

PROJECT NAME	DATE	
CAT. NUMBER		
NOTES		

SPEC SHEET

URS Economy (URS-ECO)

DIRECT LINEAR APPLICATION AND RETROFIT SYSTEM

*U.S. PATENT NO. 10,054,296







Economical Retrofit Option

An economical, cost effective solution to the standard URS bar.



Quality Components

Comprised of a patented aluminum extrusion, high efficacy LEDs and an external dimmable LED driver.



Control and Sensors

Linmore LED driver with 0-10V dimming. Plus motion and dimming sensors, daylight and wireless controls available.















KEY FEATURES

- 2,400 to 13,500 lumens
- Up to 170 LPW
- 240° light distribution
- Up to 55°C ambient
- Estimated L70 >200,000 hours
- FCC CFR 47 Part 15
- 2' and 4' standard. Custom lengths available.5





TECHNICAL SPECS

	LUMEN OUTPUT ²	EFFICACY	WATTS	PART NUMBER
	1,350	150	9	LL-URS-ECO-4NA-1-50K-09W
	1,824	152	12	LL-URS-ECO-4NA-1-50K-12W
	2,235	149	15	LL-URS-ECO-4NA-1-50K-15W
4NA-1	2,628	146	18	LL-URS-ECO-4NA-1-50K-18W
4 ft. 1 bar	3,168	144	22	LL-URS-ECO-4NA-1-50K-22W
i bai	3,692	142	26	LL-URS-ECO-4NA-1-50K-26W
	4,200	140	30	LL-URS-ECO-4NA-1-50K-30W
	4,960	138	36	LL-URS-ECO-4NA-1-50K-36W
	2,898	161	18	LL-URS-ECO-4NA-2-50K-18W
	3,476	158	22	LL-URS-ECO-4NA-2-50K-22W
	4,056	156	26	LL-URS-ECO-4NA-2-50K-26W
4NA-2	4,620	154	30	LL-URS-ECO-4NA-2-50K-30W
4 ft. 2 bars	5,505	153	36	LL-URS-ECO-4NA-2-50K-36W
Z Dai S	6,662	151	44	LL-URS-ECO-4NA-2-50K-44W
	8,900	148	60	LL-URS-ECO-4NA-2-50K-60W
	9,968	138	72	LL-URS-ECO-4NA-2-50K-72W
	4,212	162	26	LL-URS-ECO-4NA-3-50K-26W
4NA-3	4,830	161	30	LL-URS-ECO-4NA-3-50K-30W
4 ft.	5,749	160	36	LL-URS-ECO-4NA-3-50K-36W
3 bars	6,956	158	44	LL-URS-ECO-4NA-3-50K-44W
	5,886	164	36	LL-URS-ECO-4NA-4-50K-36W
4NA-4	7,122	162	44	LL-URS-ECO-4NA-4-50K-44W
4 ft.	9,483	158	60	LL-URS-ECO-4NA-4-50K-60W
4 bars	11,066	153	72	LL-URS-ECO-4NA-4-50K-72W
	13,464	153	88	LL-URS-ECO-4NA-4-50K-88W
	1,305	145	9	LL-URS-ECO-2NA-1-41K-09W
2NA-1	1,740	145	12	LL-URS-ECO-2NA-1-41K-12W
2 ft.	2,175	145	15	LL-URS-ECO-2NA-1-41K-15W
1 bars	2,610	145	18	LL-URS-ECO-2NA-1-41K-18W
	2,880	160	18	LL-URS-ECO-2NA-2-50K-18W
2NA-2	3,498	159	22	LL-URS-ECO-2NA-2-50K-22W
2 ft.	4,082	157	26	LL-URS-ECO-2NA-2-50K-26W
2 π. 2 bars	4,650	155	30	LL-URS-ECO-2NA-2-50K-30W
	5,572	155	36	LL-URS-ECO-2NA-2-50K-36W

	LUMEN OUTPUT ²	EFFICACY	WATTS	PART NUMBER
	3,696	168	22	LL-URS-ECO-2NA-3-50K-22W
2NA-3	4,316	166	26	LL-URS-ECO-2NA-3-50K-26W
2 ft.	4,920	164	30	LL-URS-ECO-2NA-3-50K-30W
3 bars	5,817	162	36	LL-URS-ECO-2NA-3-50K-36W
	6,968	158	44	LL-URS-ECO-2NA-3-50K-44W
	5,494	153	36	LL-URS-ECO-2NA-4-50K-36W
2NA-4	6,580	150	44	LL-URS-ECO-2NA-4-50K-44W
2 ft. 4 bars	8,520	142	60	LL-URS-ECO-2NA-4-41K-60W
1 5013	11,223	156	72	LL-URS-ECO-2NA-4-41K-72W

Typical lumen output (±10%) at 120V (LV) under 25°C ambient temperature at 5000K.

Lumen Multipliers

Allows to calculate the actual lumen output for your application. Apply each multiplier to the lumens of the shaded table.

