



397 Route 281 – P.O. Box 1175
Tully, New York 13159-1175
Phone: 315 696-6676
Fax: 315 696 9923
Email: sales@acipower.com
www.acipower.com

ACR-2175

PRODUCT DATA SHEET – PAGE 1 OF 3

7.500" DUAL MODE LED RAIL

(Day LEDs: Single Bank, 94V @ 62.5mA)
(NVIS LEDs: Single Bank, 50V @ 25mA)

08/19/15

GENERAL DESCRIPTION

The ACR-2175 is designed as a replacement for field replaceable, dual tube, dual edge lit 8.4" CCFL displays.

The rail uses high performance LEDs capable of Day and NVIS White operations.

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

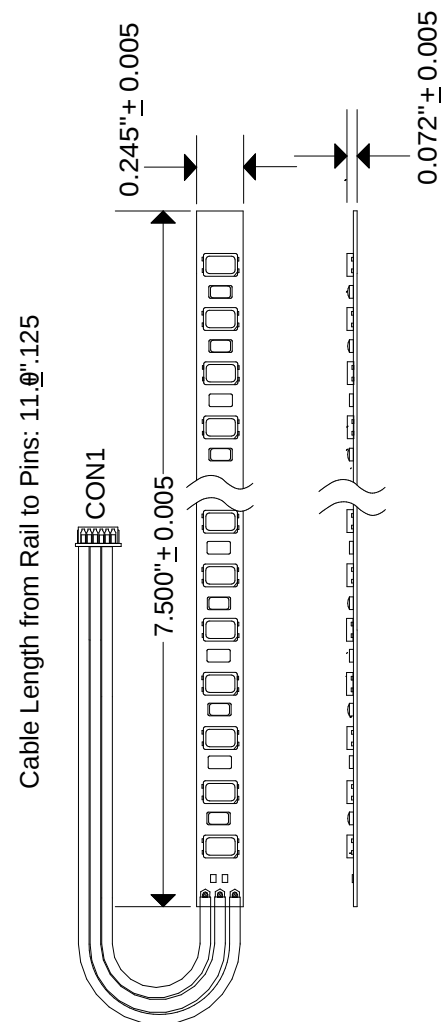
Humidity < 95% non-condensing

Size (L x W x H) = 7.500 IN x 0.245 IN x .072 IN

PCB thickness = 0.032 IN

Input connector = CON1

RoHS compliant



397 Route 281 – P.O. Box 1175
Tully, New York 13159-1175
Phone: 315 696-6676
Fax: 315 696 9923
Email: sales@acipower.com
www.acipower.com

PRODUCT DATA SHEET – PAGE 2 OF 3

DAY MODE

MAXIMUM RATINGS

08/19/15

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	Maximum LED forward current (DC)	75	mA

LED OPTICAL CHARACTERISTICS

LED Manufacturer specifications for reference purpose only

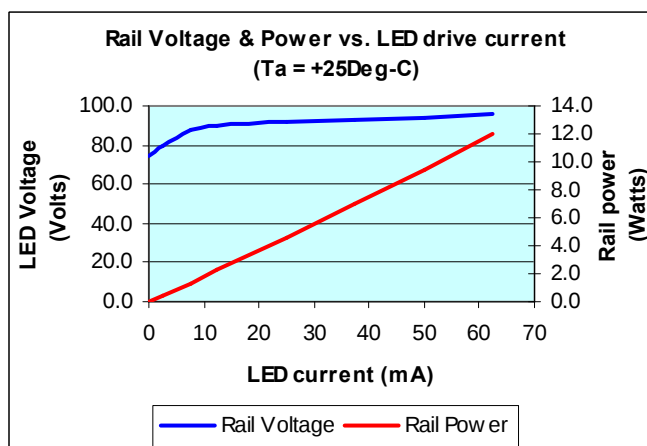
Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
BL	LED Brightness	Ifwd = 110mA	9	11	13	cd
X	White X coordinate			0.280		
Y	White Y coordinate			0.295		

LED RAIL ELECTRICAL CHARACTERISTICS

Ifwd = 62.5mA (1 bank per rail), Tled = +75Deg-C (LED's without heat sinking to the display)

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
Vfwd	LED rail forward voltage drop		84	94	104	Vdc

TYPICAL LED RAIL PERFORMANCE GRAPHS



397 Route 281 – P.O. Box 1175
Tully, New York 13159-1175
Phone: 315 696-6676
Fax: 315 696 9923
Email: sales@acipower.com
www.acipower.com

PRODUCT DATA SHEET – PAGE 3 OF 3

NVIS MODE

MAXIMUM RATINGS

08/19/15

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

LED OPTICAL CHARACTERISTICS

LED Manufacturer specifications for reference purpose only

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
BL	LED Brightness	Ifwd = 20mA			30	mcd
X	White X coordinate			0.19		
Y	White Y coordinate			0.49		

LED RAIL ELECTRICAL CHARACTERISTICS

Ifwd = 25mA (1 bank per rail), Tled = +75Deg-C (LED's without heat sinking to the display)

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
Vfwd	LED rail forward voltage drop		45	50	55	Vdc

TYPICAL LED RAIL PERFORMANCE GRAPHS

