

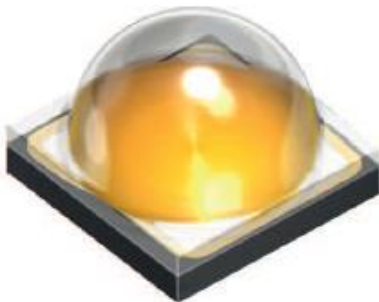
Light is OSRAM

OSRAM
Opto Semiconductors

OSLON® Square White (CCT 2700 K – 6500 K)

IES LM-80-15 Test Report

Test Documentation No.: 190146W10 (Document No.: OSRM027-2-E3-300) – 5th May 2021



LM-80 25000 Hour Interval Test Report

IES LM-80-15 Approved Method for Measuring Lumen Maintenance of LED Light Sources

CSA Group Report: OSRM027-2-E3-300

April 16, 2021

Manufacturer: **OSRAM**
Models tested: **GW CSSRM2.EM**
OSLON Square
Test conditions: 24 devices @ 55.0 C, 1.050 A
24 devices @ 85.0 C, 1.050 A
24 devices @ 105.0 C, 1.050 A

Prepared for:
OSRAM Opto Semiconductors (Malaysia) Sdn.
Bayan Lepas Free Industrial Zone Phase 1,
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Attn:

Test report prepared by:

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Project Manager,
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1.0 Statement of test conditions, summary of results, and reporting requirements:

Part number: GW CSSRM2.EM						
Life test conditions				Summary of results		
Test condition	Drive current (A)	Case temperature (°C)	Elapsed life test time (hrs)	Avg. PPF maint. (%)	Average lumen maint. (%)	Avg. chromatic. shift ($\Delta u'v'$)
TC1	1.050	55	25000	99.6	100.0	0.0014
TC2	1.050	85	25000	99.0	99.6	0.0016
TC3	1.050	105	25000	97.3	98.1	0.0021
LM-80-15 Reporting requirements						
1. Number of samples tested:			24 per test condition			
2. Description of LED light sources			LED Package ¹			
3. Description of auxiliary equipment			see section 6.1 below			
4. Operating cycle			LED packages are driven at constant current for life test and are pulsed for photometric test.			
5. Ambient conditions, airflow, relative humidity			LED's are operated on controlled thermal plates in an environment that complies with the requirements given in Section 4.4 of LM-80-15. Case temperature (Ts): controlled to within -2°C, Surrounding air temp: controlled to within -5°C of Ts, Humidity: < 65 RH, No forced air flow			
6. Case temperature (test point temperature)			See summary table above for test conditions. The temperature measurement point is shown in Sec. 6.3.			
7. Drive current during life test			see summary table above			
8. Initial luminous flux and forward voltage			see data tables for individual test conditions			
9. Lumen maintenance data for each individual LED light source			see data tables for individual test conditions			
10. Observation of LED light source failures			see data tables for individual test conditions			
11. LED light source monitoring intervals			see data tables for individual test conditions			
12. Photometric measurement uncertainty			k=2 expanded measurement uncertainty for relative luminous flux measurements is $\pm 2.0\%$			
13. Chromaticity shift reported over the measurement time			see data tables for individual test conditions			
14. Test start date			November 10, 2017			
15. ANSI target and calculated CCT values			see data tables			

Notes:

- per ANSI/IESNA RP-16-05 Addendum b, *Nomenclature and Definitions for Illuminating Engineering*

TABLE 1.1 - Initial ANSI Target & Calculated CCT Results

GW CSSRM2.EM

Load board ID	Device number	Zero hour measurements		Load board ID	Device number	Zero hour measurements		Load board ID	Device number	Zero hour measurements	
		ANSI Target* CCT (K)	Initial Calculated CCT (K)			ANSI Target* CCT (K)	Initial Calculated CCT (K)			ANSI Target* CCT (K)	Initial Calculated CCT (K)
18000010849B031C	D1	3465±245	3388	5B00001073C7031C	D1	3465±245	3461	1300001078A6031C	D1	3465±245	3413
	D2	3465±245	3486		D2	3465±245	3429		D2	3465±245	3459
	D3	3465±245	3475		D3	3465±245	3369		D3	3465±245	3454
	D4	3465±245	3427		D4	3465±245	3400		D4	3465±245	3478
	D5	3465±245	3448		D5	3465±245	3451		D5	3465±245	3430
	D6	3465±245	3425		D6	3465±245	3407		D6	3465±245	3427
	D7	3465±245	3490		D7	3465±245	3495		D7	3465±245	3389
	D8	3465±245	3498		D8	3465±245	3440		D8	3465±245	3479
	D9	3465±245	3416		D9	3465±245	3477		D9	3465±245	3479
	D10	3465±245	3471		D10	3465±245	3458		D10	3465±245	3421
	D11	3465±245	3471		D11	3465±245	3478		D11	3465±245	3392
	D12	3465±245	3415		D12	3465±245	3482		D12	3465±245	3496
5900001077DC031C	D1	3465±245	3467	960000108055031C	D1	3465±245	3504	DE00001081CE031C	D1	3465±245	3604
	D2	3465±245	3446		D2	3465±245	3464		D2	3465±245	3458
	D3	3465±245	3407		D3	3465±245	3379		D3	3465±245	3408
	D4	3465±245	3393		D4	3465±245	3446		D4	3465±245	3400
	D5	3465±245	3450		D5	3465±245	3461		D5	3465±245	3437
	D6	3465±245	3446		D6	3465±245	3513		D6	3465±245	3498
	D7	3465±245	3441		D7	3465±245	3476		D7	3465±245	3408
	D8	3465±245	3428		D8	3465±245	3448		D8	3465±245	3467
	D9	3465±245	3430		D9	3465±245	3452		D9	3465±245	3535
	D10	3465±245	3484		D10	3465±245	3490		D10	3465±245	3528
	D11	3465±245	3458		D11	3465±245	3460		D11	3465±245	3580
	D12	3465±245	3459		D12	3465±245	3403		D12	3465±245	3438