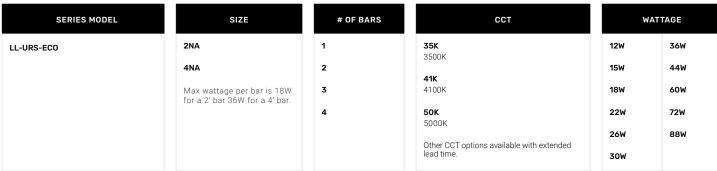
COLO	R TEMP
ССТ	Multiplier
5000	1.000
4100	1.000
3500	0.980

Example: How to calculate the actual lumen output of the 13,464 model at 3500K.

- 1) Find the nominal lumens from the table above.
- 2) Apply all the corresponding multipliers.



ORDERING



^{*}Includes 25 URS-ECO bars per case.

ORDERING EXAMPLES

Standard: LL-URS-ECO-4NA-4-41K-36W

FEATURES & SPECIFICATIONS

CONSTRUCTION

- **Extruded Aluminum Heat Sinks:** The heat sink extrusion is made of 6063 T5 Aluminum with substantial fins & surface area for superior heat dissipation.
- Patented Air Flow Cavity: Patented Air Flow Cavity under LED PCB allows dissipated heat to leave the URS area.
- LED Boards: Interior PCB Board made of aluminum core and mechanically bonded to the aluminum extrusion heat sink.
- Assembled in USA.

ELECTRICAL

- **Power Input:** 120-277V.
- Power Factor: >0.9 (0.99 typical).
- Total Harmonic Distortion: <10%.

OPERATION

- **Environment:** Dry/Damp, for interior applications.
- **Ambient Range Operation:** -40°C up to 55°C (-40°F up to 130°F).

OPTICS

- CCT: 3500K, 4100K and 5000K standard, other CCT available (extended lead time).
- CRI: >80, other CRI available (extended lead time).
- Lenses: Integral Volumetric Diffuser eliminates glare, evenly distributes light and transmits 94% of generated lumens. Suitable for all of your lighting applications. The beam angle is 240° for a wide distribution of light. Glass-free.

MOUNTING

- Installation Aid: End cap design includes a rare earth magnet which may assist in the installation process.
- Option to remote-mount the LED driver, enabling multiple installation options.

CONTROLS³

- Dimming: 0-10V standard. Dim to OFF.
- Networked Control Options: Compatible with Avi-on networked controls and UltraLink SIG Bluetooth® with Mesh Networked Controls4.
- Switches: Compatible Enocean switches.

WARRANTY

Standard: 10-year product warranty on the light bar and driver.

LISTINGS & CERTIFICATIONS

- U.S. Patent No. 10,054,296
- UL 1598
- RoHS compliant
- DesignLights™ Consortium¹
- FCC CFR 47, Part 15
- cUL













Must be ordered separately. Packaged separately.

BATTERY BACKUP	
Part Number	Description
LL-BBU-08W-001	Emergency backup battery at 8W.
LL-BBU-25W-001	Emergency backup battery at 25W.6

SURGE SUPPRESSOR		
SPD-277P-20KA-EC1	20kA Surge Suppressor	
SPD-480P-20KA-EC1	480V 20kA Surge Suppressor	

MOUNTING ACCESSORIES	
LL-HBR-HBA46	High Bay Adapter Plate, Aluminum, 11.5" W x 46.15" L
LL-URS-EC	URS Magnetic End Cap
Channels, channel covers and ballast cover available. Contact factory for more information.	

ADDITIONAL URS-ECO BAR		
LL-URS-ECO-2NA-1-xxK	Universal Retrofit ECO Light Bar, High Efficacy LEDs, 21.25", 1 Bar, Frosted Diffuser, Magnetic End Caps, Max 15 Watts/Bar, 100-227V	
LL-URS-ECO-4NA-1-xxK	Universal Retrofit ECO Light Bar, High Efficacy LEDs, 45.25", 1 Bar, Frosted Diffuser, Magnetic End Caps, Max 30 Watts/Bar, 100-227V	

CONTROLS	
FSP-201-L7	Wattstopper Digital High/Low Passive Infrared Occupancy Sensor, Bottom Mount, IP66 Rated, 12V DC Input, Dimming Control, Ambient, Remotely Programmable, includes L7 lens unless otherwise requested
FSP-211-L7	Wattstopper Digital High/Low Passive Infrared Occupancy Sensor, Bottom Mount, IP66 Rated, 120-277V Input, Dimming Control, Ambient, Remotely Programmable, includes L7 lens unless otherwise requested
FSP-L2	360° lens, max coverage 48' diameter from 8' height for use with FSP-201
FSP-L3	360° lens, max coverage 40' diameter from 20' height for use with FSP-201
FSIR-100	Wattstopper Remote Handheld Configuration Tool

