

Essentia® Series Wrap

LED Wrap – 4' (1.2M)

Product Description

The Essentia® Series Wrap surface mounted LED wrap combines application flexibility and market leading energy efficiency and controls. The smart durable arc lens design provides smooth uniform light quality and an amazing 115 lumens per watt. The LED wrap features standard 0-10V dimming and optional occupancy sensing which delivers amazing energy savings and controllability.

Applications: Hospitality, retail, industrial, commercial, petroleum

Performance Summary

Initial Delivered Lumens: 4,140 lumens

Input Power: 36 watts

Efficacy: 115 LPW

CRI: 80

CCT: 3000K, 3500K, 4000K

Input Voltage: 120-277 VAC

L₇₀ Lifetime: 100,000 hours at 25°C

Limited Warranty¹: 5 years

Dimming: 0-10V dimming to 5%

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

Mounting: Surface Mount or Suspended

¹ See <http://lighting.cree.com/warranty> for warranty terms

Accessories

Field-Installed

Dimming Occupancy Sensor w/Photocell

S-WRAC-OC-1

- Enables daylight harvesting
- Not for use with EB option
- Refer to installation instructions for details



Through Wiring Kit

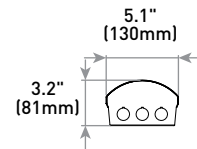
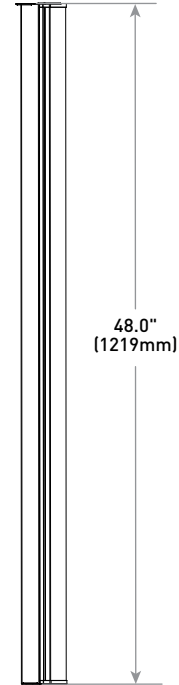
LS4TWK

- Includes (3) #12AWG 54" (1372mm) Wires for Line (black), Neutral (white), Ground (green), (2) #18AWG 54" (1372mm) Wires for 0-10V Dimming (purple, gray) and (10) Wire Nuts
- Not for use with EB option

Decorative End Cap Accessory

S-WR-EC

- Two per pack
- Not for use when conduit enters the end of the luminaire
- Not for use with S-WRAC-OC-1 accessory or EB option



Ordering Information

Example: S-WR4-40L-30K-10V

| S-WR | 4 | 40L | | | 10V | |
|------------------------------|----------|--------------------------|--|-----------------------|--------------|---|
| Product | Size | Initial Delivered Lumens | CCT | Voltage | Control | Options |
| S-WR Essentia Series Wrap | 4 48" | 40L 36W, 4,140 lumens | 30K 3000K 35K 3500K 40K 4000K | Blank 120-277 volt | 10V 0-10V | EB14 Emergency Backup - Minimum 90 minutes - 1,100 lumens |



Rev. Date: V5 05/07/2018

US: lighting.cree.com

T (800) 236-6800 F (262) 504-5415

Canada: www.cree.com/canada



T (800) 473-1234 F (800) 890-7507

Product Specifications

CONSTRUCTION & MATERIALS

- 24ga. steel frame provides strength and uniformity
- Luminaire is post-painted with a soft matte white paint
- Suitable for mounting in any orientation: uplight, downlight, wall
- Can be mounted individually or in continuous rows
- Maximum continuous run is up to 47 luminaires at 120V and 110 luminaires at 277V
- Flexible mounting provisions allow for surface mounting, t-bar grid mounting, chain mounting; mounting hardware by others
- Suitable for through wiring
- **Weight:** 7.7 lbs. (3.5kg)

OPTICAL SYSTEM

- IP40 lens assembly designed to prevent bug ingress
- Diffuse optical grade acrylic arc lens with matte finish
- Provides 4.7% uplight

ELECTRICAL SYSTEM

- Integral, high-efficiency driver
- **Power Factor:** > 0.9 (standard luminaire); EB Option: 0.5 (120V) and 0.15 (277V)
- **Input Power:** Stays constant over life
- **Input Voltage:** 120-277V, 60Hz
- **Operating Temperature Range:** 0°C - + 35°C (32°F - + 95°F)
- **Total Harmonic Distortion:** < 20%
- **10V Source Current:** 0.25mA

CONTROLS

- Continuous dimming to 5% with 0-10V DC control protocol
- For use with Class 2 dimming systems only
- Use only lighting controls with neutral connection or controls intended for use with LED fixtures
- Reference www.creelink.com/exLink.asp?70982140Z58R34I26620963 for recommended dimming controls and wiring diagrams

REGULATORY & VOLUNTARY QUALIFICATIONS

- cULus Listed
- Suitable for damp locations
- Designed for indoor use
- Not intended for use in environments containing airborne corrosive agents such as chemical solvents, cleaners, or cutting fluids
- RoHS compliant. Consult factory for additional details
- Meets FCC Part 15, Subpart B, Class A standards for conducted and radiated emissions
- UL924 (EB option). Maximum mounting height: 15.0' (4.6m)
- DLC qualified for linear ambient category, and DLC Premium qualified for stairwell category. Please refer to update link to <https://www.designlights.org/search/> for most current information

| Electrical Data* | | | | | |
|--------------------------|-----------------------|-------------------|------|------|------|
| Initial Delivered Lumens | System Watts 120-277V | Total Current (A) | | | |
| | | 120V | 208V | 240V | 277V |
| 40L | 36 | 0.30 | 0.17 | 0.15 | 0.13 |

