Rev. Date: V9 01/14/2025

Product Description

The new CR4T LED downlight delivers 790 lumens while achieving over 75 lumens per watt. This breakthrough performance is achieved by combining the high efficacy and high-quality 90 CRI light. The CR4T is available in warm and cool color temperatures, and easily installs into most standard four-inch recessed IC or non-IC housings.

Applications: New construction or upgrade for residential and commercial lighting

Performance Summary

Utilizes Cree TrueWhite® Technology

Initial Delivered Lumens: 790 lumens

Input Power: 10.5 watts

CRI: 90+

CCT: 3000K, 3500K, 4000K

R9: > 50

Limited Warranty[†]: 5 years for luminaire, 1 year for trims and housings

Lifetime: Designed to last 50,000 hours

Dimming: Dimmable to 5%

Accessories

Trims	
CR4T-TRMBRAN-1 - 4" [102mm] Plastic Reflector Trim - Bronze CR4T-TRMBKAN-1 - 4" [102mm] Plastic Reflector Trim - Black	CR4T-TRMSTAN-1 - 4" (102mm) Plastic Reflector Trim - Satin Nickel CR4T-TRMBKBB-1 - 4" (102mm) Plastic Reflector Trim w/Extended Flange - Black





Ordering Information

Example: CR4T-790L-30K-12-E26GU24

CR4T	790L		12	E26GU24			
	Ordering Information			Additional Information			
Series	Initial Delivered Lumens	сст	Voltage	Base Type	Single Carton UPC	Single Cartons/ Master Carton	Master Carton ITF-14
CR4T 4" [102mm]	790L 10.5W, 790 Lumens – 75 LPW	30K 3000K	12 120 Volts	E26GU24 Includes E26 (Title 20 Compliant) and GU24 Base Pigtail (Title 24 Compliant)	849665023395	12	10849665023392
(10211111)		35K 3500K		0024 base Figual (Title 24 Compilant)	849665023401	12	10849665023408
		40K 4000K			849665023418	12	10849665023415







Cree TrueWhite® Technology

[†] See https://www.creelighting.com/resources/warranties/ for warranty terms

Product Specifications

CREE TRUEWHITE® TECHNOLOGY

A revolutionary way to generate high-quality white light, Cree TrueWhite® Technology is a patented approach that 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.

CONSTRUCTION & MATERIALS

- Durable upper housing protects LEDs and driver. Adjustable flip clips resist heat while providing retention for flush ceiling fit
- Thermal management system uses the lower reflector to conduct heat away from LEDs and transfer it to the plenum space for optimal performance. LED junction temperatures stay below specified maximum even when installed in insulated ceilings
- · Suitable for insulated and non-insulated ceilings
- One-piece aluminum lower reflector redirects light while also conducting heat away from LEDs. It creates a comfortable visual transition from the lens to the ceiling plane and easily accommodates CRT4 snap-in trims

OPTICAL SYSTEM

- Unique combination of reflective and refractive optical components achieves a uniform, comfortable appearance while eliminating pixelation and color fringing. This ensures smooth light patterns are projected with no hot spots and minimal striations
- Components work together to optimize distribution, balancing the delivery of high illuminance levels on horizontal surfaces with an ideal amount of light on walls and vertical surfaces. This increases the perception of spaciousness
- Diffusing polycarbonate lens shields direct view of LEDs while lower reflector balances brightness of lens with the ceiling to create a low-glare high angle appearance
- $\bullet~$ Beam Angle (included angle between points of 50% of max. intensity): $\sim95^{\circ}$
- Field Angle (included angle between points of 10% of max. intensity): ~ 145°

ELECTRICAL SYSTEM

- Integral, high-efficiency power supply
- Power Factor: > 0.9
- Total Harmonic Distortion: < 20%
- Input Voltage: 120V, 50/60Hz
- Dimming: Dimmable to 5% with select incandescent dimmers. Forward phase (triac) and reverse phase dimming only.
- Reference
- $\frac{\text{https://www.creelighting.com/products/indoor/retrofit-downlights/crt-series}}{\text{for recommended dimmers}}$
- Use only lighting controls with neutral connection or controls intended for use with LED fixtures
- Operating Temperature Range: -25°C to +35°C (-13°F +95°F)

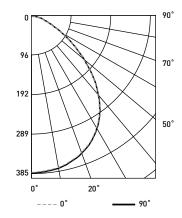
REGULATORY & VOLUNTARY QUALIFICATIONS

- cULus Classified
- Suitable for wet locations for covered ceilings only
- Meets FCC Part 15, Subpart B, Class B limits for conducted and radiated emissions
- Meets CA Title 24 JA8 Requirements
- Meets CA Title 20 Appliance Regulations
- RoHS Compliant. Consult factory for additional details
- CA RESIDENTS WARNING: Cancer and Reproductive Harm www.p65warnings.ca.gov

Photometry

CR4T-790L-27K BASED ON CESTL REPORT TEST #: PL13048-001A

Luminaire photometry has been conducted in accordance with IES LM-79. IES LM-79 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°	23,252	23,208	22,970		
cal A	55°	17,172	17,146	16,972		
Verti	65°	11,183	11,183	11,074		
	75°	8,303	8,362	8,332		
	85°	6,844	6,756	6,581		



Effective Floor Cavity Reflectance: 20%

Zonal Lumen Summary						
Zone	Lumens	% Lamp	Luminaire			
0-30	298	N/A	34.8%			
0-40	478	N/A	55.9%			
0-60	755	N/A	88.3%			
0-90	855	N/A	100.0%			
0-180	855	N/A	100.0%			

 $Reference\ \underline{https://www.creelighting.com/products/indoor/retrofit-downlights/crt-series}\ for\ detailed\ photometric\ data$

Installation

- Designed easily to install in standard 4" (102mm) downlight housings with minimum housing height of 5" (127mm) and diameter 4" to 4.1" (102mm - 104mm)
- Quick install system utilizes a unique retention feature. Simply attach socket to CR4T. Move light to ready position and slide into housing



NOTE: Reference https://www.creelighting.com/products/indoor/retrofit-downlights/crt-series for detailed installation installation

Application Reference

Open Spac	n Space				
Spacing	Lumens	Wattage	LPW	w/ft²	Average FC
4 x 4				0.63	46
6 x 6	790	10.5	75	0.29	21
8 x 8				0.15	11
10 x 10				0.10	7

10' Ceiling, 80/50/20 Reflectances, 2.5 workplane. LLF: 1.0 Initial. Open Space: 50' x 40' x 10'

Corridor					
Spacing	Lumens	Wattage	LPW	w/ft²	Average FC
4' on Center	790	10.5		0.44	16
6' on Center			85	0.30	11
8' on Center			75	0.21	7
10' on Center				0.17	6

 $10^{\circ}\ Ceiling,\ 80/50/20\ Reflectances,\ Light\ levels\ on\ the\ ground.\ LLF:\ 1.0\ Initial.\ Corridor:\ 6^{\circ}\ Wide\ x\ 100^{\circ}\ Long$

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