* target CCT as defined in ANSI C78.377-2008

Test Condition 1 55 °C 1.050 A														
TABLE 2.0 - LUMEN MAINTENANCE RESULTS														GW CSSRM2.EM
Test Condition 1 55 °C 1.050 A														
Load board ID	Device number	Zero hour measurements		Photometric test drive current: 1.050 A Photometric test ambient temperature: 25 ± 2 °C Failures observed: none										
		Flux (lm)	Vf (V)	Lumen Maintenance (%)										
				1000	2000	3000	4000	5000	6000	7000	8000	9000	10000	11000
18000010849B031C	D1	382.55	3.51	101.4	101.3	101.3	101.4	101.3	101.3	101.3	101.3	101.3	101.4	101.4
	D2	394.59	3.44	99.8	99.6	99.5	99.5	99.4	99.4	99.5	99.4	99.5	99.6	99.6
	D3	393.31	3.52	100.4	100.2	100.2	100.1	100.0	100.0	100.0	100.0	100.1	100.2	100.1
	D4	389.11	3.51	100.8	100.8	100.8	100.8	100.8	100.7	100.8	100.8	101.0	101.0	101.0
	D5	388.77	3.63	100.8	100.7	100.7	100.7	100.6	100.6	100.6	100.6	100.7	100.8	100.7
	D6	390.51	3.55	99.4	99.2	99.3	99.2	99.1	99.0	99.1	99.0	99.1	99.2	99.1
	D7	394.50	3.53	100.0	99.8	99.8	99.8	99.7	99.7	99.6	99.7	99.8	99.9	99.9
	D8	391.57	3.51	99.5	99.3	99.2	99.2	99.0	99.0	99.0	99.0	99.0	99.1	99.0
	D9	391.72	3.63	100.9	100.8	100.8	100.9	100.8	100.8	100.8	100.8	100.9	101.0	100.9
	D10	391.91	3.66	100.4	100.2	100.1	100.1	100.0	99.9	99.9	99.9	100.0	100.1	100.0
	D11	394.32	3.56	99.9	99.7	99.6	99.6	99.5	99.4	99.4	99.4	99.5	99.6	99.5
	D12	388.79	3.61	101.0	100.9	100.9	100.9	100.9	100.9	100.9	100.9	101.1	101.2	101.1
5900001077DC031C	D1	390.00	3.42	100.9	100.9	100.9	101.0	100.8	100.8	100.9	100.9	100.9	101.1	101.0
	D2	396.48	3.41	99.9	99.9	99.9	99.9	99.7	99.7	99.7	99.8	99.9	100.0	100.0
	D3	381.95	3.55	101.1	101.1	101.1	101.1	101.0	100.9	100.9	101.0	101.1	101.2	101.2
	D4	379.67	3.56	101.2	101.2	101.2	101.3	101.2	101.2	101.2	101.3	101.3	101.5	101.5
	D5	390.88	3.55	100.0	100.0	100.0	100.0	99.9	99.9	99.9	99.9	100.0	100.1	100.0
	D6	389.40	3.64	100.4	100.2	100.1	100.1	99.9	99.9	99.9	99.9	100.0	100.1	100.0
	D7	390.30	3.51	100.2	100.2	100.2	100.2	100.1	100.1	100.1	100.1	100.3	100.4	100.4
	D8	385.75	3.59	100.7	100.8	100.8	100.8	100.8	100.7	100.8	100.8	100.9	101.1	101.1
	D9	392.72	3.61	100.3	100.3	100.3	100.4	100.3	100.3	100.3	100.3	100.4	100.5	100.5
	D10	393.11	3.56	100.5	100.5	100.6	100.6	100.5	100.4	100.5	100.5	100.6	100.7	100.7
	D11	392.90	3.58	100.3	100.3	100.3	100.3	100.2	100.2	100.2	100.2	100.4	100.5	100.5
	D12	387.55	3.50	100.0	100.0	100.0	100.0	99.9	99.8	99.8	99.9	100.0	100.1	100.0
n mean median std. dev. min max				24	24	24	24	24	24	24	24	24	24	24
				100.4	100.3	100.3	100.3	100.2	100.2	100.2	100.2	100.3	100.4	100.4
				100.4	100.3	100.3	100.3	100.2	100.1	100.2	100.2	100.3	100.4	100.4
				0.5	0.6	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.7	0.7
				99.4	99.2	99.2	99.2	99.0	99.0	99.0	99.0	99.0	99.1	99.0
				101.4	101.3	101.3	101.4	101.3	101.3	101.3	101.3	101.3	101.5	101.5

Test Condition 1				55 °C		1.050 A								
TABLE 2.0 - LUMEN MAINTENANCE RESULTS													GW CSSRM2.EM	
Test Condition 1				55 °C		1.050 A								
Load board ID	Device number	Zero hour measurements		Photometric test drive current: 1.050 A Photometric test ambient temperature: 25 ± 2 °C Failures observed: none										
		Flux (lm)	Vf (V)	Lumen Maintenance (%)										
				12000	13000	14000	15000	16000	17000	18000	19000	20000	21000	22000
18000010849B031C	D1	382.55	3.51	101.4	101.4	101.5	101.5	101.4	101.5	101.6	101.3	101.2	101.1	101.2
	D2	394.59	3.44	99.6	99.6	99.6	99.7	99.6	99.6	99.7	99.5	99.4	99.4	99.3
	D3	393.31	3.52	100.1	100.1	100.2	100.2	100.1	100.1	100.2	100.0	99.9	99.8	99.8
	D4	389.11	3.51	101.0	101.1	101.1	101.1	101.1	101.2	101.3	101.0	101.0	100.9	100.9
	D5	388.77	3.63	100.8	100.8	100.8	100.8	100.7	100.8	100.9	100.7	100.6	100.5	100.6
	D6	390.51	3.55	99.1	99.1	99.1	99.1	99.0	99.0	99.2	98.9	98.8	98.7	98.7
	D7	394.50	3.53	99.9	99.9	100.0	100.0	99.9	99.9	100.1	99.8	99.7	99.6	99.6
	D8	391.57	3.51	99.0	99.0	99.0	99.0	98.8	98.9	99.0	98.7	98.6	98.6	98.6
	D9	391.72	3.63	101.0	100.9	101.1	101.0	100.9	101.0	101.2	100.9	100.8	100.7	100.8
	D10	391.91	3.66	100.0	100.1	100.1	100.1	100.0	100.1	100.1	99.9	99.8	99.8	99.8
	D11	394.32	3.56	99.5	99.6	99.6	99.6	99.5	99.6	99.7	99.4	99.3	99.2	99.3
	D12	388.79	3.61	101.1	101.2	101.2	101.2	101.1	101.2	101.4	101.1	101.0	100.9	100.9
5900001077DC031C	D1	390.00	3.42	101.0	101.0	101.1	101.1	101.0	101.1	101.2	101.0	100.9	100.9	101.0
	D2	396.48	3.41	100.0	100.0	100.0	100.0	99.9	100.0	100.2	99.9	99.8	99.7	99.7
	D3	381.95	3.55	101.2	101.2	101.2	101.1	101.1	101.2	101.4	101.1	101.0	100.9	100.9
	D4	379.67	3.56	101.5	101.5	101.6	101.6	101.5	101.6	101.7	101.4	101.3	101.3	101.2
	D5	390.88	3.55	100.1	100.1	100.1	100.1	100.1	100.1	100.3	100.0	99.9	99.9	99.9
	D6	389.40	3.64	100.1	100.0	100.1	100.0	99.9	100.0	100.2	99.8	99.8	99.7	99.7
	D7	390.30	3.51	100.4	100.3	100.4	100.3	100.3	100.4	100.5	100.3	100.2	100.1	100.1
	D8	385.75	3.59	101.0	101.1	101.1	101.1	101.0	101.2	101.3	101.0	100.9	100.8	100.9
	D9	392.72	3.61	100.5	100.5	100.6	100.6	100.5	100.6	100.7	100.4	100.4	100.3	100.3
	D10	393.11	3.56	100.6	100.6	100.7	100.6	100.5	100.6	100.8	100.5	100.4	100.4	100.4
	D11	392.90	3.58	100.5	100.4	100.5	100.5	100.4	100.5	100.7	100.4	100.3	100.2	100.3
	D12	387.55	3.50	100.0	100.0	100.0	100.0	99.9	100.0	100.1	99.8	99.7	99.6	99.6
n mean median std. dev. min max				24	24	24	24	24	24	24	24	24	24	24
				100.4	100.4	100.4	100.4	100.3	100.4	100.6	100.3	100.2	100.1	100.1
				100.4	100.4	100.5	100.4	100.4	100.5	100.6	100.3	100.2	100.2	100.2
				0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.8	0.8
				99.0	99.0	99.0	99.0	98.8	98.9	99.0	98.7	98.6	98.6	98.6
				101.5	101.5	101.6	101.6	101.5	101.6	101.7	101.4	101.3	101.3	101.2

Test Condition 1 55 °C 1.050 A													
TABLE 2.0 - LUMEN MAINTENANCE RESULTS													GW CSSRM2.EM
Test Condition 1 55 °C 1.050 A													
Load board ID	Device number	Zero hour measurements		Photometric test drive current: 1.050 A Photometric test ambient temperature: 25 ± 2 °C Failures observed: none									
		Flux (lm)	Vf (V)	Lumen Maintenance (%)									
				23000	24000	25000							
18000010849B031C	D1	382.55	3.51	101.1	101.0	101.0							
	D2	394.59	3.44	99.3	99.2	99.2							
	D3	393.31	3.52	99.8	99.6	99.7							
	D4	389.11	3.51	100.8	100.7	100.8							
	D5	388.77	3.63	100.5	100.4	100.4							
	D6	390.51	3.55	98.6	98.5	98.5							
	D7	394.50	3.53	99.6	99.5	99.5							
	D8	391.57	3.51	98.5	98.4	98.4							
	D9	391.72	3.63	100.7	100.6	100.6							
	D10	391.91	3.66	99.7	99.6	99.6							
	D11	394.32	3.56	99.2	99.1	99.1							
	D12	388.79	3.61	100.8	100.7	100.8							
5900001077DC031C	D1	390.00	3.42	100.9	100.8	100.8							
	D2	396.48	3.41	99.7	99.6	99.6							
	D3	381.95	3.55	100.8	100.7	100.8							
	D4	379.67	3.56	101.2	101.1	101.1							
	D5	390.88	3.55	99.9	99.8	99.8							
	D6	389.40	3.64	99.6	99.5	99.6							
	D7	390.30	3.51	100.0	99.9	100.0							
	D8	385.75	3.59	100.8	100.7	100.8							
	D9	392.72	3.61	100.3	100.2	100.2							
	D10	393.11	3.56	100.3	100.2	100.3							
	D11	392.90	3.58	100.1	100.0	100.1							
	D12	387.55	3.50	99.5	99.4	99.4							
n mean median std. dev. min max				24	24	24							
				100.1	100.0	100.0							
				100.1	100.0	100.1							
				0.8	0.8	0.8							
				98.5	98.4	98.4							
				101.2	101.1	101.1							

