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# ACD-2597

## PRODUCT DATA SHEET

2/21/17

### 26" WUXGA LED BACKLIT TFT DISPLAY

#### GENERAL DESCRIPTION

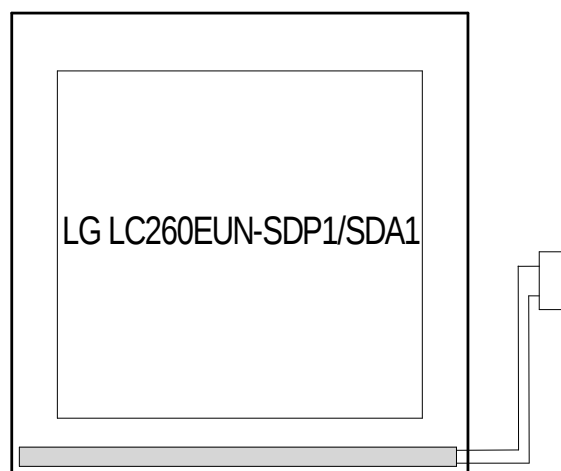
The ACD-2597 consists of the 26" LG LC260EUN-SDP1/LC260EUN-SDA1 WUXGA TFT display modified with a high performance LED backlight.

Customer Consigned Panel

#### Performance at given brightness levels

400 cd/m<sup>2</sup> with 41.3 watts LED power

Display outline identical to standard LED equipped panel



#### LCD PANEL HIGHLIGHTS

26" TFT Active Matrix Color

26.02" diagonal viewable area

WUXGA 1920 x 1080 pixels, 16.7M colors

1000:1 typical contrast ratio

Display Mode Normally Black

*For complete LCD specification (standard panel), refer to LG LC260EUN-SDP1/SDA1 data sheet.*

#### LED BACKLIGHT FEATURES

White LED edge-light rail

Two wire connection (Typically 11 inches long), allows simple interconnect with LED driver<sup>1</sup>

Projected lifetime > 75,000 hours

1000:1 or better dimming ratio, guaranteed<sup>1</sup>

<sup>1</sup> For best power transfer and control, ACI recommends using a 24V input driver, ACI-2612, due to power level of panel. 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    | 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   | 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                                           | 120        | mA    |

\*Maximum Ratings are those values beyond which damage may occur

\*\*Maximum temperature may be increased with proper heat sinking

#### PANEL/BACKLIGHT OPTICAL CHARACTERISTICS

Ifwd = 91.7mA per bank, LED rail ACR-0766-2586, 6 banks per rail, 1 rail per display, Ta = +25Deg-C, LCD powered

| Symbol | Parameter          | Test Conditions | Min | Typ   | Max | Unit              |
|--------|--------------------|-----------------|-----|-------|-----|-------------------|
| Bp     | Panel Brightness   |                 | 360 | 400   | 440 | cd/m <sup>2</sup> |
| X      | White X coordinate |                 |     | 0.268 |     | -                 |
| Y      | White Y coordinate |                 |     | 0.315 |     | -                 |

#### LED EDGE-LIGHT ELECTRICAL CHARACTERISTICS

Ifwd = 91.7mA 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 |                 | 67  | 75  | 83  | Vdc  |

#### TYPICAL LCD/LED BACKLIGHT PERFORMANCE GRAPHS

