

# IC-RATED 6" ROUND LED DOWNLIGHT

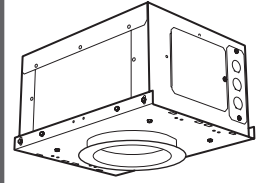
# ICLEDC60

**SUBMITTAL:**

**JOB:**

**TYPE:**

**VOLTAGE:**



EXAMPLE

**ICLEDC60 - 650 - GU24 - 27K - RWT - NB - OPTIONS - 120**

SERIES

LUMEN PACKAGE

LAMP BASE

MODULE COLOR TEMPERATURE

TRIM COLOR

MOUNTING

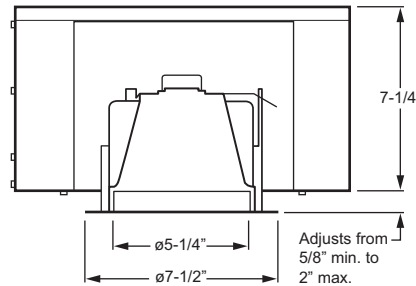
OPTIONS

VOLTAGE



## FEATURES

- ▶ LEDs deliver an exemplary combination of light output, high-efficacy, and pleasing color.
- ▶ Rated for 50,000 hours at 70% lumen maintenance (L70).
- ▶ 90 CRI (color rendering index).
- ▶ 650 lumens nominal delivered light output.
- ▶ 2700K or 3500K color temperatures.
- ▶ LED module and driver accessible from below ceiling plane for ease of maintenance.
- ▶ Dimmable down to 20% with qualified incandescent dimmers (reference [www.CreeLEDLighting.com](http://www.CreeLEDLighting.com) for recommended dimmers).
- ▶ For use in direct contact with insulation.
- ▶ Airtight option (ATH) complies with ASTM-E283 standards; meets Washington State Energy Code.
- ▶ Wide distribution illuminates walls and vertical surfaces.
- ▶ Integral pan throat field-adjusts to accommodate ceilings up to 2" thick.
- ▶ This fixture is proudly made in the USA.



Pan Size: 10-1/4" x 13-3/4"  
Ceiling Cutout: 7-1/2"

## SPECIFICATIONS

**Housing** – 22-gauge galvanized steel housing with 20-gauge pan and adjustable throat (5/8" to 2" thick).

**Inner Housing Finish** – Black TGIC polyester powder coat bonded to phosphate-free, multi-stage pretreated metal.

**LED Module & Driver** – 10.5-watt, 650-lumen, Cree LR6 LED module with integral high-efficiency driver and power supply. Integral cast aluminum heat sink.

**Electrical** – Prewired at factory for easy field installation.

**Mounting** – Recessed.  
**Labels** – cETLus conforms to UL STD 1598; Certified to CAN/CSA STD C22.2 No. 250.0. Suitable for damp locations. Suitable for direct insulation contact.

**Qualifications** – RoHS and California Title-24 compliant.

**Warranty** – 3-Year Parts Warranty provided by Cree on LED module.

## ORDERING INFORMATION

### SERIES

**ICLEDC60** IC-Rated 6" Round LED Downlight

### LUMEN PACKAGE

**650** 10.5-watt, 650-lumen, Cree LR6 LED module

### LAMP BASE

**GU24** GU24 base

### LED MODULE COLOR TEMPERATURE (Must specify)

**27K** 2700K  
**35K** 3500K

### TRIM COLOR (Must specify)

**RWT** Ribbed white trim (standard)  
**BLK** Black diffuse anodized trim  
**DA** Diffuse anodized trim  
**PW** Pewter diffuse anodized trim  
**SWT** Smooth white trim  
**WT** Wheat diffuse anodized trim

### MOUNTING (Must specify)

**HB** (2) Hanger brackets with (2) bar hangers (rigid bar mounting)  
**NB** (2) Nailer bars (wood joist mounting)  
**TB** (2) T-bar hangers (grid ceiling mounting)

### OPTIONS

**ATH** Airtight housing

### VOLTAGE

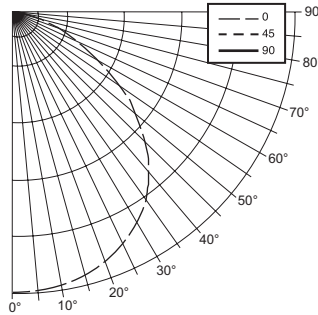
**120** 120V

## PHOTOMETRY INFORMATION

Catalog #: ICLEDC60-650-GU24-27K-RWT

### TEST REPORT INFORMATION

- ▶ Test Report #: 22226.0
- ▶ Date: 03/01/07
- ▶ Lamp Type: LED
- ▶ Lamp Quantity: 1
- ▶ **Rated Lumens: 647**
- ▶ **Watts: 10.5**
- ▶ **Lumens Per Watt: 62**
- ▶ **CRI: 90**
- ▶ **CCT: 2700K**



### CANDLEPOWER DISTRIBUTION

Vertical Angle	Horizontal Angle 0°	Zonal Lumens
0°	249.	
5°	248.	23.6
15°	242.	68.3
25°	228.	104.9
35°	203.	126.8
45°	165.	126.9
55°	115.	102.9
65°	62.	62.3
75°	24.	26.2
85°	6.	6.4
90°	0.	

### ZONAL CAVITY COEFFICIENTS

	Ceiling	.80			.70			.50		
	Wall	.70	.50	.30	.70	.50	.30	.50	.30	.10
Room Cavity Ratio	0	1.19	1.19	1.19	1.17	1.17	1.17	1.11	1.11	1.11
	1	1.10	1.06	1.02	1.07	1.04	1.00	.99	.96	.94
	2	1.01	.93	.87	.98	.91	.86	.88	.83	.79
	3	.92	.83	.75	.90	.81	.74	.78	.72	.67
	4	.85	.74	.65	.83	.72	.64	.70	.63	.58
	5	.78	.66	.57	.76	.65	.57	.63	.56	.50
	6	.72	.60	.51	.70	.59	.50	.57	.50	.44
	7	.67	.54	.46	.65	.53	.45	.52	.44	.39
	8	.63	.49	.41	.61	.49	.41	.47	.40	.35
	9	.58	.45	.37	.57	.45	.37	.44	.37	.32
	10	.55	.42	.34	.54	.41	.34	.40	.33	.29

Effective Floor Cavity Reflectance = .20

### LIGHT CONE QUICK CALCULATOR TABLES

	Mounting Height (Ft)	FC at Edge of Cone	FC at Nadir	Cone Dia. (Feet)	
				Across	Diagonal
Room Cavity Ratio	8	1.9	3.9	9.9	7.2
	10	1.2	2.5	12.4	9.0
	12	0.9	1.7	14.9	10.8
	14	0.6	1.3	17.4	12.6
	16	0.5	1.0	19.8	14.4
	18	0.4	0.8	22.3	16.2
	20	0.3	0.6	24.8	18.0

Effective Floor Cavity Reflectance = .20

### LUMEN SUMMARY

Zone	Lumens	% Fixture
0 - 30	198.	30.3
0 - 40	323.	49.9
0 - 60	553.	85.3
0 - 90	648.	100.0
<b>Total Luminaire:</b>		
0 - 180	648.	100.0

IES Spacing Criteria: End = 1.3  
Diagonal = 1.3  
Across = 1.3

### LUMINANCE DATA (cd/m<sup>2</sup>)

Vertical Angle	Horizontal Angle 0°
45	16523.
55	14205.
65	10426.
75	6531.
90	4788.