Test Condition 1 55 °C 1.050 A														
TABLE 2.1 - RADIANT FLUX MAINTENANCE RESULTS														GW CSSRM2.EM
Test Condition 1 55 °C 1.050 A														
Load board ID	Device number	Zero hour measurements		Photometric test drive current: 1.050 A Photometric test ambient temperature: 25 ± 2 °C Failures observed: none										
		Flux (W)	VF (V)	Radiant Flux Maintenance (%)										
				1000	2000	3000	4000	5000	6000	7000	8000	9000	10000	11000
18000010849B031C	D1	1.1597	3.51	101.1	100.9	100.9	100.9	100.7	100.7	100.7	100.7	100.7	100.8	100.8
	D2	1.1948	3.44	99.7	99.5	99.4	99.4	99.3	99.2	99.3	99.2	99.3	99.4	99.4
	D3	1.1921	3.52	100.4	100.1	100.1	100.0	99.8	99.8	99.8	99.8	99.9	100.0	99.9
	D4	1.1784	3.51	100.8	100.7	100.7	100.7	100.5	100.5	100.6	100.6	100.7	100.8	100.7
	D5	1.1789	3.63	100.7	100.5	100.5	100.5	100.3	100.3	100.3	100.3	100.3	100.5	100.4
	D6	1.1791	3.55	99.3	99.1	99.1	99.0	98.9	98.8	98.8	98.7	98.8	99.0	98.9
	D7	1.1914	3.53	99.8	99.7	99.6	99.6	99.5	99.4	99.4	99.4	99.5	99.7	99.6
	D8	1.1827	3.51	99.4	99.2	99.1	99.0	98.9	98.8	98.8	98.7	98.8	98.9	98.8
	D9	1.1820	3.63	100.8	100.7	100.7	100.7	100.6	100.5	100.5	100.5	100.6	100.7	100.6
	D10	1.1847	3.66	100.3	100.1	100.0	99.9	99.7	99.6	99.7	99.6	99.7	99.8	99.7
	D11	1.1914	3.56	99.9	99.6	99.5	99.5	99.3	99.2	99.2	99.3	99.3	99.4	99.3
	D12	1.1829	3.61	100.8	100.7	100.7	100.7	100.6	100.6	100.6	100.6	100.7	100.8	100.8
5900001077DC031C	D1	1.1786	3.42	100.7	100.7	100.7	100.8	100.6	100.5	100.6	100.6	100.7	100.7	100.7
	D2	1.1978	3.41	99.9	99.8	99.8	99.8	99.6	99.5	99.6	99.6	99.7	99.8	99.8
	D3	1.1583	3.55	101.0	101.0	101.0	100.9	100.8	100.7	100.8	100.8	100.9	101.0	101.0
	D4	1.1476	3.56	101.1	101.1	101.0	101.0	100.9	100.9	100.9	101.0	101.0	101.2	101.2
	D5	1.1853	3.55	100.0	99.8	99.8	99.8	99.7	99.6	99.7	99.6	99.8	99.8	99.8
	D6	1.1842	3.64	100.3	100.0	99.9	99.8	99.6	99.6	99.6	99.6	99.7	99.8	99.7
	D7	1.1780	3.51	100.2	100.2	100.1	100.1	100.0	99.9	100.0	100.0	100.1	100.2	100.1
	D8	1.1698	3.59	100.7	100.7	100.6	100.7	100.6	100.5	100.6	100.6	100.7	100.8	100.8
	D9	1.1894	3.61	100.2	100.2	100.2	100.2	100.1	100.0	100.1	100.1	100.2	100.2	100.2
	D10	1.1897	3.56	100.4	100.4	100.4	100.4	100.3	100.2	100.2	100.2	100.4	100.4	100.4
	D11	1.1907	3.58	100.2	100.2	100.2	100.2	100.0	100.0	100.0	100.0	100.1	100.2	100.2
	D12	1.1733	3.50	99.9	99.9	99.9	99.8	99.7	99.6	99.6	99.6	99.7	99.8	99.8
n mean median std. dev. min max				24	24	24	24	24	24	24	24	24	24	24
				100.3	100.2	100.2	100.1	100.0	99.9	100.0	100.0	100.1	100.2	100.1
				100.3	100.2	100.1	100.1	100.0	99.9	100.0	100.0	100.1	100.2	100.2
				0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.7
				99.3	99.1	99.1	99.0	98.9	98.8	98.8	98.7	98.8	98.9	98.8
				101.1	101.1	101.0	101.0	100.9	100.9	100.9	101.0	101.0	101.2	101.2

Test Condition 1 55 °C 1.050 A														
TABLE 2.1 - RADIANT FLUX MAINTENANCE RESULTS														GW CSSRM2.EM
Test Condition 1 55 °C 1.050 A														
Load board ID	Device number	Zero hour measurements		Photometric test drive current: 1.050 A Photometric test ambient temperature: 25 ± 2 °C Failures observed: none										
		Flux (W)	VF (V)	Radiant Flux Maintenance (%)										
				12000	13000	14000	15000	16000	17000	18000	19000	20000	21000	22000
18000010849B031C	D1	1.1597	3.51	100.7	100.7	100.8	100.8	100.7	100.8	100.8	100.6	100.5	100.4	100.4
	D2	1.1948	3.44	99.3	99.3	99.3	99.4	99.3	99.4	99.4	99.2	99.1	99.1	99.0
	D3	1.1921	3.52	99.8	99.8	99.9	99.9	99.8	99.9	99.9	99.8	99.6	99.6	99.6
	D4	1.1784	3.51	100.7	100.7	100.8	100.8	100.8	100.9	100.9	100.7	100.6	100.6	100.6
	D5	1.1789	3.63	100.4	100.4	100.4	100.4	100.3	100.4	100.5	100.3	100.1	100.1	100.1
	D6	1.1791	3.55	98.8	98.8	98.8	98.8	98.7	98.7	98.8	98.6	98.4	98.4	98.4
	D7	1.1914	3.53	99.6	99.6	99.7	99.7	99.6	99.7	99.8	99.5	99.4	99.3	99.3
	D8	1.1827	3.51	98.8	98.7	98.7	98.7	98.6	98.7	98.7	98.5	98.4	98.3	98.3
	D9	1.1820	3.63	100.6	100.6	100.7	100.7	100.6	100.7	100.8	100.5	100.4	100.4	100.4
	D10	1.1847	3.66	99.7	99.7	99.7	99.7	99.7	99.7	99.8	99.6	99.4	99.4	99.5
	D11	1.1914	3.56	99.3	99.3	99.3	99.3	99.3	99.4	99.4	99.2	99.1	99.0	99.0
	D12	1.1829	3.61	100.8	100.8	100.9	100.8	100.8	100.9	101.0	100.7	100.6	100.5	100.5
5900001077DC031C	D1	1.1786	3.42	100.7	100.6	100.7	100.7	100.6	100.7	100.8	100.5	100.5	100.6	100.6
	D2	1.1978	3.41	99.8	99.7	99.8	99.8	99.7	99.8	99.9	99.6	99.5	99.4	99.5
	D3	1.1583	3.55	101.0	100.9	101.0	100.9	100.9	101.0	101.1	100.8	100.7	100.7	100.6
	D4	1.1476	3.56	101.2	101.2	101.2	101.2	101.1	101.2	101.3	101.1	101.0	101.0	100.9
	D5	1.1853	3.55	99.8	99.8	99.9	99.8	99.8	99.8	100.0	99.7	99.6	99.6	99.6
	D6	1.1842	3.64	99.7	99.7	99.7	99.7	99.6	99.7	99.8	99.5	99.4	99.3	99.3
	D7	1.1780	3.51	100.1	100.1	100.2	100.1	100.1	100.1	100.3	100.0	99.9	99.9	99.9
	D8	1.1698	3.59	100.8	100.8	100.9	100.8	100.8	100.9	101.0	100.7	100.6	100.6	100.6
	D9	1.1894	3.61	100.2	100.2	100.3	100.3	100.2	100.3	100.4	100.1	100.1	100.0	100.0
	D10	1.1897	3.56	100.4	100.3	100.4	100.4	100.2	100.3	100.4	100.2	100.1	100.1	100.1
	D11	1.1907	3.58	100.2	100.2	100.2	100.2	100.1	100.2	100.3	100.1	100.0	99.9	99.9
	D12	1.1733	3.50	99.7	99.7	99.7	99.7	99.6	99.7	99.8	99.5	99.4	99.3	99.3
n mean median std. dev. min max				24	24	24	24	24	24	24	24	24	24	24
				100.1	100.1	100.1	100.1	100.0	100.1	100.2	100.0	99.9	99.8	99.8
				100.2	100.1	100.2	100.2	100.1	100.2	100.3	100.0	100.0	99.9	99.9
				0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
				98.8	98.7	98.7	98.7	98.6	98.7	98.7	98.5	98.4	98.3	98.3
				101.2	101.2	101.2	101.2	101.1	101.2	101.3	101.1	101.0	101.0	100.9