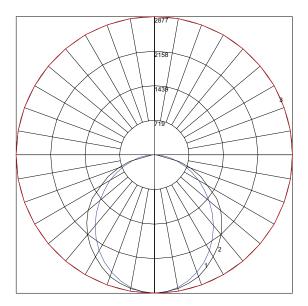
ULTRALINK	
LL-QBM-WFC-12V-SIL	Linmore Bluetooth Wireless Fixture Controller, 12V Input, Silvair Firmware
LL-QBM-RB-HGA-EXT	Linmore Bluetooth Wireless Fixture Controller, 12V Input, Silvair Firmware, Includes 2.4GHz Omni Directional High-Gain Antenna.
ULTRADIM20	UltraLink Wireless Fixture Controller with Sensor, PIR, 20FT, BLE
ULTRADIM40	UltraLink Wireless Fixture Controller with Sensor, PIR, 40FT, BLE
PSC-BL-I-RD-DCO-BLE-SR	Bluetooth Passive Infrared (PIR) Bi-Level Dimming Motion Sensor, Photocell, NO Daylight Harvesting, 12V DC Input, Remote Head Mount
PSC-BL-I-RT-DC0-BLE-SR	Bluetooth Passive Infrared (PIR) Bi-Level Dimming Motion Sensor, Photocell, Daylight Harvesting, 12V DC Input, Remote Head Mount
PSC-ND-I-CM-DC-BLE-SR	Bluetooth Passive Infrared (PIR) Ceiling Mount Occupancy Dimming Sensor, 12-24V DC Input.

ULTRALINK ACCESS	ORIES
ULTRAGATEWAY	Gateway, Long Range Bluetooth Mesh, 800 MHz ARM with 512 MB RAM, 8 GB Storage, Hardware Security Module, Encrypted File System, Secure Boot, Interior Installation Only
LL-QBM-GWB-EXT	Linmore Qualified Bluetooth Mesh Exterior Rated Gateway Box with High-Gain 2.4Ghz Antenna, 120-277V supply required. Gateway included.
ULTRASR	Bluetooth Wireless, self-powered Dimming Wall Switch, Single Rocker, On/Off/Dim, for use with UltraLink
ULTRADR	Bluetooth Wireless, self-powered Dimming Wall Switch, Double Rocker, On/Off/Dim/Scenes, for use with UltraLink
SCS-2	Dashboards for Energy, Occupancy Heat Mapping, and Energy Heat Mapping. Gateway (ULTRAGATEWAY) required, Sold Separately
ULTRAACT	UltraLink Factory Activation, Zone Identification on Packaging. For use with all Bluetooth Ready Fixtures / Systems
ULTRADESIGN	UltraLink System Design Services
PSC-TKP-200-BLE-SR	Battery Backup Bluetooth Node, includes outdoor rated enclosure and long range antenna. For use to keep time during a power outage and for in node scheduling

ULIRALINK WALL MUUNTED SENSURS		
PSC-DM-I-WS-100-BLE-SR	Bluetooth Dimming Wall Switch with Sensor, 120-277V, for use with UltraLink	
PSC-DM-WS-100-BLE-SR	Bluetooth Dimming Wall Switch, 120-277V, for use with UltraLink	

2NA MODEL

Polar Graph LL-URS-ECO-2NA-4-35K-60W



Maximum Candela: 2877

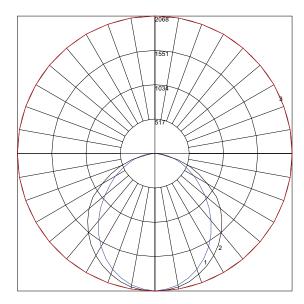
Located at horizontal angle: 0, Vertical angle: 0

#1: Vertical plane through horizontal angles (0-180)(through max Cd.)#2: Vertical plane through horizontal angles (90-270)

#3: Horizontal cone through vertical angle (0)(through max Cd.)

4NA MODEL

Polar Graph LL-URS-ECO-4NA-4-35K-36W



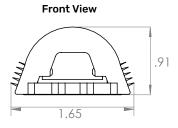
Maximum Candela: 2068

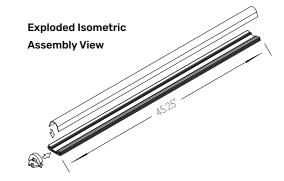
Located at horizontal angle: 0, Vertical angle: 0

#1: Vertical plane through horizontal angles (0-180)(through max Cd.)#2: Vertical plane through horizontal angles (90-270)

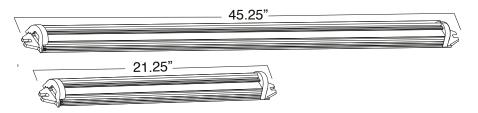
#3: Horizontal cone through vertical angle (0)(through max Cd.)

DIMENSIONS & DRAWINGS





Choices in Length



DIMENSIONS				
Size	Length (in)	Width (in)	Height (in)	Weight (lb)
2NA	21.25	1.65	0.91	<1
4NA	45.25	1.65	0.91	<1

FOOTNOTES

- 1. Check QPL for up-to-date listings.
- 2. Estimated lumen output based on calculations.
- 3. Synapse, Daintree and Enlighted are available with extended lead time. Electrical changes and additional components required to make fixture compatible.
- Requires Enocean switch, McWong sensor or a gateway for complete functionality.

- 5. Extended lead time. Contact factory.
- 6. 25W BBU can only be used when system wattage exceeds 26W.

Linmore LED Labs, Inc.

2360 S Orange Ave, Fresno, CA 93725
559 485 6010 | info@linmoreled.com | linmoreled.com

