

Display Model Number 993: AR Film Overlay

993 - G190EG01V1 Photometric data	Dark Room Data			Sunlight Condition MIL-STD-3009				LED Backlight Data			NVIS (MIL-L-3009)		All tests performed at 25° C ambient	
	Luminance ² (Nits)	Luminance ³ (Nits)	Contrast Ratio	Weber Contrast	Contrast Ratio	Direct Sunlight Only ⁴ Contrast	Display Class (0-6)	Rail Temperature °C	Power (Watts)	LED MTBF (Hours)	U', V'	Error Radius		NVIS Radiance B (mW/cm ² /sr)
OEM Performance ¹ (No modifications)	350	1000	-	-	-	-	-	12.00	-	-	-	-	-	All tests performed at 25° C ambient
OEM Brightness	360	397	554	2.29	3.29	5.07	Class 3	28.80	4.84	-	0.294, 0.423	0.04	0.80	
OEM Power	906	949	621	5.15	6.15	8.78	Class 5	45.50	14.88	-				
1000 Nits	1070	1160	709	5.63	6.63	9.19	Class 5	55.60	17.57	-				
50° C Rail Temperature ⁵	948	1094	641	5.52	6.52	9.04	Class 5	50.50	16.62	-				

Display Model Number 993-1: No overlays

	Dark Room Data			Sunlight Condition MIL-STD-3009				LED Backlight Data			NVIS (MIL-L-3009)		All tests performed at 25° C ambient	
	Luminance ² (Nits)	Luminance ³ (Nits)	Contrast Ratio	Weber Contrast	Contrast Ratio	Direct Sunlight Only ⁴ Contrast	Display Class (0-6)	Rail Temperature °C	Power (Watts)	LED MTBF (Hours)	U', V'	Error Radius		NVIS Radiance B (mW/cm ² /sr)
OEM Performance ¹ (No modifications)	350	1000	-	-	-	-	-	-	-	-	-	-	-	All tests performed at 25° C ambient
OEM Brightness	344	397	662	0.75	1.75	1.53	Class 1	28.80	4.84	-	0.294, 0.423	0.04	0.80	
OEM Power	889	1030	649	1.59	2.59	1.94	Class 2	45.10	14.88	-				
1000 Nits	1002	1130	701	1.77	2.77	2.04	Class 2	55.60	18.01	-				
50° C Rail Temperature ⁵	944	1095	679	1.68	2.68	1.98	Class 2	50.50	16.62	-				

- 1 Based on LCD manufacturer's published specifications for OEM configuration
- 2 Video controller black level and contrast set to 50/50, respectively, for optimal brightness/contrast performance
- 3 Video controller black level and contrast set to 100/100 (not optimal operating condition)
- 4 Simulates direct sunlight interaction ONLY
- 5 May require active and/or passive cooling to prevent LCD from overheating; speak with Application Engineer for consultation

Display Model Number 993-2: AR/AG Film Overlay

	Dark Room Data			Sunlight Condition MIL-STD-3009				LED Backlight Data			NVIS (MIL-L-3009)		
	Luminance ² (Nits)	Luminance ³ (Nits)	Contrast Ratio	Weber Contrast	Contrast Ratio	Direct Sunlight Only ⁴ Contrast	Display Class (0-6)	Rail Temperature °C	Power (Watts)	LED MTBF (Hours)	U', V'	Error Radius	NVIS Radiance B (mw/cm ² /sr)
OEM Performance ¹ (No modifications)	350	1000	-	-	-	-	-	-	-	-	-	-	-
OEM Brightness	355	391	645	2.40	3.40	3.44	Class 3	28.80	4.84	-	0.294, 0.423	0.04	0.80
OEM Power	873	1020	661	5.40	6.40	6.08	Class 5	45.60	14.88	-			
1000 Nits	1010	1150	660	5.92	6.92	6.43	Class 5	55.60	17.78	-			
50° C Rail Temperature ⁵	939	1095	648	5.70	6.70	6.33	Class 5	50.40	16.62	-			

All tests performed at 25° C ambient

Display Model Number:

- 1 Based on LCD manufacturer's published specifications for OEM configuration
- 2 Video controller black level and contrast set to 50/50, respectively, for optimal brightness/contrast performance
- 3 Video controller black level and contrast set to 100/100 (not optimal operating condition)
- 4 Simulates direct sunlight interaction ONLY
- 5 May require active and/or passive cooling to prevent LCD from overheating; speak with Application Engineer for consultation