Test Condition 155 °C1.050 A													
TABLE 2.1 - RADIANT FLUX MAINTENANCE RESULTS												GW CSSRM2.EM	
Test Condition 155 °C1.050 A													
Load board ID	Device number	Zero hour measurements		Photometric test drive current: 1.050 A Photometric test ambient temperature: 25 ± 2 °C Failures observed: none									
		Flux (W)	VF (V)	Radiant Flux Maintenance (%)									
				23000	24000	25000							
18000010849B031C	D1	1.1597	3.51	100.3	100.2	100.2							
	D2	1.1948	3.44	99.0	98.9	98.9							
	D3	1.1921	3.52	99.4	99.4	99.4							
	D4	1.1784	3.51	100.5	100.4	100.5							
	D5	1.1789	3.63	100.1	99.9	100.0							
	D6	1.1791	3.55	98.3	98.2	98.2							
	D7	1.1914	3.53	99.3	99.2	99.2							
	D8	1.1827	3.51	98.2	98.1	98.1							
	D9	1.1820	3.63	100.3	100.2	100.3							
	D10	1.1847	3.66	99.3	99.2	99.3							
	D11	1.1914	3.56	98.9	98.8	98.8							
	D12	1.1829	3.61	100.5	100.4	100.4							
5900001077DC031C	D1	1.1786	3.42	100.4	100.4	100.5							
	D2	1.1978	3.41	99.4	99.3	99.3							
	D3	1.1583	3.55	100.6	100.5	100.5							
	D4	1.1476	3.56	100.8	100.7	100.8							
	D5	1.1853	3.55	99.5	99.4	99.5							
	D6	1.1842	3.64	99.2	99.2	99.2							
	D7	1.1780	3.51	99.8	99.7	99.8							
	D8	1.1698	3.59	100.5	100.4	100.5							
	D9	1.1894	3.61	100.0	99.9	99.9							
	D10	1.1897	3.56	100.0	99.9	100.0							
	D11	1.1907	3.58	99.8	99.7	99.8							
	D12	1.1733	3.50	99.2	99.1	99.1							
n				24	24	24							
mean				99.7	99.6	99.7							
median				99.8	99.7	99.8							
std. dev.				0.7	0.7	0.7							
min				98.2	98.1	98.1							
max				100.8	100.7	100.8							

Test Condition 1 55 °C 1.050 A														
TABLE 2.2 - PHOTOSYNTHETIC PHOTON FLUX MAINTENANCE RESULTS													GW CSSRM2.EM	
Test Condition 1 55 °C 1.050 A														
Load board ID	Device number	Zero hour measurements		Photometric test drive current: 1.050 A Photometric test ambient temperature: 25 ± 2 °C Failures observed: none										
		PPF (μmol/s)	VF (V)	Photosynthetic Photon Flux Maintenance (%)										
				1000	2000	3000	4000	5000	6000	7000	8000	9000	10000	11000
18000010849B031C	D1	5.3603	3.51	101.1	100.9	100.9	100.9	100.8	100.7	100.7	100.7	100.8	100.9	100.8
	D2	5.5142	3.44	99.6	99.4	99.3	99.3	99.2	99.1	99.2	99.2	99.2	99.3	99.3
	D3	5.5008	3.52	100.3	100.0	100.0	99.9	99.7	99.7	99.7	99.7	99.8	99.9	99.8
	D4	5.4452	3.51	100.7	100.6	100.6	100.6	100.5	100.5	100.5	100.5	100.6	100.7	100.7
	D5	5.4450	3.63	100.6	100.5	100.4	100.4	100.3	100.3	100.3	100.2	100.3	100.4	100.3
	D6	5.4500	3.55	99.2	99.1	99.0	98.9	98.8	98.7	98.8	98.7	98.7	98.9	98.8
	D7	5.5004	3.53	99.7	99.6	99.6	99.5	99.4	99.3	99.4	99.4	99.4	99.6	99.5
	D8	5.4585	3.51	99.3	99.1	99.0	99.0	98.8	98.7	98.7	98.7	98.7	98.8	98.7
	D9	5.4647	3.63	100.8	100.6	100.6	100.6	100.5	100.4	100.5	100.5	100.5	100.7	100.6
	D10	5.4709	3.66	100.2	100.0	99.9	99.8	99.6	99.5	99.6	99.5	99.6	99.7	99.7
	D11	5.5014	3.56	99.8	99.6	99.5	99.4	99.3	99.2	99.2	99.2	99.2	99.4	99.3
	D12	5.4662	3.61	100.8	100.7	100.7	100.7	100.5	100.5	100.6	100.5	100.7	100.8	100.7
5900001077DC031C	D1	5.4434	3.42	100.7	100.7	100.7	100.7	100.5	100.5	100.5	100.5	100.6	100.7	100.6
	D2	5.5342	3.41	99.8	99.7	99.7	99.7	99.5	99.4	99.5	99.5	99.6	99.7	99.7
	D3	5.3552	3.55	101.0	100.9	100.9	100.9	100.8	100.7	100.7	100.7	100.8	100.9	100.9
	D4	5.3080	3.56	101.0	101.0	101.0	101.0	100.9	100.8	100.9	100.9	101.0	101.2	101.1
	D5	5.4738	3.55	99.9	99.7	99.7	99.7	99.6	99.6	99.6	99.5	99.7	99.8	99.7
	D6	5.4666	3.64	100.2	100.0	99.9	99.8	99.6	99.5	99.6	99.6	99.6	99.8	99.7
	D7	5.4447	3.51	100.1	100.0	100.0	100.0	99.9	99.8	99.8	99.8	100.0	100.1	100.0
	D8	5.4072	3.59	100.6	100.6	100.6	100.6	100.5	100.4	100.5	100.5	100.6	100.7	100.7
	D9	5.4966	3.61	100.2	100.1	100.1	100.1	100.0	100.0	100.0	100.0	100.1	100.2	100.2
	D10	5.4890	3.56	100.3	100.3	100.4	100.3	100.2	100.1	100.2	100.2	100.3	100.4	100.3
	D11	5.4994	3.58	100.2	100.1	100.1	100.1	100.0	99.9	99.9	99.9	100.0	100.2	100.1
	D12	5.4176	3.50	99.9	99.8	99.8	99.8	99.6	99.5	99.6	99.6	99.7	99.8	99.7
n mean median std. dev. min max				24	24	24	24	24	24	24	24	24	24	24
				100.2	100.1	100.1	100.1	99.9	99.9	99.9	99.9	100.0	100.1	100.0
				100.2	100.1	100.0	100.0	99.9	99.8	99.9	99.9	100.0	100.1	100.1
				0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.7
				99.2	99.1	99.0	98.9	98.8	98.7	98.7	98.7	98.7	98.8	98.7
				101.1	101.0	101.0	101.0	100.9	100.8	100.9	100.9	101.0	101.2	101.1

