



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

ACD-NC104-2736

PRODUCT DATA SHEET

10/28/20

10.4" XGA LED BACKLIT TFT DISPLAY

Sunlight Readability/1000:1 dimming/Cool operation

GENERAL DESCRIPTION

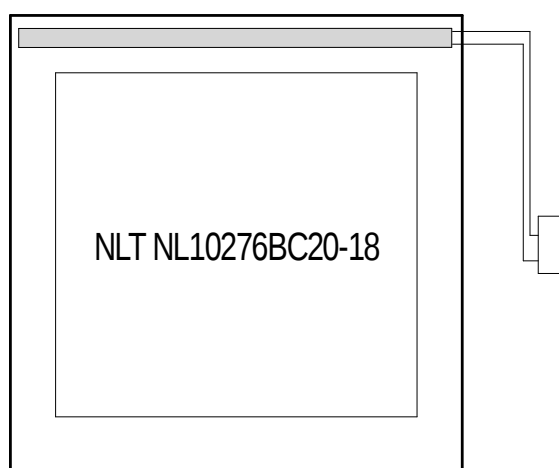
The ACD-NC104-2736 consists of the NLT NL10276BC20-18 XGA TFT display modified with a high performance LED backlight.

Performance at given brightness levels

1500 cd/m² with 14.0 watts LED power

Display outline identical to standard LED equipped panel

For many applications, satisfies sunlight readability goals



LCD PANEL HIGHLIGHTS

10.4" TFT Active Matrix Color

210.432 (H) mm x 157.824 (V) mm viewable area

XGA 1024 x 768 pixels, 16.7M colors

900:1 typical contrast ratio

40% color gamut (NTSC color space)

Display Mode Normally White

For complete LCD specification (standard panel), refer to NLT NL10276BC20-18 data sheet.

LED BACKLIGHT FEATURES

White LED edge-light rail

Two wire connection (Typically 11 inches long), allows simple interconnect with LED driver¹

Projected lifetime > 75,000 hours

1000:1 or better dimming ratio, guaranteed¹

¹ For best power transfer and control, use one of the following:

ACI-C085170-2743

ACI-3034 (Conformal Coated with Humiseal 1B73)

MAXIMUM RATINGS *

Symbol	Parameter	Value	Unit
Top ¹	Operating temperature of display (center of panel surface)	-30 to +80	Deg-C
Tled	Operating temperature of LED edge light (light rail contact)	-30 to +90	Deg-C
Tstg ¹	Display storage temperature	-30 to +80	Deg-C
Ifwd	Maximum LED edge-light forward current (DC)	102	mA

* Maximum Ratings are those values beyond which damage to the driver may occur

¹ Per Manufacture's Specification

PANEL/BACKLIGHT OPTICAL CHARACTERISTICS

Ifwd = 85mA per bank, LED rail ACR-0822-2747, 2 banks per rail, 1 rail per display, Ta = +25Deg-C, moving air (36.0 CFM), min 2hr soak

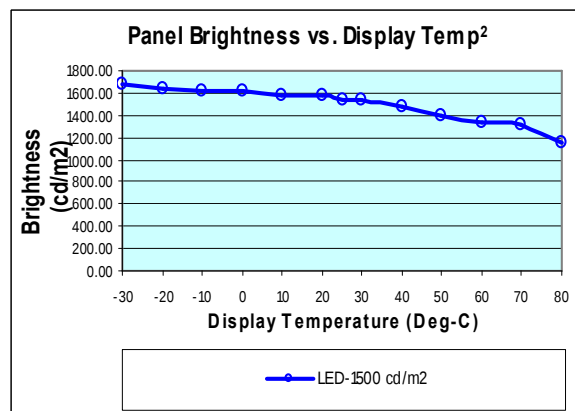
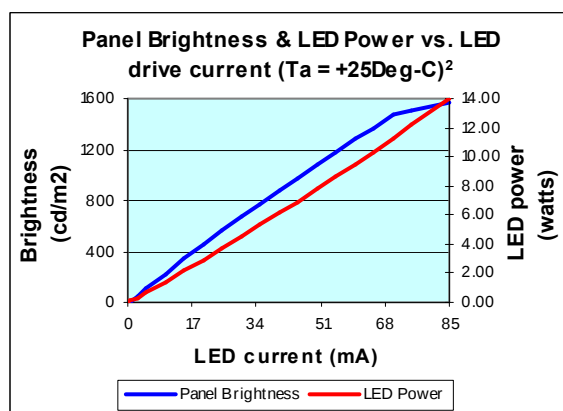
Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
Bp	Panel Brightness		1350	1500	1650	cd/m ²
X	White X coordinate			0.270		-
Y	White Y coordinate			0.292		-

LED EDGE-LIGHT ELECTRICAL CHARACTERISTICS

Ifwd = 85mA per bank, 2 banks per rail, 1 rail per display, Top = +25Deg-C

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
Vfwd	LED rail forward voltage drop		74	82	90	Vdc

TYPICAL LCD/LED BACKLIGHT PERFORMANCE GRAPHS



² Moving air (36.0 CFM)