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' x 2' (305mm x 610mm) or 2' x 2' (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' x 2' (305mm x 610mm) or 2' x 2' (610mm x 610mm) fixtures

Efficacy: 100 LPW at source level

System Delivered Light Output: 3,600 lumens

Target Fixture Delivered Light Output: 3,200 lumens*

Input Power: 36 watts

CRI: 80

CCT: 3500K, 4000K

Input Voltage: 120-277 VAC or 347 VAC

Limited Warranty*: 7 years

Limited Warranty Emergency Back Up (EB) Battery: 1 Year Battery Back Up. Test regularly in

accordance with local codes

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 output power
- Provides 90 minutes of emergency operation Available on 120-277V only

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) Series CCT Lightbar **Number of Lightbars Options** Length UR **24** 24" 35K FD LB 3500K 80 CRI Lightbar 2 Lightbar Kit 40K 3 Lightbar Kit 4000K 6 Lightbar Bulk Pack

Driver (Lightba	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 24"	36L 36W, 3,600 lumens – 100 LPW	Blank 120-277V 34 347V - Available with 10V control option only	S Step Dimming to 50% 10V 0-10V Dimming to 5%	FD	DR Driver	





Rev. Date: V6 07/18/2017



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

The UR Series upgrade kit ships as two components:

lightbars and driver. Each component must be ordered

[†]See http://lighting.cree.com/warranty for warranty terms * Varies by fixture

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 luminaire
- · 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
- 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%

CONTROLS

- Step dimming to 50%
- 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://www.creelink.com/exLink.asp?70982140Z58R34I26620963

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
- Meets FCC Part 15, Subpart B, Class A standards for conducted and radiated emissions
- RoHS compliant. Consult factory for additional details

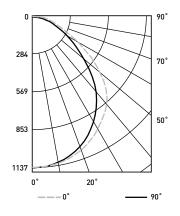
Electrical Data*						
1	System Watts 120-347V	Total Current (A)				
Lumen Output		120V	208V	240V	277V	347V
36L	36	0.30	0.17	0.15	0.13	0.10
36L w/EB5W Accessory	38	0.32	0.18	0.16	0.14	N/A

^{*} Electrical data at 25 °C (77 °F). Actual wattage may differ by +/- 10% when operating between 120-347V +/-10%

Photometry

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

Luminaire 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 luminaire efficiency of 100%



Average Luminance Table (cd/m2)					
	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	

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%

Luminaire
30.8%
50.0%
83.8%
100%
100%

Reference lighting.cree.com/products/indoor/upgrade-solutions/ur-series for detailed photometric data