Test Condition 1				55 °C		1.050 A										
TABLE 2.2 - PHOTOSYNTHETIC PHOTON FLUX MAINTENANCE RESULTS															GW CSSRM2.EM	
Test Condition 1				55 °C		1.050 A										
Load board ID	Device number	Zero hour measurements		Photometric test drive current: 1.050 A Photometric test ambient temperature: 25 ± 2 °C Failures observed: none												
		PPF (μmol/s)	VF (V)	Photosynthetic Photon Flux Maintenance (%)												
				12000	13000	14000	15000	16000	17000	18000	19000	20000	21000	22000		
18000010849B031C	D1	5.3603	3.51	100.8	100.8	100.9	100.8	100.7	100.8	100.9	100.6	100.5	100.5	100.5		
	D2	5.5142	3.44	99.3	99.3	99.3	99.3	99.2	99.3	99.3	99.1	99.0	99.0	99.0		
	D3	5.5008	3.52	99.8	99.8	99.9	99.8	99.7	99.8	99.9	99.7	99.5	99.5	99.5		
	D4	5.4452	3.51	100.7	100.7	100.7	100.7	100.7	100.8	100.8	100.7	100.6	100.5	100.5		
	D5	5.4450	3.63	100.4	100.4	100.4	100.4	100.3	100.4	100.4	100.2	100.1	100.1	100.1		
	D6	5.4500	3.55	98.8	98.7	98.7	98.7	98.6	98.7	98.8	98.5	98.4	98.3	98.3		
	D7	5.5004	3.53	99.5	99.5	99.6	99.6	99.5	99.5	99.7	99.4	99.3	99.2	99.2		
	D8	5.4585	3.51	98.7	98.7	98.7	98.6	98.5	98.6	98.6	98.4	98.3	98.2	98.2		
	D9	5.4647	3.63	100.6	100.6	100.7	100.6	100.5	100.6	100.7	100.4	100.4	100.3	100.4		
	D10	5.4709	3.66	99.6	99.7	99.7	99.6	99.6	99.6	99.7	99.5	99.4	99.3	99.4		
	D11	5.5014	3.56	99.3	99.3	99.3	99.3	99.2	99.3	99.4	99.2	99.0	98.9	99.0		
	D12	5.4662	3.61	100.7	100.7	100.8	100.8	100.7	100.8	100.9	100.6	100.5	100.4	100.5		
5900001077DC031C	D1	5.4434	3.42	100.6	100.6	100.7	100.6	100.5	100.7	100.7	100.5	100.5	100.5	100.5		
	D2	5.5342	3.41	99.7	99.7	99.7	99.7	99.6	99.7	99.8	99.5	99.5	99.4	99.4		
	D3	5.3552	3.55	100.9	100.8	100.9	100.8	100.8	100.9	101.0	100.7	100.6	100.6	100.5		
	D4	5.3080	3.56	101.1	101.1	101.2	101.2	101.1	101.2	101.3	101.0	100.9	100.8	100.8		
	D5	5.4738	3.55	99.7	99.7	99.8	99.8	99.7	99.8	99.9	99.6	99.5	99.5	99.5		
	D6	5.4666	3.64	99.7	99.6	99.7	99.6	99.5	99.6	99.7	99.5	99.4	99.3	99.3		
	D7	5.4447	3.51	100.0	100.0	100.1	100.0	100.0	100.0	100.1	99.9	99.8	99.7	99.8		
	D8	5.4072	3.59	100.7	100.7	100.8	100.7	100.7	100.8	100.9	100.6	100.5	100.5	100.5		
	D9	5.4966	3.61	100.2	100.2	100.2	100.2	100.1	100.2	100.3	100.1	100.0	99.9	100.0		
	D10	5.4890	3.56	100.3	100.3	100.3	100.3	100.2	100.2	100.4	100.1	100.0	100.0	100.0		
	D11	5.4994	3.58	100.1	100.1	100.1	100.1	100.1	100.1	100.2	100.0	99.9	99.8	99.9		
	D12	5.4176	3.50	99.6	99.7	99.6	99.6	99.6	99.6	99.7	99.4	99.3	99.2	99.2		
n mean median std. dev. min max				24	24	24	24	24	24	24	24	24	24	24		
				100.0	100.0	100.1	100.0	100.0	100.0	100.1	99.9	99.8	99.7	99.7		
				100.1	100.1	100.1	100.1	100.0	100.1	100.2	100.0	99.9	99.8	99.8		
				0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7		
				98.7	98.7	98.7	98.6	98.5	98.6	98.6	98.4	98.3	98.2	98.2		
				101.1	101.1	101.2	101.2	101.1	101.2	101.3	101.0	100.9	100.8	100.8		

Test Condition 1				55 °C		1.050 A										
TABLE 2.2 - PHOTOSYNTHETIC PHOTON FLUX MAINTENANCE RESULTS															GW CSSRM2.EM	
Test Condition 1				55 °C		1.050 A										
Load board ID	Device number	Zero hour measurements		Photometric test drive current: 1.050 A Photometric test ambient temperature: 25 ± 2 °C Failures observed: none												
		PPF (μmol/s)	VF (V)	Photosynthetic Photon Flux Maintenance (%)												
				23000	24000	25000										
18000010849B031C	D1	5.3603	3.51	100.4	100.3	100.3										
	D2	5.5142	3.44	98.9	98.8	98.8										
	D3	5.5008	3.52	99.4	99.3	99.4										
	D4	5.4452	3.51	100.4	100.3	100.4										
	D5	5.4450	3.63	100.0	99.9	100.0										
	D6	5.4500	3.55	98.2	98.1	98.1										
	D7	5.5004	3.53	99.2	99.1	99.2										
	D8	5.4585	3.51	98.1	98.0	98.1										
	D9	5.4647	3.63	100.2	100.2	100.2										
	D10	5.4709	3.66	99.2	99.1	99.2										
	D11	5.5014	3.56	98.8	98.8	98.8										
	D12	5.4662	3.61	100.4	100.3	100.4										
5900001077DC031C	D1	5.4434	3.42	100.4	100.3	100.4										
	D2	5.5342	3.41	99.3	99.2	99.2										
	D3	5.3552	3.55	100.5	100.4	100.4										
	D4	5.3080	3.56	100.7	100.6	100.7										
	D5	5.4738	3.55	99.4	99.3	99.4										
	D6	5.4666	3.64	99.2	99.1	99.2										
	D7	5.4447	3.51	99.6	99.5	99.7										
	D8	5.4072	3.59	100.4	100.3	100.4										
	D9	5.4966	3.61	99.9	99.8	99.9										
	D10	5.4890	3.56	99.9	99.8	99.9										
	D11	5.4994	3.58	99.7	99.6	99.7										
	D12	5.4176	3.50	99.1	99.0	99.1										
n				24	24	24										
mean				99.6	99.5	99.6										
median				99.7	99.6	99.7										
std. dev.				0.7	0.7	0.7										
min				98.1	98.0	98.1										
max				100.7	100.6	100.7										

