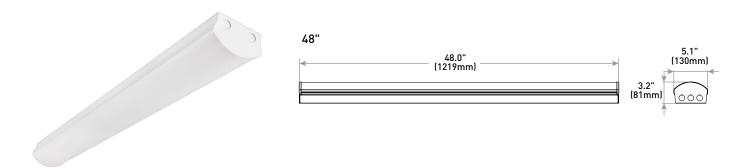


# LED WRAP

4' (1.2M)



#### PRODUCT DESCRIPTION

The Essentia® by Cree 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

# PRODUCT SPECIFICATIONS

#### **OVERVIEW**

- Efficacy: 115 LPW
- Intitial Delivered Lumens: 4,140
- Input Power: 36 Watts
- CCT: 3000K, 3500K, 4000K
- CRI: 80
- Input Voltage: 120-277 VAC

- L<sub>95</sub> Lifetime: 100,000 hours at 25°C
- Controls: 0-10V dimming to 5%
- Limited Warranty<sup>†</sup>: 5 years on luminiare
- Limited Warranty Emergency Back Up (EB) Battery: 1 Year Battery Back Up. Test regularly in accordance with local codes
- Mounting: Surface mount or suspended

## **ACCESSORIES**

#### DIMMING OCCUPANCY SENSOR W/PHOTOCELL

S-WRAC-0C-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

# ORDERING INFORMATION

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

S-WR	4	40L			10V	
PRODUCT	SIZE	INITIAL DELIVERED LUMENS	сст	VOLTAGE	CONTROL	OPTIONS
S-WR Essentia® by Cree LED Wrap	<b>4</b> 48"	<b>40L</b> 36W, 4,140 lumens	30K 3000K 35K 3500K 40K 4000K	Blank 120-277 Volt	<b>10V</b> 0-10V	EB Emergency Backup - Minimum 90 minutes - 1,100 lumens - For U.S. applications only

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







# 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
- 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%</li>
  10V Source Current: 0.25mA

#### CONTROLS

- Continuous dimming to 5% with 0-10V DC control protocol
- For use with Class 2 dimming systems only. 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 premium qualified for linear ambient and stairwell categories. Please refer to www.designlights.org/QPL 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	

<sup>\*</sup> Electrical data at 25  $^{\circ}$  C (77  $^{\circ}$  F). Actual wattage may differ by +/- 10% when operating between 120-277V +/- 10%

# RECOMMENDED ESSENTIA BY CREE LED WRAP LUMEN MAINTENANCE FACTORS (LMF)<sup>1</sup>

Ambient	Initial LMF	Projected <sup>2</sup>		75K hr Calculated <sup>3</sup> LMF	100K hr Calculated <sup>3</sup> LMF
25°C	1.00	0.98	0.97	0.96	0.95

Lumen maintenance values at 25°C are calculated per TM-21 based on LM-80 data and in-situ luminaire testing
 In accordance with IESNA TM-21-11, Projected Values represent interpolated value based

# APPLICATION REFERENCE

Open Space							
Spacing (ft)	Initial Delivered Lumens	Lumens	Wattage	LPW	w/ft²	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, open room. LLF: 1.0 Initial Open Space: 50' x 40'

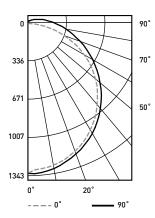
<sup>&</sup>lt;sup>2</sup> In accordance with IESNA TM-21-11, Projected Values represent interpolated value based on time durations that are within six times (6X) the IESNA LM-80-08 total test duration (in hours) for the device under testing ((DUT) i.e. the packaged LED chip)

<sup>&</sup>lt;sup>3</sup> 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)

# **PHOTOMETRY**

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

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%.



Initial Delivered Lumens: 4,348 Efficacy: 121.0 LPW S/M: 1.24

Coefficients Of Utilization – Zonal Cavity Method					
RCC%:	80				
RW%:	70	50	30	10	
RCR: 0	118	118	118	118	
1	106	101	96	92	
2	96	87	80	74	
3	87	76	67	61	
4	80	67	58	51	
5	73	60	51	44	
6	67	54	45	38	
7	63	49	40	33	
8	58	44	36	30	
9	54	41	32	27	
10	51	38	29	24	

Effective Floor Cavity Reflectance: 20%

Zonal Lumen Summary					
Zone	Lumens	%Lamp	Luminaire		
0-30	1,035	N/A	23.8%		
0-40	1,701	N/A	39.1%		
0-60	3,049	N/A	70.1%		
0-90	4,145	N/A	95.3%		
0-180	4,349	N/A	100.0%		

Reference http://lighting.cree.com for detailed photometric data

Ave	Average Luminance Table (cd/m²)						
	Horizontal Angle						
ر م		0°	45°	90°			
Vertical Angle	45°	7,733	7,041	6,902			
cal A	55°	7,445	6,522	6,449			
erti	65°	6,924	5,913	6,051			
>	75°	5,813	5,281	5,768			
	85°	3,773	5,040	6,067			

