

LR5

Retrofit Module for 5" Cans

Product Description

The LR5 is a downlight module designed to retrofit into 5" recessed cans from a selection of manufacturers. The LR5 generates white light with LEDs in a new way that enables an unprecedented combination of light output, high efficacy, beautiful color, and affordability. U.S. Patent #7,213,940 issued. Numerous patents pending.

Performance Summary

- Utilizes Cree TrueWhite™ technology
- 540 delivered lumens
- Nominal Input Power of 10.5W
- CCT = 2700K
- CRI = 94

Ordering Information

 Example: LR5E LT4-15A

Luminaire is ordered as two components which ship separately (light engine and reflector)

Light Engine

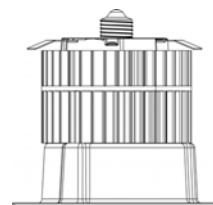
LR5E - 120V, Incandescent Color (2700K), Edison Base

Reflector

LT4-15A - Moderate recess diffuse anodized

Standard Color Options (Inner reflector color with white painted flange) - Add letters from below to end of description for colors. (LT4-15AP) For WH remove the "A" (LT4-15WH)

- W - Wheat G - Graphite
P - Pewter WH - White Paint
B - Black



LR5



LR5E



LT4-15A

LR5

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Product Information

Cree TrueWhite™ Technology

- A better way to generate white light that utilizes a patented mixture of unsaturated yellow and saturated red LEDs.
- Tuned to optimal color point before shipment.
- Color management system maintains color consistency over time and temperature.
- Designed to last 50,000 hours and maintain at least 70% of initial lumen output

Construction

- Integrated thermal management system conducts heat away from LED and transfers it to the surrounding environment. LED junction temperatures stay below specified maximums when installed in attic insulation with temperatures exceeding 60 degrees Celsius.

Optical System

- Proprietary optical system utilizes a unique combination of reflective and refractive optical components to achieve a uniform, comfortable appearance. Pixelation and direct view of uncomfortable LED's is eliminated.
- Lower reflector with 4.5" aperture. Smooth, non-distracting aperture appearance with lamp visible before lamp image.

Electrical System

- Integral, high efficiency driver and power supply. Power factor >0.9 Input voltage = 120V, 60Hz
- Dimmable to 20% with most incandescent dimmers (reference www.CreeLEDLighting.com for recommended dimmers)

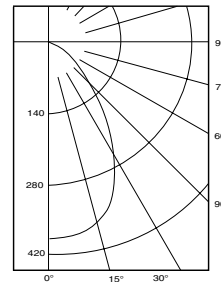
Regulatory and Voluntary Qualifications

- Tested and certified to UL standards. Suitable for damp locations
- Suitable for insulated or non-insulated ceilings
- ENERGY STAR® qualified Solid-State Lighting Luminaire.

Photometry

LR5 ITL Test #59866

Intensity (Candlepower) Summary



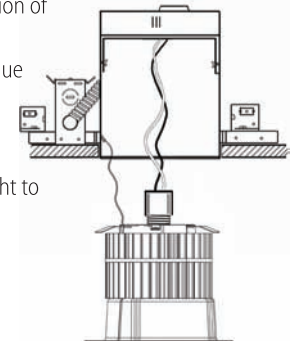
ANGLE	MEAN CP
0°	391
5°	387
15°	364
25°	298
35°	193
45°	102
55°	38
65°	5
75°	1
85°	0
90°	0

Zonal Lumen Summary

ZONE	LUMENS	%LAMP	%FIX
0° - 30°	259	47.9	53.5
0° - 40°	383	70.9	76.9
0° - 60°	518	96	98.8
0° - 90°	540	100.00	100.00

Installation

- Designed to easily install in standard 5" downlight housings from a selection of manufacturers*
- Quick install system utilizes a unique retention feature. Attach socket to module. Adjust module to ready position and slide into housing. Rotate module 1/4 turn to the right to lock in place.



* Reference www.CreeLEDLighting.com for housing compatibility

Application Comparison

Room

	6' x 6' Spacing		5' x 5' Spacing		4' x 4' Spacing	
	Workplane Illuminance	Wall Illuminance	Workplane Illuminance	Wall Illuminance	Workplane Illuminance	Wall Illuminance
LR5	14.1	5.6	18.8	10.7	26.3	11
65W BR30 White Baffle	14.0	6.3	18.7	8.6	26.1	12.6
26W CFL 4" Anodized	16.2	5.4	21.9	7.5	31.3	11.7
50W PAR20 5" White Baffle	13.6	3.7	19.6	5.0	29.0	7.5

Notes:
Average initial illuminance in footcandles, reflectances = 80/50/30, workplane height = 2.5', ceiling height = 9', Nine lights per room. Room sizes = 18'x18'; 15'x15'; 12'x12'

Hallway

	6' Spacing		8' Spacing		10' Spacing	
	Workplane Illuminance	Wall Illuminance	Workplane Illuminance	Wall Illuminance	Workplane Illuminance	Wall Illuminance
LR5	12.3	4.6	9.3	3.4	7.5	2.8
65W BR30 White Baffle	12.0	5.3	9.1	4.0	7.2	3.2
26W CFL 4" Anodized	14.1	4.5	10.9	3.4	8.8	2.8
50W PAR20 5" White Baffle	13.1	2.7	9.7	2.1	8.0	1.5

Notes:
Average initial illuminance in footcandles, reflectances = 80/50/30, workplane height = 2.5', ceiling height = 9', Six lights per hall, width = 6'



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