



CATALOG NUMBER:

TYPE:

NOTES:

# LR4 Preliminary – 02/08

## 4" Recessed Architectural Downlight

### Product Description

The LR4 is a recessed architectural downlight designed for use in commercial and residential applications. Variations include a moderate or deep shield 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 LED's 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.

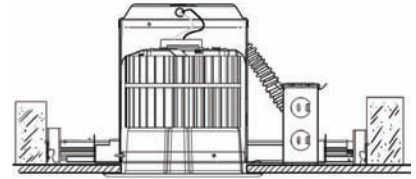
### Performance Summary

#### LR4 15 degree shield angle

- 540 lumens
- Nominal Input Power of 11.5W
- CCT = 2700K or 3500K
- CRI = 94 (2700K) = 91 (3500K)

#### LR4 30 degree shield angle

- 515 lumens
- Nominal Input Power of 11.8W
- CCT = 2700K or 3500K
- CRI = 94 (2700K) = 91 (3500K)



LR4



H4



LR4E-30 and LR4E-15



R4-30A and R4-15A



### Ordering Information

Example: H4 E4-15 R4-15A

Luminaire is ordered as three components which ship separately

Housing	Light Engine	Reflector
H4	LR4E-15 120V, 15° shield, 2700K	R4-15A 15° shield diffuse anodized
	LR4E-15C 120V, 15° shield, 3500K	R4-30A 30° shield diffuse anodized
	LR4E-30 120V, 30° shield, 2700K	
	LR4E-30C 120V, 30° shield, 3500K	

Standard Color Options - Add letters from below to end of description for colors (R4-15AP)

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

# LR4 4" Recessed Architectural Downlight

## Specifications and Features

### Light Emitting Diodes

- Proprietary technology delivers high quality white light
- Designed for 50,000 hours useful lifetime - when light output drops below 70% of initial output
- Active color maintenance

### Construction

- Ships in three components. Recessed architectural housing with rugged, integral extruded aluminum bar hangers, light engine with retention mechanism, and architectural reflector
- Durable cold rolled steel housing and extruded aluminum heat sink suitable for insulated or un-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 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 available 15 or 30 degree shield angle. Smooth, non-distracting aperture appearance with lamp visible before lamp image.

### Electrical System

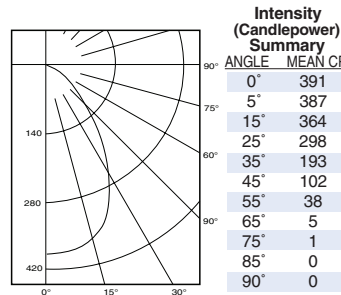
- Integral, high efficiency driver and power supply. Power factor > 0.95. Input voltage = 120V,60Hz
- Dimmable to 20% with most incandescent and electronic low voltage dimmers. (reference www.llfinc.com for recommended dimmers)

### Regulatory

- Tested and certified to UL standards. Suitable for damp locations.
- Exceeds high efficacy requirements for California Title-24

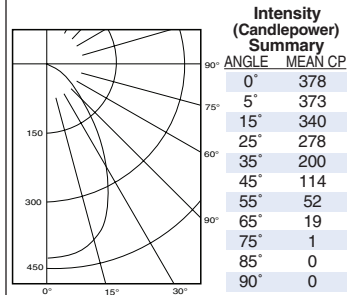
## Photometry

H4 LR4E-15 R4-15A - ITL Test #59866



Zonal Lumen Summary			
ZONE	LUMENS	%LAMP	%FIX
0° - 30°	275	53.5	47.9
0° - 40°	397	76.9	70.9
0° - 60°	509	98.8	96.0
0° - 90°	515	100	100

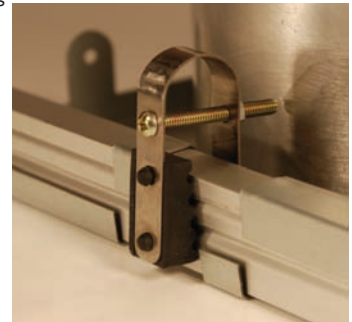
H4 LR4E-15 R4-30A - ITL Test #59865



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	100.0

## Installation

- Recessed housing with integral nailer and ceiling grid attachment detail. Integral bar-hangers 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 once installed.
- 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 4-5/8"
- Reference www.llfinc.com for detailed installation instructions



Adjustable bar hanger brake

## Application Comparison

TBD



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