

KR Series

LED Specification Downlights



Available with  SmartCast™



KR4™



KR6™

Never Specify a Fluorescent Downlight Again.

EXCEPTIONAL Light Quality

The KR Series surpasses traditional lighting technology with optimal coloring rendering at 90 CRI, superior light distribution, and unparalleled lifetime color consistency.

TOTAL Flexibility

Beautiful aesthetics with a variety of choices — four or six-inch apertures, multiple lumen packages, color temperatures, Cree Sunset Dimming Technology and reflector finish options, the KR Series offers true design freedom.

UNBEATABLE Efficiency

Engineered for efficiency with up to 77 LPW and designed to last 50,000 hours, the KR Series offers more than double the efficacy of CFLs and up to five times the longevity. Multiple control options deliver energy-efficient, code-compliant spaces.

UNRIVALED Value

With beautiful architectural aesthetics and industry-leading performance at every-day specification grade pricing, the KR Series brings affordable LED lighting to commercial and retail spaces.

Specification Design, Unbeatable Versatility.

The 4-inch and 6-inch LED specification downlights deliver up to 3300 lumens of beautiful, high-quality light with superior efficacy. Multiple lumen packages, a variety of color temperatures, trim and dimming options make the KR Series an ideal solution for any new construction downlight application.

PERFORMANCE SUMMARY

Cree TrueWhite® Technology

Made in the U.S.A. of U.S. and imported parts

DELIVERED LIGHT OUTPUT: 655 to 3300 Lumens

INPUT POWER: 13 to 44 Watts

CRI: 90

CCT: 2700K , 3000K , 3500K or 4000K

INPUT VOLTAGE: 120 or 277 VAC

INITIAL EMERGENCY LIGHT OUTPUT: 555 to 695L

EMERGENCY POWER CONSUMPTION: 10W

DIMMING:** 5% Triac, 10% 0/1-10V, 1% Lutron EcoSystem®, 1% Lutron® Forward Phase

WARRANTY†: 10 years† (Fixture); 1 year (Emergency Battery)

* See www.cree.com/lighting/products/warranty for warranty terms.

**Refer to Specification sheet for additional dimming information

Product specifications subject to change at any time.

Visit www.cree.com/lighting to find the most up-to-date information and for recommended dimming control options.

CONSTRUCTION & MATERIALS

- Initial color within a 3-step MacAdam Ellipse.
- Low brightness parabolic spun Alzak aluminum cone, 0.06" (2mm) thick with polished radius and continuous self-flange.
- Soft Satin Glow Clear finish, standard.
- 2" (51mm) aperture throat to accommodate all standard and extra-thick ceilings and provide flexibility in mounting within grid.
- Provided with quick mounting brackets for optional carrying channels.
- Light engine, optics, and driver accessible from below ceiling.

ELECTRICAL SYSTEM

- Input Voltage: 120 or 277V
- 5% - 100% Triac dimming standard on 120V (9L and 13L models and 9L and 13L Sunset Dim models)
- 10% - 100% 0/1-10V available on all models; standard on 20L, 30L and 40L models)
- 1% - 100% Lutron EcoSystem and Forward Phase dimming available on 13L, 20L, 30L and 40L models. Consult Lutron for compatible dimmers.
- EB7 Emergency Battery Backup
- Power Factor: >0.9 (>0.7 for 9L models at 277V)

REFLECTOR FINISH OPTIONS

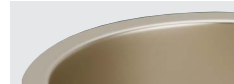
Clear Satin/Flat Flange



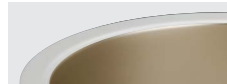
Clear Satin/White Flange



Champagne Gold Satin/Flat Flange

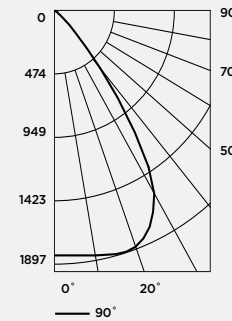


Champagne Gold Satin/White Flange



PHOTOMETRY

KR6-13L-27K-120V W/KR6T-SSGC-WF
BASED ON LTL REPORT TEST #: 30142



Coefficients Of Utilization - Zonal Cavity Method

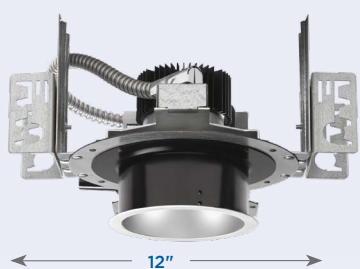
RC %:	80			
RW %:	70	50	30	10
RCR: 0	119	119	119	119
1	113	110	108	105
2	107	102	97	94
3	101	94	89	84
4	95	87	81	77
5	90	81	75	70
6	85	75	69	64
7	80	70	64	59
8	76	66	59	55
9	72	61	55	51
10	68	58	51	47

Effective Floor Cavity Reflectance: 20%

Cone of Light

Distance from Workplane	Footcandles	Beam Diameter	Zonal Lumen Summary			
			Zone	Lumens	% Lamp	Luminaire
6'	51	7.3	0-30	1524.0	N/A	61.5%
8'	29	9.7	0-40	2205.8	N/A	88.8%
10'	18	12.3	0-60	2461.5	N/A	99.1%
12'	13	14.5	0-90	2483.2	N/A	100.0%
14'	9	17.8	0-180	2483.2	N/A	100.0%

Testing represents 13L output models. To estimate performance for other output models, use the Application Performance chart above. For exact photometric data please reference our available IES and LM-79 test results at <http://www.cree.com/Lighting/Products/Indoor/Architectural-Downlights/KR-Series>



KR4™

4-inch LED Downlight

- 655 to 2,239 lumens
- Designed to last 50,000 hours
- 10-year limited warranty

Dimensions: L 12" x W 11.5" x H 7.25"



KR6™

6-inch LED Downlight

- 660 to 2,650 lumens
- Designed to last 50,000 hours
- 10-year limited warranty

Dimensions: L 11.9" x W 12.6" x H 7.2"

EMERGENCY BACKUP

Dimensions: L 18.4" x W 19.7" x H 7.4"