Test Condition 1				55 °C		1.050 A								
TABLE 2.3 - CHROMATICITY COORDINATE U' RESULTS													GW CSSRM2.EM	
Test Condition 1				55 °C		1.050 A								
Load board ID	Device number	Zero hour measurements		Photometric test drive current: 1.050 A Photometric test ambient temperature: 25 ± 2 °C Failures observed: none										
		u'		Chromaticity Coordinate u'										
				1000	2000	3000	4000	5000	6000	7000	8000	9000	10000	11000
18000010849B031C	D1		0.2363	0.2356	0.2357	0.2356	0.2355	0.2356	0.2355	0.2355	0.2355	0.2354	0.2355	0.2355
	D2		0.2335	0.2326	0.2325	0.2325	0.2324	0.2324	0.2323	0.2323	0.2323	0.2322	0.2323	0.2322
	D3		0.2338	0.2330	0.2330	0.2330	0.2329	0.2329	0.2328	0.2328	0.2328	0.2327	0.2327	0.2327
	D4		0.2352	0.2344	0.2343	0.2343	0.2341	0.2341	0.2341	0.2341	0.2340	0.2340	0.2340	0.2339
	D5		0.2346	0.2338	0.2337	0.2337	0.2336	0.2336	0.2335	0.2335	0.2335	0.2334	0.2335	0.2334
	D6		0.2350	0.2341	0.2340	0.2340	0.2339	0.2339	0.2338	0.2338	0.2338	0.2337	0.2338	0.2337
	D7		0.2331	0.2322	0.2321	0.2321	0.2320	0.2320	0.2319	0.2319	0.2319	0.2318	0.2319	0.2318
	D8		0.2329	0.2321	0.2321	0.2320	0.2319	0.2319	0.2319	0.2318	0.2318	0.2318	0.2318	0.2318
	D9		0.2352	0.2343	0.2342	0.2342	0.2341	0.2341	0.2340	0.2340	0.2340	0.2339	0.2340	0.2339
	D10		0.2337	0.2328	0.2327	0.2327	0.2326	0.2326	0.2325	0.2325	0.2324	0.2324	0.2324	0.2324
	D11		0.2338	0.2329	0.2329	0.2328	0.2327	0.2327	0.2327	0.2327	0.2326	0.2326	0.2326	0.2326
	D12		0.2359	0.2349	0.2348	0.2348	0.2347	0.2347	0.2346	0.2346	0.2346	0.2345	0.2345	0.2345
5900001077DC031C	D1		0.2339	0.2331	0.2329	0.2329	0.2328	0.2328	0.2327	0.2327	0.2327	0.2327	0.2326	0.2326
	D2		0.2344	0.2335	0.2334	0.2334	0.2333	0.2333	0.2332	0.2332	0.2332	0.2331	0.2331	0.2331
	D3		0.2358	0.2349	0.2348	0.2348	0.2347	0.2346	0.2346	0.2346	0.2346	0.2346	0.2345	0.2345
	D4		0.2359	0.2350	0.2349	0.2349	0.2348	0.2348	0.2347	0.2347	0.2347	0.2346	0.2346	0.2346
	D5		0.2346	0.2337	0.2336	0.2336	0.2335	0.2335	0.2334	0.2334	0.2334	0.2333	0.2334	0.2333
	D6		0.2349	0.2341	0.2340	0.2341	0.2339	0.2339	0.2339	0.2339	0.2339	0.2338	0.2338	0.2338
	D7		0.2345	0.2335	0.2334	0.2333	0.2333	0.2332	0.2332	0.2332	0.2331	0.2331	0.2331	0.2330
	D8		0.2353	0.2343	0.2342	0.2342	0.2341	0.2341	0.2340	0.2340	0.2340	0.2339	0.2339	0.2339
	D9		0.2351	0.2341	0.2341	0.2341	0.2340	0.2340	0.2339	0.2339	0.2339	0.2339	0.2338	0.2338
	D10		0.2334	0.2325	0.2324	0.2324	0.2323	0.2323	0.2322	0.2323	0.2322	0.2322	0.2322	0.2322
	D11		0.2343	0.2334	0.2334	0.2333	0.2333	0.2332	0.2332	0.2332	0.2331	0.2331	0.2331	0.2331
	D12		0.2342	0.2333	0.2331	0.2332	0.2331	0.2330	0.2330	0.2331	0.2330	0.2330	0.2330	0.2329
n				24	24	24	24	24	24	24	24	24	24	
mean				0.2337	0.2336	0.2336	0.2335	0.2335	0.2334	0.2334	0.2334	0.2333	0.2333	0.2333
median				0.2336	0.2335	0.2335	0.2334	0.2334	0.2333	0.2333	0.2333	0.2332	0.2332	0.2332
std. dev.				0.0009	0.0009	0.0009	0.0009	0.0009	0.0009	0.0009	0.0010	0.0009	0.0009	0.0009
min				0.2321	0.2321	0.2320	0.2319	0.2319	0.2319	0.2318	0.2318	0.2318	0.2318	0.2318
max				0.2356	0.2357	0.2356	0.2355	0.2356	0.2355	0.2355	0.2355	0.2354	0.2355	0.2355

Test Condition 1				55 °C		1.050 A									
TABLE 2.3 - CHROMATICITY COORDINATE U' RESULTS														GW CSSRM2.EM	
Test Condition 1				55 °C		1.050 A									
Load board ID	Device number	Zero hour measurements		Photometric test drive current: 1.050 A Photometric test ambient temperature: 25 ± 2 °C Failures observed: none											
		u'		Chromaticity Coordinate u'											
				12000	13000	14000	15000	16000	17000	18000	19000	20000	21000	22000	
18000010849B031C	D1		0.2363	0.2355	0.2354	0.2354	0.2354	0.2354	0.2354	0.2354	0.2354	0.2354	0.2354	0.2354	
	D2		0.2335	0.2322	0.2321	0.2322	0.2321	0.2321	0.2321	0.2321	0.2321	0.2321	0.2321	0.2321	
	D3		0.2338	0.2327	0.2327	0.2327	0.2326	0.2326	0.2326	0.2326	0.2326	0.2326	0.2326	0.2326	
	D4		0.2352	0.2339	0.2339	0.2339	0.2339	0.2339	0.2339	0.2338	0.2338	0.2338	0.2338	0.2338	
	D5		0.2346	0.2333	0.2334	0.2334	0.2334	0.2334	0.2333	0.2333	0.2333	0.2333	0.2333	0.2333	
	D6		0.2350	0.2337	0.2337	0.2337	0.2337	0.2337	0.2337	0.2336	0.2337	0.2336	0.2336	0.2336	
	D7		0.2331	0.2318	0.2318	0.2318	0.2318	0.2317	0.2317	0.2317	0.2317	0.2317	0.2317	0.2317	
	D8		0.2329	0.2317	0.2317	0.2317	0.2317	0.2317	0.2316	0.2316	0.2317	0.2316	0.2316	0.2316	
	D9		0.2352	0.2339	0.2339	0.2339	0.2338	0.2339	0.2338	0.2337	0.2338	0.2338	0.2338	0.2338	
	D10		0.2337	0.2323	0.2324	0.2323	0.2323	0.2323	0.2323	0.2322	0.2323	0.2323	0.2322	0.2322	
	D11		0.2338	0.2326	0.2325	0.2325	0.2325	0.2325	0.2325	0.2324	0.2325	0.2325	0.2325	0.2325	
	D12		0.2359	0.2344	0.2345	0.2344	0.2344	0.2344	0.2344	0.2343	0.2344	0.2344	0.2344	0.2344	
5900001077DC031C	D1		0.2339	0.2326	0.2326	0.2326	0.2326	0.2326	0.2326	0.2325	0.2326	0.2325	0.2325	0.2325	
	D2		0.2344	0.2330	0.2330	0.2330	0.2331	0.2330	0.2330	0.2329	0.2330	0.2330	0.2330	0.2330	
	D3		0.2358	0.2345	0.2345	0.2345	0.2345	0.2345	0.2345	0.2344	0.2345	0.2344	0.2345	0.2345	
	D4		0.2359	0.2346	0.2346	0.2346	0.2345	0.2346	0.2345	0.2345	0.2345	0.2345	0.2345	0.2345	
	D5		0.2346	0.2333	0.2333	0.2333	0.2333	0.2333	0.2333	0.2332	0.2332	0.2332	0.2332	0.2332	
	D6		0.2349	0.2338	0.2338	0.2337	0.2338	0.2337	0.2337	0.2337	0.2337	0.2337	0.2337	0.2337	
	D7		0.2345	0.2330	0.2330	0.2330	0.2330	0.2330	0.2330	0.2329	0.2330	0.2329	0.2329	0.2329	
	D8		0.2353	0.2339	0.2339	0.2338	0.2338	0.2338	0.2338	0.2337	0.2338	0.2338	0.2338	0.2338	
	D9		0.2351	0.2338	0.2338	0.2337	0.2337	0.2337	0.2337	0.2337	0.2337	0.2337	0.2337	0.2337	
	D10		0.2334	0.2322	0.2322	0.2321	0.2321	0.2321	0.2321	0.2320	0.2321	0.2321	0.2320	0.2320	
	D11		0.2343	0.2331	0.2331	0.2330	0.2330	0.2330	0.2330	0.2330	0.2330	0.2330	0.2330	0.2330	
	D12		0.2342	0.2329	0.2329	0.2329	0.2329	0.2329	0.2329	0.2328	0.2329	0.2329	0.2329	0.2329	
n				24	24	24	24	24	24	24	24	24	24	24	
mean				0.2333	0.2333	0.2332	0.2333	0.2332	0.2332	0.2332	0.2332	0.2332	0.2332	0.2332	
median				0.2332	0.2332	0.2331	0.2332	0.2331	0.2332	0.2331	0.2331	0.2331	0.2331	0.2331	
std. dev.				0.0009	0.0009	0.0009	0.0009	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	
min				0.2317	0.2317	0.2317	0.2317	0.2317	0.2316	0.2316	0.2317	0.2316	0.2316	0.2316	
max				0.2355	0.2354	0.2354	0.2354	0.2354	0.2354	0.2354	0.2354	0.2354	0.2354	0.2354	

