

CS14™

4' LED Linear Luminaire

Product Description

The CS14™ LED linear luminaire delivers up to 4000 lumens of exceptional 90 CRI light. This breakthrough performance is achieved by combining the high efficacy and high-quality light of Cree TrueWhite® Technology and Cree MicroMixing™ Optics with a unique thermal management approach. The CS14 is available in neutral or cool color temperatures and has 0-10V dimming as standard option. Its compact, lightweight design makes it easy to install, making the CS14 perfect for use in grocery retail, showrooms and light industrial applications in new or upgrade construction.

Performance Summary

Utilizes Cree TrueWhite® Technology
Active Color Management
Room-Side Heat Sink
Made in the U.S.A. of U.S. and imported parts
Delivered Light Output: 2200-4000 lumens
Input Power: 33-38 watts
CRI: 90
CCT: 3500K, 4000K
Input Voltage: 120-277 VAC
Warranty: 10 years*
High Efficacy Lifetime: Designed to last 75,000 hours minimum
Base Lifetime: Designed to last 50,000 hours minimum
Dimming: 0-10V Dimming to 5%*
Mounting: Suspended or Surface with Tong Hangers (Standard)
Dimensions: L 48" x W 10" x H 5.8"
Weight: max 8 lbs.

Accessories

Reference CS Series Accessories document for more details.

Accessories	
TMM Metal Tong Hanger (Pair) - Recommended for surface mount	AC5-18/5-48-Q14B-JB Adjustable Power Feeds with Cable Support Canopy Kits
AC5-48-Q14B-TB Adjustable Cable Support Kits	AC5-12/3-48-Q14B-JB Adjustable Power Feeds with Cable Support Canopy Kits
AC2-48-Q14B-TB Adjustable Cable Support Kits	AC5-18/2-48-Q14B-JB Adjustable Power Feeds with Cable Support Canopy Kits
PC5-18/5-24-JB Adjustable Power Feed Canopy Cable Kits	AC-144-Q14B-LP Adjustable Loop Cable Kits
PC5-12/3-24-JB Adjustable Power Feed Canopy Cable Kits	
PC5-18/2-24-JB Adjustable Power Feed Canopy Cable Kits	

Ordering Information

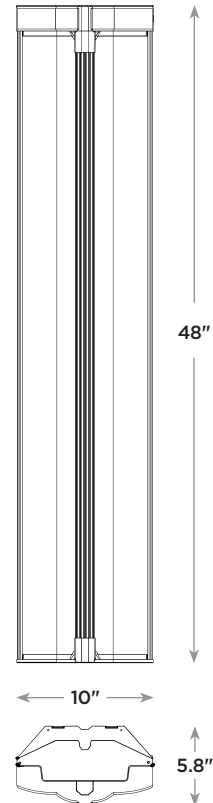
Example: CS14-40L HE-35K-10V

Product	Lumen Output	Color Temperature	Voltage	Control
CS14	40L HE 37W 4000 lumens	35K 3500 Kelvin	Blank 120-277 Volt	10V 0-10V Dimming to 5%
	38L HE 33W 3800 lumens			
	38L 38W 3800 lumens	40K 4000 Kelvin		
	22L 22W 2200 lumens			

*Reference www.cree.com/lighting for recommended dimming control options.

†See www.cree.com/lighting for warranty terms.

CS14



Product Specifications

CREE TRUEWHITE® TECHNOLOGY

A revolutionary way to generate high-quality white light, Cree TrueWhite® Technology mixes the light from the highest performing red and unsaturated yellow LEDs. This patented approach delivers an exclusive combination of 90+ CRI, beautiful light characteristics, and lifelong color consistency, all while maintaining high luminous efficacy—a true no compromise solution.

THERMAL MANAGEMENT

An innovative thermal management system designed to maximize cooling effectiveness by allowing free air movement around the heat sink and through the fixture. This breakthrough design and operating drive current of less than 350mA enables the LEDs to consistently run cooler, providing significant boosts to lifetime, efficacy, and color consistency.

