



Backlight vs Frontlight Competitive Analysis

3.4" Transflective MIP Color Display



Native Display Specs

Display Type	3.4" Transflective
LCD Structure	LTPS - Memory in Pixel (MIP)
Color	64 Color
Resolution	272 x 451 pixels
Contrast Ratio	20
Color Gamut (NTSC)	19%
Reflectance	10%
Transmittance	1%



Competitor Lighting:

Back Light Unit (BLU) Bike Computer

Azumo Lighting:

LCD 2.0 Front Light Panel (FLP)

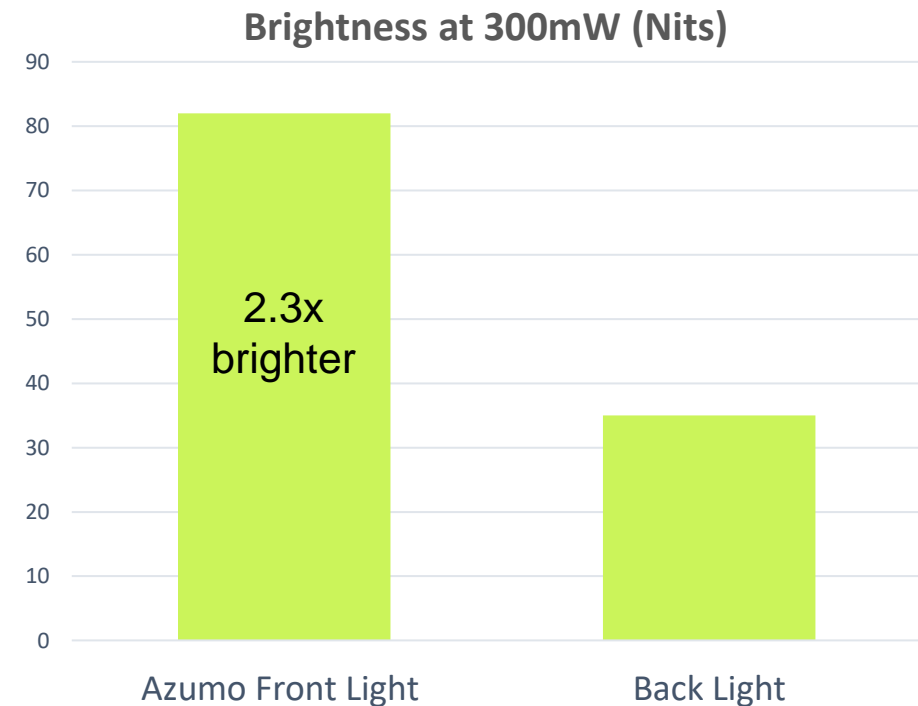
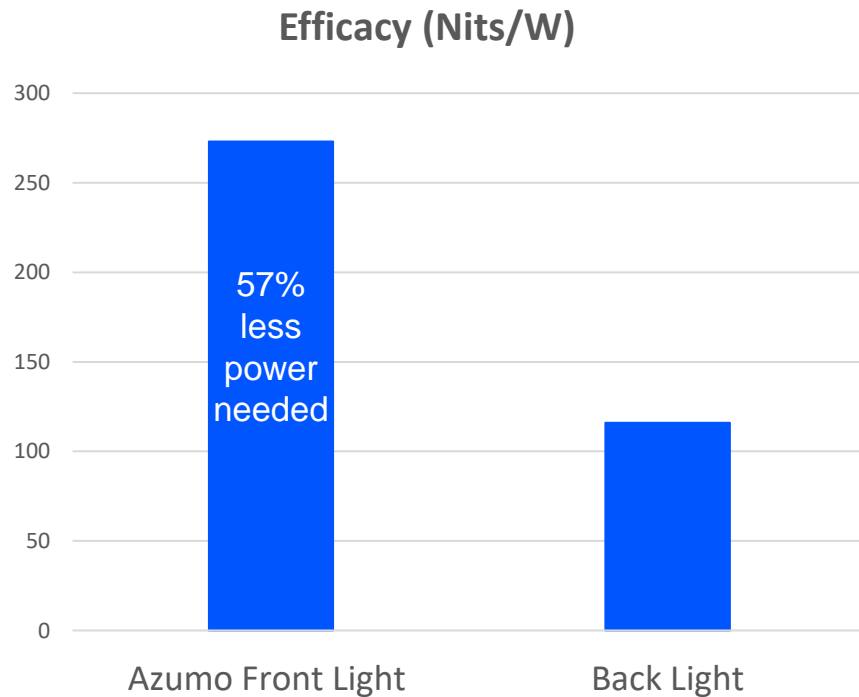
Test Equipment:

