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## 18.1" SXGA LED BACKLIT TFT DISPLAY

1000:1 dimming/Cool operation

### GENERAL DESCRIPTION

The ACD-2608 consists of the Sharp LQ181E1LW31 18.1" SXGA TFT display modified with a high performance LED backlight.

Customer Consigned Panel.

#### Performance at given brightness levels

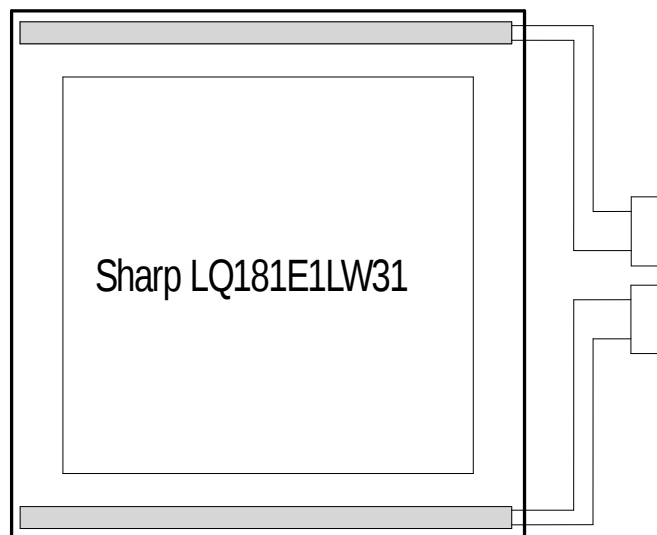
900 cd/m<sup>2</sup> with 86.3 watts LED power

Display outline identical to standard CCFL equipped panel

# ACD-2608

## PRODUCT DATA SHEET

12/18/14



### LCD PANEL HIGHLIGHTS

18.1" TFT Active Matrix Color

359.0 (H) mm x 287.2 (V) mm viewable area

SXGA 1280 x 1024 pixels, 16.2M colors

400:1 typical contrast ratio

Display Mode Normally Black

*For complete LCD specification (standard panel), refer to Sharp LQ181E1LW31 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, use ACI-F100440-2611 LED drivers. Two drivers required. One for top rail and one for bottom rail.

#### MAXIMUM RATINGS\*

| Symbol | Parameter                                                    | Value      | Unit  |
|--------|--------------------------------------------------------------|------------|-------|
| Top    | 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   | Display storage temperature                                  | -25 to +60 | Deg-C |
| Ifwd   | Maximum LED edge-light forward current (DC)                  | 88         | mA    |

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

#### PANEL/BACKLIGHT OPTICAL CHARACTERISTICS

Ifwd = 73.3mA per bank, LED rail ACR-0966-2607, 6 banks per rail, 2 rails per display, Ta = +25Deg-C, LCD powered

| Symbol | Parameter          | Test Conditions | Min | Typ   | Max | Unit              |
|--------|--------------------|-----------------|-----|-------|-----|-------------------|
| Bp     | Panel Brightness   |                 | 810 | 900   | 990 | cd/m <sup>2</sup> |
| X      | White X coordinate |                 |     | 0.255 |     | -                 |
| Y      | White Y coordinate |                 |     | 0.264 |     | -                 |

#### LED EDGE-LIGHT ELECTRICAL CHARACTERISTICS

Ifwd = 73.3mA 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 |                 | 88  | 98  | 108 | Vdc  |

#### TYPICAL LCD/LED BACKLIGHT PERFORMANCE GRAPHS

