



397 Route 281  
Tully, New York 13159  
Phone: 315 696-6676  
Fax: 315 696 9923  
Email: sales@acipower.com  
www.acipower.com

# ACR-1101-2735

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## 10.400" SINGLE BANK LED RAIL

(Single Bank, 110V @ 90.0mA)

10/18/16

### GENERAL DESCRIPTION

The ACR-1101-2735 is designed as a replacement for field replaceable, single tube, single edge lit 12.1" CCFL displays.

The rail requires the use of a constant current source to properly drive the LED's.

The LED rail is compatible with any of ACI's I-Drive series of LED Drivers.

### MECHANICAL / ENVIRONMENTAL

Weight = 8 grams

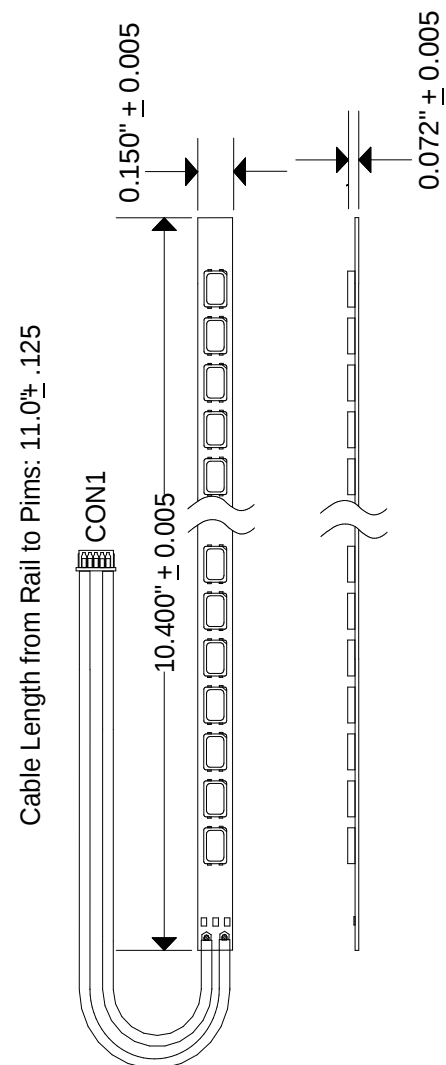
Altitude = 35,000 Ft maximum

Humidity < 95% non-condensing

Size (L x W x H) = 10.400 IN x 0.150 IN x .072 IN

PCB thickness = 0.032 IN

RoHS compliant



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## MAXIMUM RATINGS

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| Symbol | Parameter                                                    | Value       | Unit  |
|--------|--------------------------------------------------------------|-------------|-------|
| Tled   | Operating temperature of LED edge light (light rail contact) | -30 to +85  | Deg-C |
| Tstg   | LED Rail storage temperature                                 | -40 to +100 | Deg-C |
| Ifwd   | LED forward current                                          | 108.0       | mA    |

## LED OPTICAL CHARACTERISTICS

LED Manufacturer specifications for reference purpose only

| Symbol | Parameter                | Test Conditions | Min | Typ   | Max | Unit |
|--------|--------------------------|-----------------|-----|-------|-----|------|
| Iv     | Luminance Intensity Rank | Ifwd = 110mA    | 9   | 11    | 13  | cd   |
| X      | White X coordinate       |                 |     | 0.299 |     | -    |
| Y      | White Y coordinate       |                 |     | 0.289 |     | -    |

## LED RAIL ELECTRICAL CHARACTERISTICS

Ifwd = 90.0mA (1 Bank per Rail, 1 Rail per Display), Tled = +75Deg-C (LED's heat sinking to the display)

| Symbol | Parameter                     | Test Conditions | Min | Typ | Max | Unit |
|--------|-------------------------------|-----------------|-----|-----|-----|------|
| Vfwd   | LED rail forward voltage drop |                 | 99  | 110 | 121 | Vdc  |

## TYPICAL LED RAIL PERFORMANCE GRAPHS