Eldim EZ Contrast (Model # XL88)

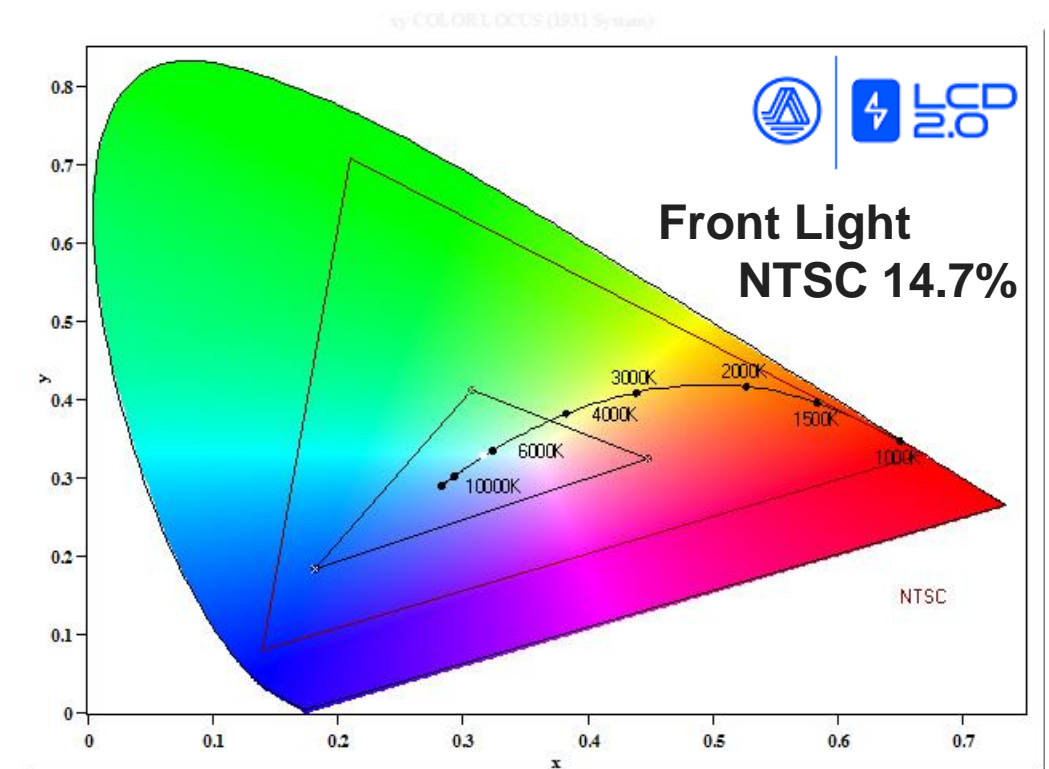
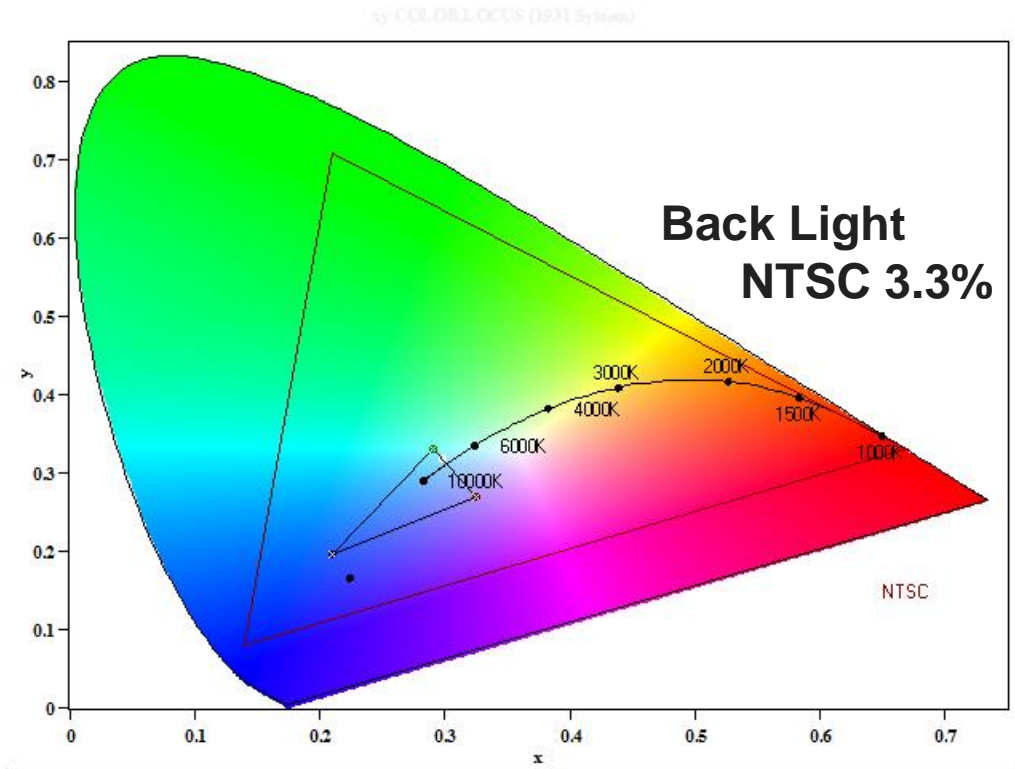


