# PANEL2X4-59N/E2





2' x 4' LED panel lights with emergency battery Backup that will operate the LED Lamp for 90 minutes if power fails. For use in drop ceilings or drywall using the optional recessed mounting kit.

Color: White Weight: 34.0 lbs

Project:	Туре:
Prepared By:	Date:

	LED Info	
Constant Current	Watts:	59W
0.49A	Color Temp:	4000K
0.32A	Color Accuracy:	83 CRI
0.28A	L70 Lifespan:	100000
0.24A	Lumens:	8,146
58W	Efficacy:	140 LPW
N/A		
	0.49A 0.32A 0.28A 0.24A 58W	Constant Current Watts: 0.49A Color Temp: 0.32A Color Accuracy: 0.28A L70 Lifespan: 0.24A Lumens: 58W Efficacy:

# **Technical Specifications**

#### Listings

#### **UL Listing:**

Suitable for damp locations. Recommended for indoor use only.

#### IESNA LM-79 & LM-80 Testing:

RAB LED luminaries have been tested by an independent laboratory in accordance with IESNA LM-79 and LM-80, and have received the Department of Energy "Lighting Facts" label.

# Construction

#### IC Rating:

Suitable for insulated ceilings

# Lens:

High-transmission acrylic lens with excellent distribution and uniformity.

# Housing:

Lightweight housing is constructed of extruded aluminum.

#### Installation:

Modular splice box/driver compartment for quick installation. Integral Tee-grid ceiling clips make installation easy and secure.

## Finish:

Our environmentally friendly polyester powder coatings are formulated for high-durability and long-lasting color, and contains no VOC or toxic heavy metals.

#### Green Technology:

Mercury and UV free. RoHS compliant components. Polyester powder coat finish formulated without the use of VOC or toxic heavy metals.

## **Electrical**

#### **Emergency Battery Backup:**

Battery backup will operate the LED Lamp for 90 minutes if power fails. Wired for 120V-277V.

#### Drivers:

Two (2) Constant Current, Class 2, 100-277V, 50/60Hz, 4kV Surge Protection, 620mA, 100-277V: 0.6A, Power Factor 99.5%

#### THD:

6.9% at 120V, 10.2% at 277V

# Power Factor:

99.6% at 120V, 90.6% at 277V

### **LED Characteristics**

# LEDs:

Long-life, High efficiency, micro-power, surface mount LEDs; binned and mixed for uniform light output and color.

# Lifespan:

100,000-hour LED lifespan based on IES LM-80 results and TM-21 calculations.

#### **Color Consistency:**

3-step MacAdam Ellipse binning to achieve consistent fixture-to-fixture color.

#### Other

# California Title 24:

See PANEL2x4-59/D10 for a 2013 California Title 24 compliant product. Any additional component requirements will be listed in the Title 24 section under technical specifications on the product page.

#### **Country of Origin:**

Designed by RAB in New Jersey and assembled in the USA by RAB's IBEW Local 3 workers.

#### **Buy American Act Compliant:**

This product is a COTS item manufactured in the United States, and is compliant with the Buy American Act

# Recovery Act (ARRA) Compliant:

This product complies with the 52.225-21 "Required Use of American Iron, Steel, and Manufactured Goods-- Buy American Act-- Construction Materials (October 2010).

# **Trade Agreements Act Compliant:**

This product is a COTS item manufactured in the United States, and is compliant with the Trade Agreements Act.

# GSA Schedule:

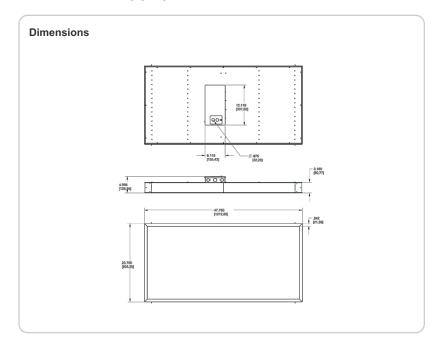
Suitable in accordance with FAR Subpart 25.4.

#### Warranty:

RAB warrants that our LED products will be free from defects in materials and workmanship for a period of five (5) years from the date of delivery to the end user, including coverage of light output, color stability, driver performance and fixture finish.

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# **Features**

Up to 60% savings on energy costs

High-reflectance (91%) powder coat applied post fabrication for a more durable finish

Ultra-smooth diffusion lens creates uniform light, edge to edge, for evenly lit spaces

Emergency battery backup to provide emergency lighting when power is lost

100,000-hour LED Lifespan

5-year warranty

Ordering Matrix					
Family	Size	Watts	Color Temp	Dimming	Battery Backup
PANEL					
	<b>2X4</b> = 2' x 4'	<b>44</b> = 44W <b>59</b> = 59W	Y = 3000K (Warm) YN = 3500K (Warm Neutral) N = 4000K (Neutral)	Blank = No Dimming /D10 = Dimmable	<b>/E2</b> = 120-277V Backup