Test Condition 1				55 °C	1.050 A									
TABLE 2.3 - CHROMATICITY COORDINATE U' RESULTS														
Test Condition 1				55 °C	1.050 A	GW CSSRM2.EM								
Load board ID	Device number	Zero hour measurements		Photometric test drive current: 1.050 A Photometric test ambient temperature: 25 ± 2 °C Failures observed: none										
		u'		Chromaticity Coordinate u'										
				23000	24000	25000								
18000010849B031C	D1		0.2363	0.2353	0.2354	0.2354								
	D2		0.2335	0.2320	0.2321	0.2321								
	D3		0.2338	0.2325	0.2326	0.2326								
	D4		0.2352	0.2338	0.2338	0.2338								
	D5		0.2346	0.2332	0.2333	0.2333								
	D6		0.2350	0.2336	0.2336	0.2337								
	D7		0.2331	0.2317	0.2317	0.2317								
	D8		0.2329	0.2316	0.2316	0.2316								
	D9		0.2352	0.2338	0.2338	0.2338								
	D10		0.2337	0.2322	0.2322	0.2322								
	D11		0.2338	0.2324	0.2325	0.2325								
	D12		0.2359	0.2343	0.2344	0.2344								
5900001077DC031C	D1		0.2339	0.2324	0.2325	0.2325								
	D2		0.2344	0.2329	0.2329	0.2330								
	D3		0.2358	0.2343	0.2345	0.2345								
	D4		0.2359	0.2344	0.2345	0.2345								
	D5		0.2346	0.2331	0.2332	0.2332								
	D6		0.2349	0.2336	0.2337	0.2337								
	D7		0.2345	0.2328	0.2329	0.2330								
	D8		0.2353	0.2337	0.2337	0.2338								
	D9		0.2351	0.2336	0.2336	0.2337								
	D10		0.2334	0.2319	0.2320	0.2320								
	D11		0.2343	0.2329	0.2330	0.2330								
	D12		0.2342	0.2328	0.2328	0.2329								
n				24	24	24								
mean				0.2331	0.2332	0.2332								
median				0.2330	0.2331	0.2331								
std. dev.				0.0010	0.0010	0.0010								
min				0.2316	0.2316	0.2316								
max				0.2353	0.2354	0.2354								

Test Condition 1				55 °C		1.050 A								
TABLE 2.4 - CHROMATICITY COORDINATE V' RESULTS														GW CSSRM2.EM
Test Condition 1				55 °C		1.050 A								
Load board ID	Device number	Zero hour measurements		Photometric test drive current: 1.050 A Photometric test ambient temperature: 25 ± 2 °C Failures observed: none										
		v'		Chromaticity Coordinate v'										
				1000	2000	3000	4000	5000	6000	7000	8000	9000	10000	11000
18000010849B031C	D1		0.5203	0.5207	0.5208	0.5209	0.5210	0.5211	0.5212	0.5212	0.5212	0.5213	0.5213	0.5213
	D2		0.5189	0.5186	0.5185	0.5186	0.5186	0.5187	0.5187	0.5187	0.5187	0.5187	0.5187	0.5187
	D3		0.5188	0.5185	0.5184	0.5185	0.5185	0.5186	0.5186	0.5186	0.5186	0.5187	0.5187	0.5186
	D4		0.5198	0.5195	0.5195	0.5195	0.5196	0.5196	0.5196	0.5196	0.5196	0.5197	0.5197	0.5197
	D5		0.5192	0.5189	0.5189	0.5189	0.5190	0.5191	0.5191	0.5191	0.5191	0.5192	0.5191	0.5191
	D6		0.5206	0.5202	0.5202	0.5202	0.5203	0.5204	0.5203	0.5204	0.5204	0.5204	0.5204	0.5204
	D7		0.5194	0.5191	0.5191	0.5191	0.5191	0.5192	0.5192	0.5192	0.5192	0.5193	0.5192	0.5193
	D8		0.5192	0.5189	0.5189	0.5189	0.5190	0.5190	0.5191	0.5191	0.5191	0.5191	0.5191	0.5191
	D9		0.5208	0.5205	0.5206	0.5206	0.5206	0.5207	0.5207	0.5208	0.5207	0.5208	0.5208	0.5208
	D10		0.5195	0.5192	0.5192	0.5192	0.5193	0.5194	0.5193	0.5194	0.5194	0.5194	0.5194	0.5194
	D11		0.5194	0.5190	0.5189	0.5190	0.5190	0.5190	0.5190	0.5190	0.5190	0.5191	0.5191	0.5191
	D12		0.5190	0.5187	0.5186	0.5187	0.5187	0.5188	0.5188	0.5188	0.5188	0.5189	0.5188	0.5189
5900001077DC031C	D1		0.5195	0.5193	0.5193	0.5193	0.5194	0.5194	0.5194	0.5195	0.5195	0.5195	0.5196	0.5196
	D2		0.5199	0.5195	0.5195	0.5195	0.5195	0.5195	0.5196	0.5196	0.5196	0.5196	0.5196	0.5197
	D3		0.5199	0.5194	0.5194	0.5194	0.5194	0.5194	0.5195	0.5194	0.5195	0.5195	0.5195	0.5195
	D4		0.5209	0.5206	0.5206	0.5206	0.5206	0.5206	0.5207	0.5207	0.5208	0.5208	0.5208	0.5208
	D5		0.5191	0.5188	0.5188	0.5189	0.5189	0.5189	0.5189	0.5189	0.5190	0.5190	0.5190	0.5190
	D6		0.5185	0.5183	0.5183	0.5183	0.5184	0.5184	0.5185	0.5184	0.5185	0.5185	0.5185	0.5186
	D7		0.5203	0.5199	0.5199	0.5198	0.5198	0.5198	0.5199	0.5199	0.5199	0.5199	0.5199	0.5199
	D8		0.5193	0.5188	0.5189	0.5189	0.5189	0.5189	0.5189	0.5189	0.5190	0.5190	0.5190	0.5190
	D9		0.5196	0.5191	0.5192	0.5192	0.5192	0.5193	0.5193	0.5193	0.5193	0.5194	0.5194	0.5194
	D10		0.5192	0.5189	0.5189	0.5189	0.5190	0.5189	0.5190	0.5190	0.5190	0.5191	0.5190	0.5191
	D11		0.5191	0.5187	0.5187	0.5187	0.5188	0.5188	0.5188	0.5188	0.5189	0.5189	0.5189	0.5189
	D12		0.5192	0.5186	0.5187	0.5187	0.5188	0.5188	0.5189	0.5188	0.5189	0.5189	0.5189	0.5189
n				24	24	24	24	24	24	24	24	24	24	24
mean				0.5192	0.5192	0.5193	0.5193	0.5193	0.5194	0.5194	0.5194	0.5194	0.5194	0.5195
median				0.5190	0.5190	0.5190	0.5191	0.5191	0.5191	0.5191	0.5191	0.5192	0.5192	0.5192
std. dev.				0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007
min				0.5183	0.5183	0.5183	0.5184	0.5184	0.5185	0.5184	0.5185	0.5185	0.5185	0.5186
max				0.5207	0.5208	0.5209	0.5210	0.5211	0.5212	0.5212	0.5212	0.5213	0.5213	0.5213