LUMEN MAINTENANCE FACTORS

- Designed to a minimum of L85 at 75,000 hours with HE option and L88 at 50,000 hours with base option.
- Reference www.cree.com/lighting for detailed lumen maintenance factors.

CONSTRUCTION & MATERIALS

- High strength, lightweight polymer forms the reflector and driver housing.
- Multi-functional heat sink and light bar doubles as the wireway for through wiring harness.
- Two plastic tong hangers provided for surface or suspended installations. One tong hanger per unit plus one per row is required.
- Hangers are adjustable along fixture to accommodate existing mounting points for upgrade projects. Hanger support required within 18 inches of end of fixture.
- Individual fixtures may be connected end to end for continuous row mounting. Easy removal of individual fixtures mounted in continuous row.
- Not intended for use in environments containing airborne corrosive agents such as chemical solvents, cleaners, or cutting fluids.

OPTICAL SYSTEM

- High-efficiency reflector with MicroMixing™ Optics which integrates the intense direct LED light and distributes optimally mixed indirect white light resulting in a comfortable appearance while maintaining high-efficiency optics.
- Indirect LED strip eliminates direct view of highly efficient, lighting quality LEDs.

ELECTRICAL SYSTEM

- Room-side wiring access chamber with hinged door for easy electrical access.
- Integral through wiring harness (3#12 AWG power and 2#18 0-10V) with quick-connect plug connectors for easy and efficient continuous row installations while minimizing branch circuit wiring.
- Integral, high-efficiency driver and power supply.
- Power Factor** = 0.9 nominal
- Input Power:** Stays constant over life.
- Input Voltage:** 120V-277V, 50/60Hz
- Dimming:** Dimmable to 5% with 0 to 10V DC control protocol. Class 1 or Class 2 wiring. Use only lighting controls with relay or FET-based outputs, or lighting controls with neutral connection. Reference www.cree.com/lighting for recommended dimming controls.
- Temperature Rating:** Designed to operate in temperatures 0 C to 35 C
- Total Harmonic Distortion:** < 20%
- Operating Humidity:** < 80% non-condensing

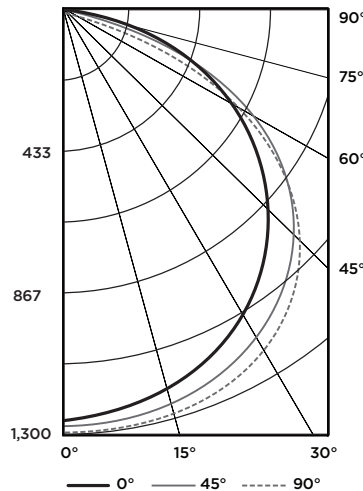
REGULATORY & VOLUNTARY QUALIFICATIONS

- cULus listed
- DLC qualified
- Suitable for damp locations

Photometry

CS14

CS14-40LHE-40K-10v



Coefficients Of Utilization

RCC %:	80			
RW %:	70	50	30	0
RCR: 0	119	119	119	119
1	108	104	99	95
2	98	90	83	77
3	89	79	70	64
4	82	69	60	54
5	75	62	53	46
6	69	55	46	40
7	64	50	41	35
8	59	46	37	31
9	55	42	33	28
10	52	38	30	25

Effective Floor Cavity Reflectance: 20%

Average Luminance Table (cd/m2)

Vertical Angle	Horizontal Angle		
	0°	45°	90°
45°	874	1005	1030
55°	711	828	816
65°	516	578	504
75°	288	225	195
85°	48	64	73

Zonal Lumen Summary

Zone	Lumens	Luminaire
0-30	1,027	25.00%
0-40	1,722	41.90%
0-60	3,194	77.80%
0-90	4,077	99.20%
0-180	4,100	100%

Reference www.cree.com/lighting for detailed photometric data.

