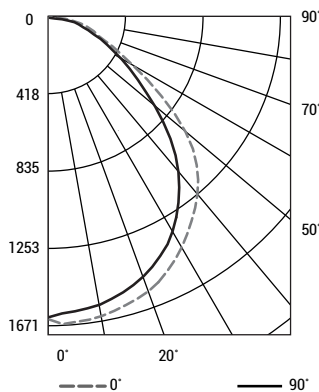
REGULATORY & VOLUNTARY QUALIFICATIONS

- DLC qualified. Please refer to 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 48 45L 40K FD INSTALLED IN A 2X4 RECESSED TROFFER BASED ON CESTL REPORT TEST #: 2013-0080

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	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%

Average Luminance Table (cd/m ²)				
Horizontal Angle				
	0°	45°	90°	
Vertical Angle	45°	2,181	2,364	2,367
	55°	1,700	1,956	2,131
	65°	1,353	1,277	1,475
	75°	1,210	979	1,432
	85°	1,275	1,284	1,593

Zonal Lumen Summary			
Zone	Lumens	% Lamp	Luminaire
0-30	1,286	N/A	31.2%
0-40	2,095	N/A	50.9%
0-60	3,488	N/A	84.7%
0-90	4,118	N/A	100%
0-180	4,118	N/A	100%

Reference www.cree.com/Lighting/Products/Indoor/Upgrade-Solutions/UR-Series for detailed photometric data

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