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ACD-2577

PRODUCT DATA SHEET

07/31/15

24" WUXGA LED BACKLIT TFT DISPLAY

GENERAL DESCRIPTION

The ACD-2577 consists of the LG LM240WU8-SLA2 WUXGA TFT display modified with a high performance LED backlight.

Customer Consigned Panel

Performance at given brightness levels

500 cd/m² with 35.0 watts LED power

Display outline identical to standard LED equipped panel



LCD PANEL HIGHLIGHTS

24.1" TFT Active Matrix Color

24.1" diagonal viewable area (Aspect Ratio 16:10)

WUXGA 1920 x 1200 pixels, 16.7M colors

1000:1 typical contrast ratio

Display Mode Normally Black

For complete LCD specification (standard panel), refer to LG LM240WU8-SLA2 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, ACI recommends using one ACI-F077500-2659. Do not set the driver output current (Ifwd) higher than the value specified in the Maximum Ratings table of this document. Please contact the factory for more specific use LED driver solutions if required.

MAXIMUM RATINGS*

Symbol	Parameter	Value	Unit
Top ¹	Ambient Operating temperature of display (Free Air)	0 to +50	Deg-C
Tcs	Operating temperature of Panel Case (Bottom Center of Case)	0 to +65	Deg-C
Tstg ¹	Display storage temperature	-20 to +60	Deg-C
Tled	Operating temperature of LED edge light (light rail contact)	-30 to +85	Deg-C
Ifwd	LED forward current	100	mA

*Maximum Ratings are those values beyond which damage may occur

¹ Per Manufactures Specification

PANEL/BACKLIGHT OPTICAL CHARACTERISTICS

Ifwd = 83.3mA per bank, LED rail ACR-0706-2486, 6 banks per rail, 1 rail per display, Ta = +25Deg-C, moving air (36.0 CFM), min 2hr soak

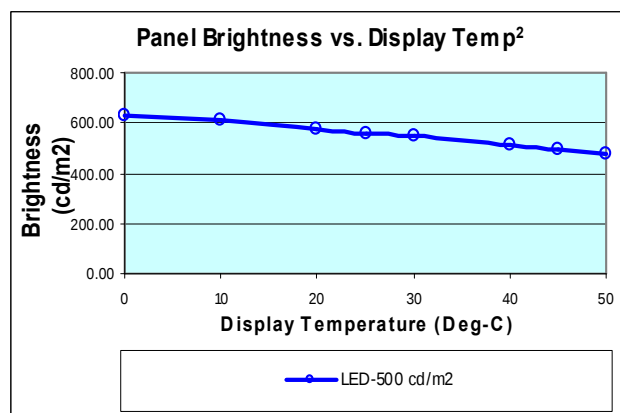
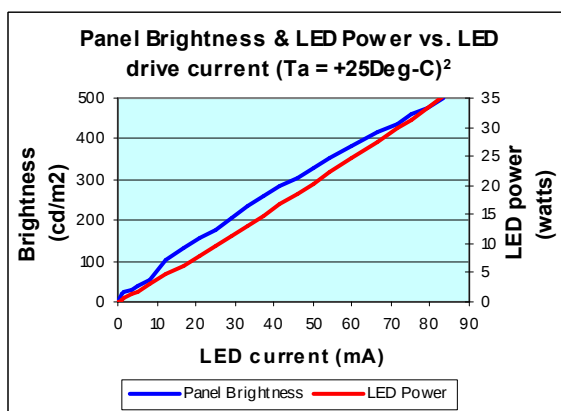
Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
Bp	Panel Brightness		450	500	550	cd/m ²
X	White X coordinate			0.278		-
Y	White Y coordinate			0.319		-

LED EDGE-LIGHT ELECTRICAL CHARACTERISTICS

Ifwd = 83.3mA per bank, 6 banks per rail, 1 rail per display, Top = +25Deg-C

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
Vfwd	LED rail forward voltage drop		63	70	77	Vdc

TYPICAL LCD/LED BACKLIGHT PERFORMANCE GRAPHS



² Moving air (36.0 CFM)