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ACD-LG240-2695

PRODUCT DATA SHEET

9/10/2015

24.1" WUXGA LED BACKLIT TFT DISPLAY

Sunlight Readability/1000:1 dimming/Cool operation

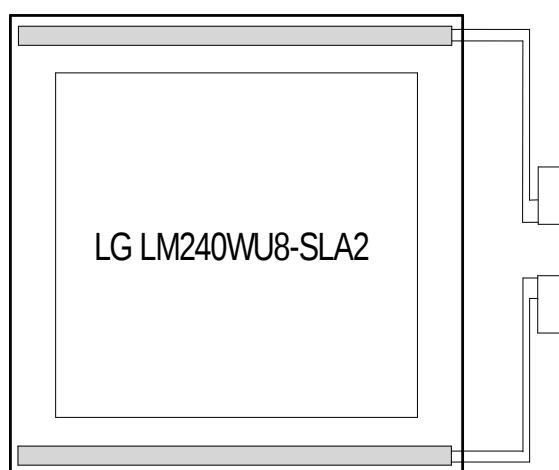
GENERAL DESCRIPTION

The ACD-LG240-2695 consists of LG LM240WU8-SLA2 WUXGA TFT display modified with a high performance LED backlight.

Performance at given brightness levels

1000 cd/m² with 62.1 watts LED power

Display outline identical to standard LED equipped panel



LCD PANEL HIGHLIGHTS

24.1" TFT Active Matrix Color

546.4 (H) mm x 352.0 (V) mm viewable area

WUXGA 1920 x 1200 pixels, 16.7M colors

1000:1 typical contrast ratio

82% color gamut (NTSC color space)

Display Mode Normally Black

For complete LCD specification (standard panel), refer to LG LM240WU8-SLA2 data sheet.

LED BACKLIGHT FEATURES

White LED edge-light rails

Two wire connection per rail (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 two ACI-E080450-2706 LED drivers. Do not set the drivers 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	Operating temperature of display (center of panel surface)	0 to +50	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	Maximum LED edge-light forward current (DC)	90	mA

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

¹ Per Manufacture's Specification

PANEL/BACKLIGHT OPTICAL CHARACTERISTICS

Ifwd = 75mA per bank, LED rail ACR-0706-2704(Top), 6 banks per rail. LED rail ACR-0706-2535(Bottom), 6 banks per rail. 2 rails per display, Ta = +25Deg-C, moving air (36.0 CFM), min 2hr soak

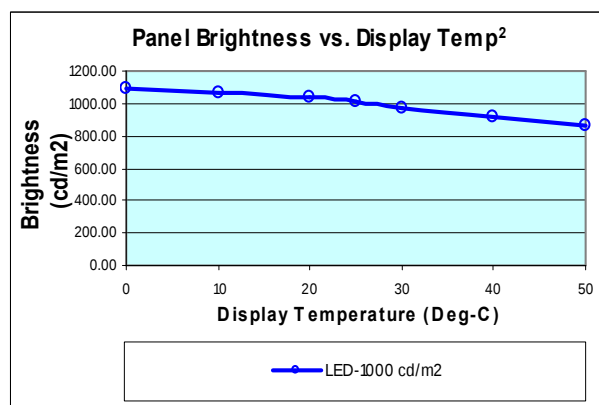
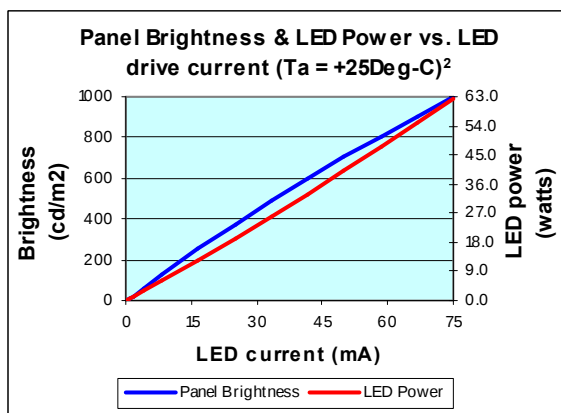
Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
Bp	Panel Brightness		900	1000	1100	cd/m ²
X	White X coordinate			0.302		-
Y	White Y coordinate			0.359		-

LED EDGE-LIGHT ELECTRICAL CHARACTERISTICS

Ifwd = 75mA per bank, 6 banks per rail, 2 rails per display, Top = +25Deg-C

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
Vfwd	LED rail forward voltage drop		62	69	76	Vdc

TYPICAL LCD/LED BACKLIGHT PERFORMANCE GRAPHS



² Moving air (36.0 CFM)