

15" XGA LED BACKLIT TFT DISPLAY WITH NVIS WHITE CAPABILITY

Sunlight Readability/1000:1 dimming/Cool operation

GENERAL DESCRIPTION

The ACD-2269 consists of the NEC NL10276BC30-33D XGA TFT display modified with a high performance LED backlight capable of Day and NVIS White.

Customer Consigned Panel

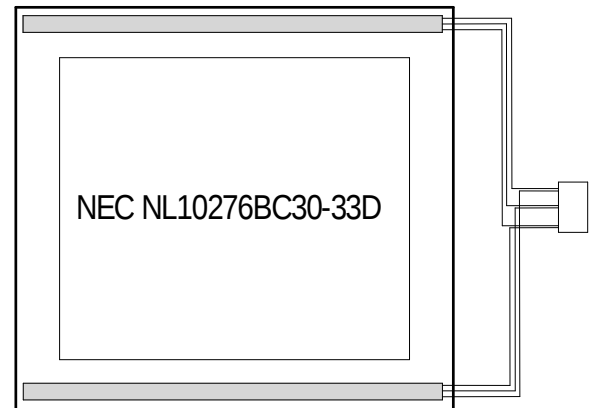
Performance at given brightness levels

1400 cd/m² with 15.75 watts LED power (Day)
10 cd/m² with 5.55 watts LED power (NVIS)

Display outline identical to standard CCFL equipped panel

For many applications, satisfies sunlight readability goals

08/19/15



LCD PANEL HIGHLIGHTS

15" TFT Active Matrix Color

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

XGA 1024 x 768 pixels, 16.7 M colors

500:1 typical contrast ratio

RoHS Compliant

72% color gamut (NTSC color space)

For complete LCD specification (standard panel), refer to the NEC NL10276BC30-33D datasheet

LED BACKLIGHT FEATURES

Day and NVIS LED edge-light rail

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

Projected lifetime > 75,000 hours

5,000:1 or better dimming ratio (Day)¹

¹ For best power transfer and control, use one ACI-2316 Dual Mode LED Driver.

MAXIMUM RATINGS

08/19/15

Symbol	Parameter	Value	Unit
Top ¹	Operating temperature of display (center of panel surface)	-30 to +85	Deg-C
Tled	Operating temperature of LED edge light (light rail contact)	-30 to +85	Deg-C
Tstg ¹	Display storage temperature	-20 to +60	Deg-C
Ifwd	LED forward current (Day)	45	mA
Ifwd	LED forward current (NVIS)	30	mA

*Maximum Ratings are those values beyond which damage may occur

¹ Per Manufacturer's Specification

PANEL/BACKLIGHT OPTICAL CHARACTERISTICS

Ifwd(Day) = 37.5mA per bank, 2 banks per rail, 2 rails per display, Ifwd(NVIS) = 25mA per bank, 1 bank per rail, 2 rails per display, LED rails: ACR-2249, Ta = +25Deg-C, LCD unpowered

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
Bpd	Panel Brightness (Day)		1260	1400	1540	cd/m ²
Bpn	Panel Brightness (NVIS)		9	10	11	cd/m ²
Xd	White X coordinate (Day mode)			0.262		-
Yd	White Y coordinate (Day mode)			0.294		-
XN	White X coordinate (NVIS)			0.314		-
YN	White Y coordinate (NVIS)			0.514		-

LED EDGE-LIGHT ELECTRICAL CHARACTERISTICS

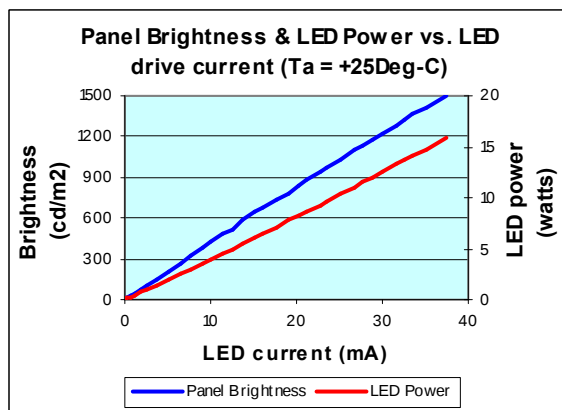
Ifwd(Day) = 37.5mA, Ifwd(NVIS) = 25mA, Top = +25Deg-C

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
Vfwd	LED rail forward voltage drop (Day mode)		95	105	115	Vdc
Vfwd	LED rail forward voltage drop (NVIS)		100	111	122	Vdc

TYPICAL LCD/LED BACKLIGHT PERFORMANCE GRAPHS

08/19/15

Day mode



NVIS