Brightness and Power

	Azumo Front Light (FLP)	Back Light
Brightness at 300mW	82 Nits	35 Nits
Brightness Efficacy	273 [Nits/Watt]	116 [Nits/Watt]



Color Gamut

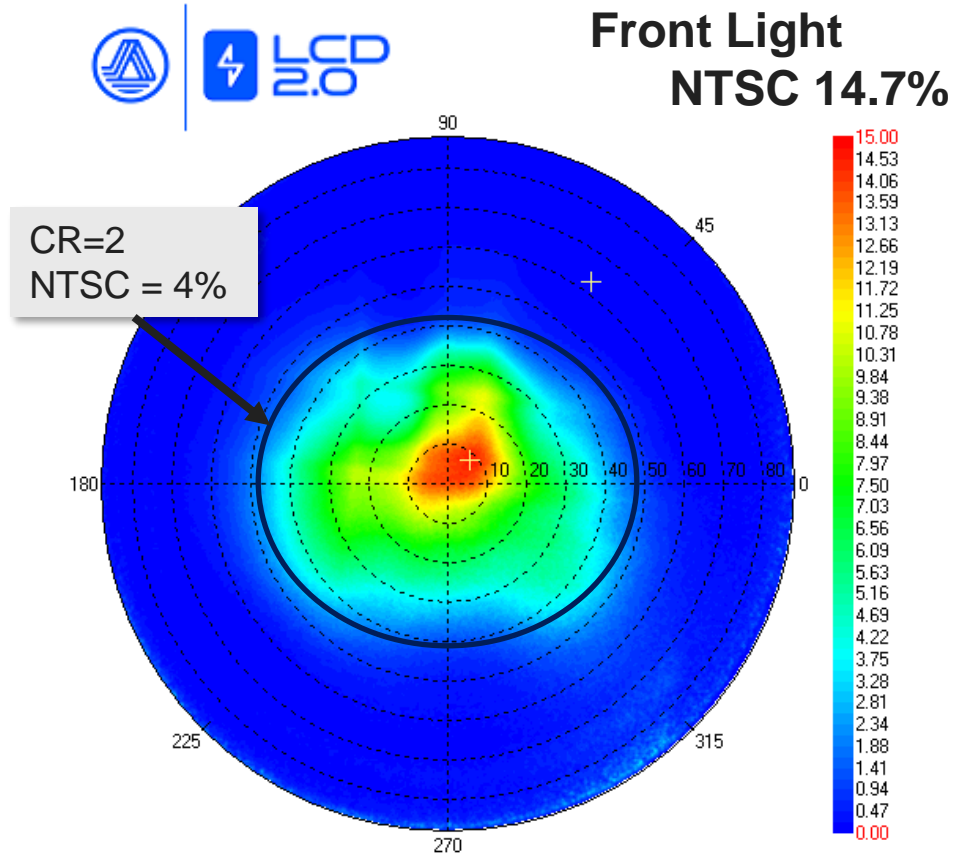
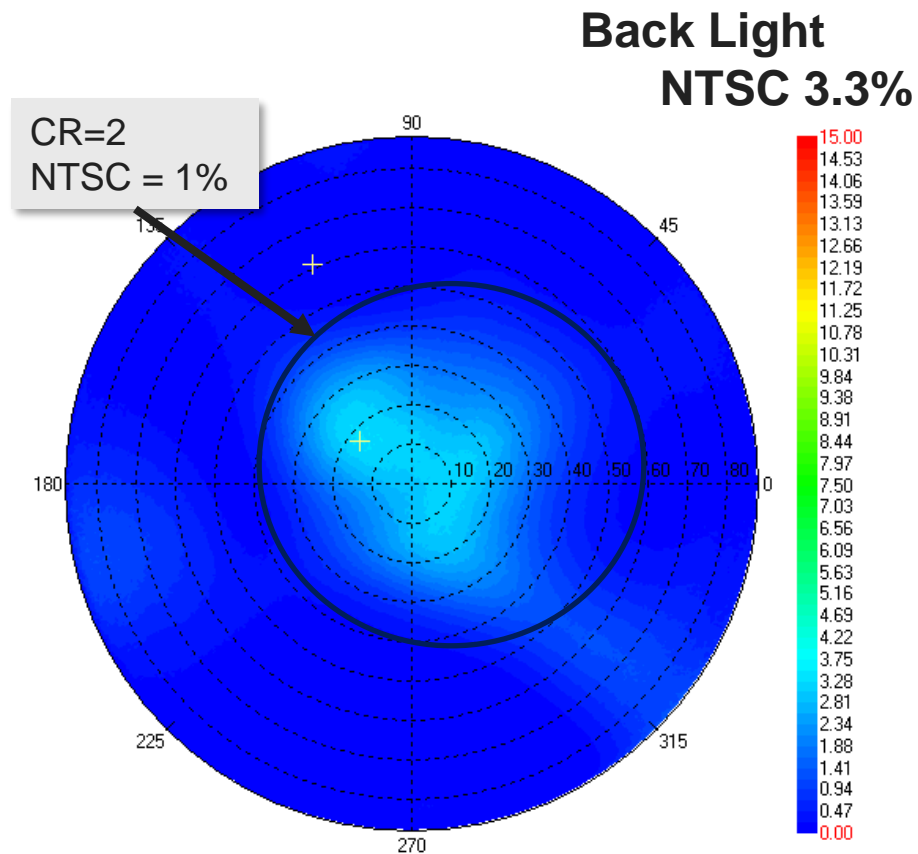


LCD 2.0 = 4.5x Greater Color Gamut



Color Gamut vs Angle

LCD 2.0 has better color at the edges of viewability (CR=2) than BLU's viewed straight on



LCD 2.0 has more consistent viewing angles and superior color throughout



Azumo Front Light is **the better choice** for Transflective displays

The LCD 2.0 Difference

Azumo FLP has significant advantages over BLU in Color, Brightness, and Power consumption

~4.5x Greater NTSC%
14.7% vs 3.3%

Color Gamut (NTSC)

Better NTSC% at the edge of
viewability than BLU at normal

Color over Angle

2.3x Brighter at 300 mW
82 Nits vs 35 Nits

Brightness

57% less power consumption
at equivalent brightness

Efficacy

**Contact Azumo
to learn more about LCD 2.0**

[Request a Demo](#)