* Electrical data at 25°C (77°F). Actual wattage may differ by +/- 10% when operating between 120-277V +/- 10%

| Recommended Essentia® Series Flat Panel Lumen Maintenance Factors (LMF) ¹ | | | | | |
|--|-------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|
| Ambient | Initial LMF | 25K hr Projected ² LMF | 50K hr Calculated ³ LMF | 75K hr Calculated ³ LMF | 100K hr Calculated ³ LMF |
| 25°C (77°F) | 1.00 | 0.98 | 0.97 | 0.96 | 0.95 |

¹ Lumen maintenance values at 25°C are calculated per TM-21 based on LM-80 data and in-situ luminaire testing

² In accordance with IESNA TM-21-11, Projected Values represent interpolated value based on time durations that are within six times (6X) the IESNA LM-80-08 total test duration [in hours] for the device under testing (DUT) i.e. the packaged LED chip

³ In accordance with IESNA TM-21-11, Calculated Values represent time durations that exceed six times (6X) the IESNA LM-80-08 total test duration [in hours] for the device under testing (DUT) i.e. the packaged LED chip

Application Reference

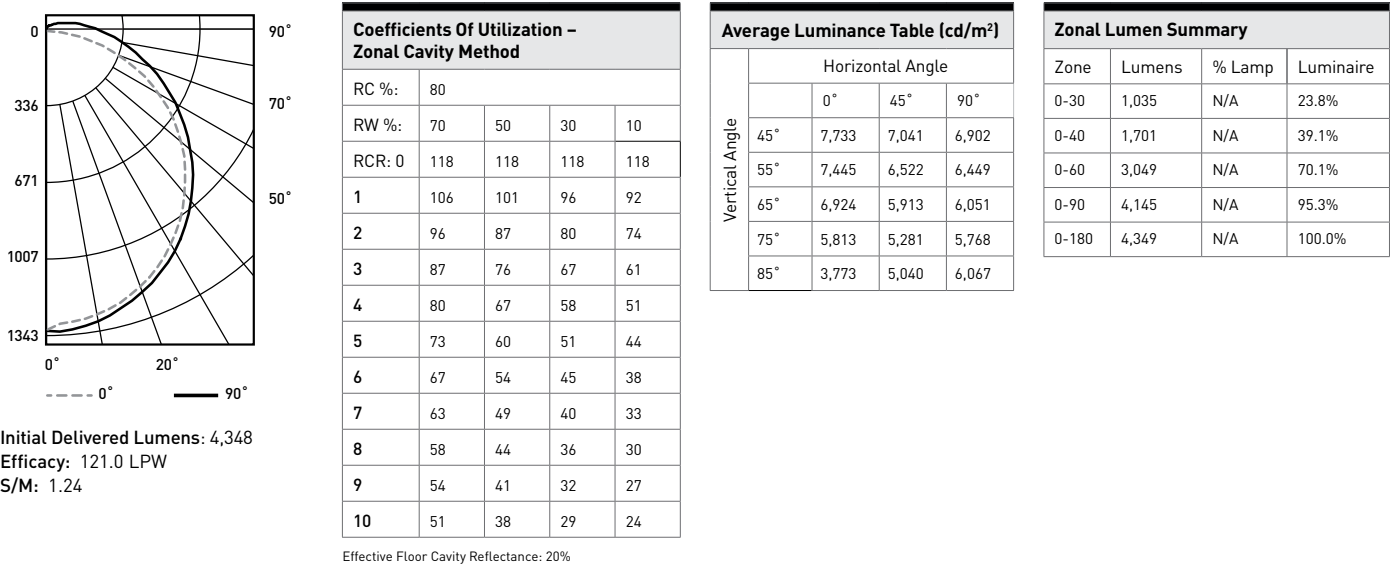
| Open Space | | | | | | |
|--------------|--------------------------|--------|---------|-----|-------------------|------------|
| Spacing (ft) | Initial Delivered Lumens | Lumens | Wattage | LPW | w/ft ² | Average fc |
| 8x8 | 40L | 4,140 | 36 | 115 | 0.54 | 57.8 |
| 8x10 | | | | | 0.45 | 48.2 |
| 10x10 | | | | | 0.36 | 38.6 |
| 10x12 | | | | | 0.29 | 30.9 |

9' Ceiling, 80/50/20 Reflectances, 2.5 workplane. LLF: 1.0 Initial. Open Space: 50' x 40'

Photometry

S-WR4-40L-40K-10V BASED ON DTC REPORT TEST #: PL08677-001B

Luminaire photometry has been conducted 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%.



Reference <http://lighting.cree.com/products/indoor/surface-ambient/essentia-series-wrap> for detailed photometric data