CREE 💠

Cree® LMR4 LED Module with TrueWhite® Technology

Cree LED modules provide lighting designers and manufacturers with simple, easy-to-adopt LED lighting solutions that reduce fixture development time and speed time-to-market. The Cree LED LMR4 module is the ideal choice for enabling rapid fixture development where bright, beautiful, long-life lighting is required. The LMR series of modules incorporates Cree's award-winning TrueWhite® Technology into a compact system of integrated driver electronics, optics, and primary thermal management for use in residential and commercial lighting applications. This versatile LED lighting module jump-starts the design process for 5–6" (125–155 mm) downlights, wall sconces, or pendant lights in demanding end markets such as retail, museums, hospitality and restaurants.

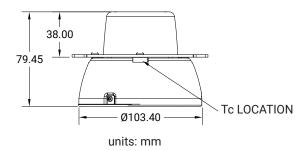
BENEFITS FOR LUMINAIRE DESIGNERS

- Faster time-to-market and lower system cost with complete, compact, light-source solution
- Reduced development time with concurrently designed and tested optics, driver electronics and primary thermal management
- Wide variety of design applications enabled with 2700 K, 3000 K, 3500 K and 4000 K correlated color temperatures
- Industry-leading, 5-year limited warranty backed by patented, reliable Cree LED technology
- Rapid regulatory approval and voluntary qualification of final luminaire enabled by:
 - ♦ UL® approval (120 V)
 - ♦ California Title 24 compliance (120 V)
 - ♦ LED LM-80 data for US ENERGY STAR®
 - ♦ Compliance with CE and other international standards (230 V)

BENEFITS FOR END USERS

- Vibrant color rendering showcases the full beauty of people, rooms and merchandise with > 90 CRI
- Significant energy savings over traditional lighting through superior efficacy
 - ♦ > 70 lm/W (700 lm)
 - ♦ > 67 lm/W (1000 lm)
- Uniform, visually comfortable appearance whether powered on or off by means of proprietary optics
- Designed to last 35,000 hours at L₇₀
- Consistent light quality over time and temperature delivered by built-in optical management system
- Dimming down to 5% of rated light output using standard incandescent and electronic low-voltage dimmers
- No UV or mercury











CHARACTERISTICS

Cree TrueWhite Technology is a revolutionary way of generating white light with LEDs. It delivers high efficiency with beautiful light characteristics and color accuracy, while maintaining color consistency over the life of the product.

Nominal Luminous Flux (lm)	CCT (K)	CRI	Input Power (W)	Module Efficacy (lm/W)	Input Voltage (V)/ Frequency (Hz)*	Power Factor	Dimming	Order Code
700	4000	> 90	9.5	74	120/60	> .80	TRIAC	LMR040-0700-40F9-10100TW
	3500	> 90	9.5	74	120/60	> .80	TRIAC	LMR040-0700-35F9-10100TW
700	3000	> 90	9.5	74	120/60	> .80	TRIAC	LMR040-0700-30F9-10100TW
	2700	> 90	9.5	74	120/60	> .80	TRIAC	LMR040-0700-27F9-10100TW
1000	4000	> 90	15	67	120/60	> .95	TRIAC	LMR040-1000-40F9-10100TW
					230/50	> .90	TRIAC	LMR040-1000-40F9-20100TW
	3500	> 90	15	67	120/60	> .95	TRIAC	LMR040-1000-35F9-10100TW
					230/50	> .90	TRIAC	LMR040-1000-35F9-20100TW
	3000	> 90	15	67	120/60	> .95	TRIAC	LMR040-1000-30F9-10100TW
					230/50	> .90	TRIAC	LMR040-1000-30F9-20100TW
	2700	> 90	15	67	120/60	> .95	TRIAC	LMR040-1000-27F9-10100TW
					230/50	> .90	TRIAC	LMR040-1000-27F9-20100TW

^{*} Input ranges are 110–130 V/60–70 Hz and 220–240 V/50–60 Hz. Note: Cree maintains a tolerance of +/- 7% on flux and power measurements.

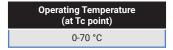
CHROMATICITY

The Cree LMR4 LED module provides high color consistency around the specified color temperature. Individual LEDs are tested and matched in order to meet our designed chromaticity specification.

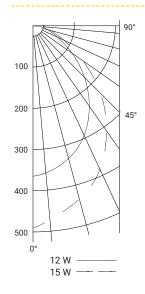
Secondary optics can be added to the module but will reduce light output and may also alter the color characteristics of the final luminaire design.

THERMAL MANAGEMENT GUIDELINES

The Cree LMR4 LED module is designed to perform in a variety of environments. To achieve lifetime and performance estimates, and to maintain the warranty, the final luminaire design cannot allow the module case temperature (Tc) point shown on page one to exceed 70 °C when the fixture is at thermal equilibrium. Follow the mechanical and thermal design guidelines listed in the Cree LMR4 LED Module Design Guide to ensure proper thermal management.



PHOTOMETRY



Intensity (Candlepower)						
Angle	700 lm Mean CP	1000 lm Mean CP				
0°	365	491				
5°	362	476				
15°	340	441				
25°	300	395				
35°	245	318				
45°	184	244				
55°	124	159				
65°	71	90				
75°	37	46				
85°	27	33				
90°	0	0				

ZONAL LUMENS - 700

Zone	Lumens	%
0-30°	242	35
0-40°	381	55
0-60°	607	87
0-90°	700	100

ZONAL LUMENS - 1000

ZONAL ZOMENO 1000							
Zone	Lumens	%					
0-30°	255	24					
0-40°	451	43					
0-60°	817	77					
0-90°	1057	100					

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for LED Lighting Development Tools category:

Click to view products by Cree manufacturer:

Other Similar products are found below:

MIC2870YFT EV 1278.1010 ADP1660CB-EVALZ ADP8860DBCP-EVALZ AS1119-DB HV9919BDB1 LM2796TLEV

LM3404MREVAL LP55231SQEVM ADM8843EB-EVALZ ADM8845EB-EVALZ ADP8861DBCB-EVALZ TDGL014 MIC2873YCS-EV

ISL97682IRTZEVALZ UCC25710EVM-654 LM3508TLEV LM3549SQEV/NOPB LP3943ISQEV EA6358NH TPS61158EVM-565

TPS61187EVM-528 TLC5929EVM-118 ZLED7020Kit-D1 V2.0 XRP7613EVB MAX16836EVKIT MAX16834EVKIT+

MAX16826EVKIT MAX16824EVKIT+ MAX16823EVKIT+ MAX16822BEVKIT+ MAX16821BEVKIT+ MAX16820EVKIT+

MAX16803EVKIT+ NCL30081LEDGEVB STEVAL-ILL002V4 MAX16833EVKIT+ MAX16839EVKIT+ TPS92315EVM-516

KIT12XS6EVM DC994A ISL78171EVAL1Z TLC59282EVM-118 MAX6956EVKIT+ OM13321,598 DC805A DC381A ADM00942

3106 ADM00939