4" Recessed Architectural Downlight



Product Description

The LR4 downlight is a recessed architectural downlight designed for use in commercial and residential applications. Available with a moderate or deep recess angle offering flexibility to meet diverse lighting design requirements. It is suitable for use in insulated and non-insulated ceilings. The LR4 generates white light with LEDs in a new way that enables an unprecedented combination of light output, efficacy, beautiful color, and affordability. U.S. Patent # 7,213,940 issued. Numerous patents pending.

Performance Summary

Utilizes Cree TrueWhite® Technology

LR4E-15 — Moderate recess

- Delivered Light Output = 540 lumens
- Input Power = 10.5W
- CCT = 2700K or 3500K
- CRI = 90
- Five Year Warranty
- H = 5.5"D = 4.75"

LR4E-30 — Deep recess

- Delivered Light Output = 515 lumens
- Input Power = 11.1W
- CCT = 2700K or 3500K
- CRI = 90
- Five Year Warranty
- H = 7.0"D = 4.75"



Н4

IR4

Ordering Information Example: H4, LR4E-15, LT4-15A

Luminaire is ordered as three components which ship separately (housing, light engine, and reflector)

Housing Light Engine

• H4

Reflector

- LR4E-15 -120V, Moderate recess, 2700K
- V, Moderate recess, 2700K LT4-15A Moderate recess diffuse anodized
 - LR4E-15C -120V, Moderate recess, 3500K
- LT4-30A Deep recess diffuse anodized
- LR4E-30 -120V, Deep recess, 2700K
- LR4E-30C -120V, Deep recess, 3500K

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" (LT4-30WH).

W - Wheat B - Black

P - Pewter WH - White Paint



LR4E-30 and LR4E-15



LT4-30A and LT4-15A











4" Recessed Architectural Downlight

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
- Designed to last 50,000 hours and maintain at least 70% of initial lumen output.

Construction

- · Ships in three cartons:
- 1. Recessed architectural housing with rugged, integral extruded aluminum bar hangers.
- 2. Light engine with retention mechanism.
- 3. Architectural reflector.
- Durable cold rolled steel housing and extruded aluminum heat sink suitable for insulated or non-insulated ceilings.
- Integrated thermal management system conducts heat away from LED and transfers it to the surrounding environment. LED junction temperatures stay below specified maximums even 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 unshielded LEDs are
- Lower reflector with 4.5" aperture.
- Smooth, non-distracting aperture appearance with lamp visible before

Electrical System

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

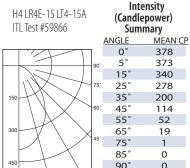
Regulatory and Voluntary Qualifications

- cETLus Listed[™]. Suitable for damp locations.
- Exceeds California Title-24 high efficacy luminaire requirements.
- Suitable for insulated or non-insulated ceilings.
- Airtight rated tested in accordance with ASTM E283.
- ENERGY STAR® qualified Solid-State Lighting Luminaire.

Photometry Intensity H4 I R4F-30 IT4-30A (Candlepower)

	Summary		
	ANGLE	MEAN CP	
	0°	362	
90	· 5°	357	
	15°	325	
75	. 25°	266	
140	35°	191	
60	45°	109	
	55°	50	
280	65°	18	
45	75°	1	
	85°	0	
0° 15° 30°	90°	0	
	_		
Zonal Lume	an Sumi	marv	

Zonal Lumen Summary					
ZONE	LUMENS %LAMP %F				
0°-30°	275	53.5	53.5		
0°-40°	314	76.9	76.9		
0°-60°	509	98.8	98.8		
0°-90°	515	100.00	100.00		



Zonai Lumen Summary				
ZONE	LUMENS	%FIX		
0°-30°	259	47.9	47.9	
0°-40°	383	70.9	70.9	
0°-60°	518	96	96	
0°-90°	540	100.00	100.00	

Installation

- · Recessed housing with integral nailer and ceiling grid attachment detail. Integral barhangers accommodate spans from 10-1/4" to 24-3/4" without sag.
- Adjustable bar hanger brake prevents hangers from sliding during installation and holds position
- Integral t-bar attachment clip engages with suspended ceiling to support fixture.
- Dimensions: h = 7'', w = 8-3/4'', L = 14''.
- Accommodates ceiling thickness from 1/4" to 4".



Adjustable bar hanger brake

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
H4 LR4E-15 LT4-15A	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	e 13.6	3.7	19.6	5.0	29.0	7.5
Maria						

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' Spaci	8' Spacing		10' Spacing	
	Workplane Illuminance	Wall Illuminance	Workplane Illuminance	Wall Illuminance	Workplane Illuminance	Wall Illuminance	
H4 LR4E-15 LT4-15A	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 Baf	fle 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 '							

