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ACD-NC150-2259

PRODUCT DATA SHEET

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15.0" XGA LED BACKLIT TFT DISPLAY

Sunlight Readability/1000:1 dimming/Cool operation

GENERAL DESCRIPTION

The ACD-NC150-2259 consists of the NEC NL10276BC30-33D XGA TFT display modified with a high performance LED backlight.

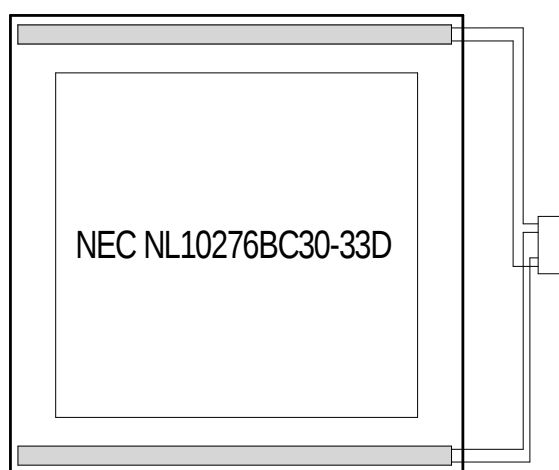
Performance at given brightness levels

1600 cd/m² with 15.5 watts LED power

1250 cd/m² with 11.4 watts LED power

Display outline identical to standard CCFL equipped panel

For many applications, satisfies sunlight readability goals



LCD PANEL HIGHLIGHTS

15.0" TFT Active Matrix Color

304.128 (H) mm x 228.096 (V) mm viewable area

XGA 1024 x 768 pixels, 16.7M colors

500:1 typical contrast ratio

72% color gamut (NTSC color space)

Display Mode Normally White

For complete LCD specification (standard panel), refer to NEC NL10276BC30-33D 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 ACI-E035480-3139 LED driver for 1600 nits.

¹ For best power transfer and control, use ACI-E035360-3123 LED driver for 1200 nits.

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 +85	Deg-C
Tstg ¹	Display storage temperature	-40 to +85	Deg-C
Ifwd	Maximum LED edge-light forward current (DC)	80	mA

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

¹ Per Manufacturer's Specification

PANEL/BACKLIGHT OPTICAL CHARACTERISTICS

Ifwd = 4 banks per rail, 2 rails per display, LED rail ACR-0334-2274, Ta = +25 Deg-C moving air (36 CFM) LCD displaying full-white image, minimum 2 hour soak.

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
Bp	Panel Brightness	Ifwd=60mA per Bank	1280	1600		cd/m ²
Bp	Panel Brightness	Ifwd=45mA per Bank	1000	1250		-
X	White X coordinate			0.269		-
Y	White Y coordinate			0.316		-

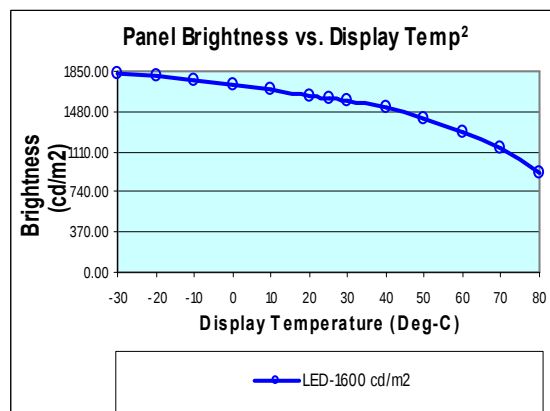
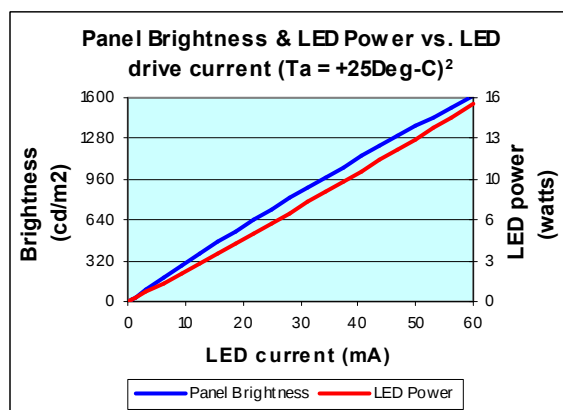
LED EDGE-LIGHT ELECTRICAL CHARACTERISTICS

Ifwd = 45mA-60mA per bank, 4 banks per rail, 2 rails per display, Top = +25Deg-C

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
Vfwd	LED rail forward voltage drop		30	33	36	Vdc

TYPICAL LCD/LED BACKLIGHT PERFORMANCE GRAPHS

1600 Nits



1250 Nits