Test Condition 1				55 °C		1.050 A								
TABLE 2.4 - CHROMATICITY COORDINATE V' RESULTS													GW CSSRM2.EM	
Test Condition 1				55 °C		1.050 A								
Load board ID	Device number	Zero hour measurements		Photometric test drive current: 1.050 A Photometric test ambient temperature: 25 ± 2 °C Failures observed: none										
		v'		Chromaticity Coordinate v'										
				12000	13000	14000	15000	16000	17000	18000	19000	20000	21000	22000
18000010849B031C	D1		0.5203	0.5213	0.5214	0.5214	0.5215	0.5214	0.5215	0.5215	0.5215	0.5216	0.5216	0.5216
	D2		0.5189	0.5187	0.5188	0.5188	0.5188	0.5188	0.5189	0.5188	0.5188	0.5189	0.5189	0.5188
	D3		0.5188	0.5186	0.5187	0.5187	0.5188	0.5187	0.5188	0.5188	0.5188	0.5188	0.5188	0.5188
	D4		0.5198	0.5197	0.5197	0.5197	0.5198	0.5197	0.5198	0.5198	0.5198	0.5198	0.5198	0.5198
	D5		0.5192	0.5192	0.5192	0.5192	0.5193	0.5192	0.5193	0.5193	0.5193	0.5193	0.5193	0.5193
	D6		0.5206	0.5204	0.5205	0.5205	0.5205	0.5205	0.5205	0.5206	0.5205	0.5206	0.5206	0.5206
	D7		0.5194	0.5193	0.5193	0.5193	0.5193	0.5193	0.5194	0.5193	0.5193	0.5194	0.5194	0.5194
	D8		0.5192	0.5191	0.5192	0.5191	0.5192	0.5191	0.5192	0.5192	0.5192	0.5192	0.5192	0.5192
	D9		0.5208	0.5208	0.5208	0.5208	0.5209	0.5209	0.5209	0.5209	0.5209	0.5210	0.5210	0.5210
	D10		0.5195	0.5194	0.5195	0.5195	0.5195	0.5195	0.5195	0.5195	0.5195	0.5196	0.5195	0.5195
	D11		0.5194	0.5191	0.5191	0.5191	0.5191	0.5191	0.5191	0.5191	0.5191	0.5192	0.5192	0.5192
	D12		0.5190	0.5188	0.5189	0.5188	0.5189	0.5189	0.5189	0.5190	0.5189	0.5190	0.5190	0.5190
5900001077DC031C	D1		0.5195	0.5196	0.5197	0.5197	0.5197	0.5197	0.5197	0.5197	0.5197	0.5197	0.5197	0.5197
	D2		0.5199	0.5197	0.5197	0.5197	0.5197	0.5197	0.5197	0.5198	0.5197	0.5198	0.5198	0.5198
	D3		0.5199	0.5195	0.5196	0.5196	0.5195	0.5196	0.5196	0.5196	0.5196	0.5197	0.5197	0.5197
	D4		0.5209	0.5208	0.5209	0.5209	0.5209	0.5209	0.5209	0.5209	0.5209	0.5210	0.5210	0.5210
	D5		0.5191	0.5190	0.5191	0.5190	0.5191	0.5191	0.5191	0.5191	0.5191	0.5192	0.5192	0.5191
	D6		0.5185	0.5186	0.5187	0.5186	0.5187	0.5186	0.5187	0.5187	0.5187	0.5188	0.5187	0.5187
	D7		0.5203	0.5200	0.5200	0.5200	0.5200	0.5200	0.5200	0.5200	0.5200	0.5200	0.5200	0.5200
	D8		0.5193	0.5190	0.5191	0.5191	0.5191	0.5191	0.5191	0.5191	0.5191	0.5192	0.5192	0.5192
	D9		0.5196	0.5194	0.5194	0.5194	0.5195	0.5195	0.5195	0.5195	0.5195	0.5196	0.5196	0.5196
	D10		0.5192	0.5191	0.5191	0.5191	0.5191	0.5192	0.5192	0.5192	0.5192	0.5192	0.5191	0.5191
	D11		0.5191	0.5190	0.5190	0.5190	0.5190	0.5190	0.5191	0.5191	0.5191	0.5191	0.5191	0.5191
	D12		0.5192	0.5190	0.5190	0.5190	0.5190	0.5190	0.5190	0.5190	0.5191	0.5191	0.5191	0.5191
n				24	24	24	24	24	24	24	24	24	24	24
mean				0.5195	0.5195	0.5195	0.5195	0.5195	0.5196	0.5196	0.5196	0.5196	0.5196	0.5196
median				0.5192	0.5193	0.5192	0.5193	0.5193	0.5193	0.5193	0.5193	0.5194	0.5194	0.5194
std. dev.				0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008
min				0.5186	0.5187	0.5186	0.5187	0.5186	0.5187	0.5187	0.5187	0.5188	0.5187	0.5187
max				0.5213	0.5214	0.5214	0.5215	0.5214	0.5215	0.5215	0.5215	0.5216	0.5216	0.5216

Test Condition 1 55 °C 1.050 A													
TABLE 2.4 - CHROMATICITY COORDINATE V' RESULTS													GW CSSRM2.EM
Test Condition 1 55 °C 1.050 A													
Load board ID	Device number	Zero hour measurements		Photometric test drive current: 1.050 A Photometric test ambient temperature: 25 ± 2 °C Failures observed: none									
		v'		Chromaticity Coordinate v'									
				23000	24000	25000							
18000010849B031C	D1		0.5203	0.5217	0.5217	0.5217							
	D2		0.5189	0.5189	0.5189	0.5189							
	D3		0.5188	0.5189	0.5188	0.5189							
	D4		0.5198	0.5198	0.5199	0.5198							
	D5		0.5192	0.5194	0.5194	0.5194							
	D6		0.5206	0.5206	0.5206	0.5206							
	D7		0.5194	0.5194	0.5194	0.5194							
	D8		0.5192	0.5192	0.5192	0.5192							
	D9		0.5208	0.5210	0.5210	0.5210							
	D10		0.5195	0.5196	0.5196	0.5195							
	D11		0.5194	0.5192	0.5192	0.5192							
	D12		0.5190	0.5190	0.5190	0.5190							
5900001077DC031C	D1		0.5195	0.5198	0.5198	0.5197							
	D2		0.5199	0.5198	0.5199	0.5198							
	D3		0.5199	0.5196	0.5197	0.5196							
	D4		0.5209	0.5210	0.5210	0.5209							
	D5		0.5191	0.5192	0.5192	0.5191							
	D6		0.5185	0.5188	0.5188	0.5187							
	D7		0.5203	0.5200	0.5201	0.5200							
	D8		0.5193	0.5192	0.5192	0.5191							
	D9		0.5196	0.5196	0.5196	0.5196							
	D10		0.5192	0.5191	0.5192	0.5191							
	D11		0.5191	0.5191	0.5192	0.5191							
	D12		0.5192	0.5192	0.5192	0.5191							
n				24	24	24							
mean				0.5196	0.5197	0.5196							
median				0.5194	0.5194	0.5194							
std. dev.				0.0008	0.0008	0.0008							
min				0.5188	0.5188	0.5187							
max				0.5217	0.5217	0.5217							

Test Condition 1 55 °C 1.050 A															
TABLE 2.5 - CHROMATICITY SHIFT RESULTS															
Test Condition 1 55 °C 1.050 A															
Load board ID	Device number	Zero hour measurements			Photometric test drive current: 1.050 A Photometric test ambient temperature: 25 ± 2 °C Failures observed: none										
		u'	v'		Chromaticity shift ($\Delta u'v'$)										
					1000	2000	3000	4000	5000	6000	7000	8000	9000	10000	11000
18000010849B031C	D1	0.2363	0.5203		0.0008	0.0008	0.0009	0.0010	0.0011	0.0012	0.0012	0.0012	0.0013	0.0013	0.0013
	D2	0.2335	0.5189		0.0009	0.0010	0.0010	0.0011	0.0011	0.0012	0.0012	0.0012	0.0013	0.0012	0.0013
	D3	0.2338	0.5188		0.0009	0.0009	0.0009	0.0010	0.0010	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011
	D4	0.2352	0.5198		0.0009	0.0009	0.0010	0.0010	0.0010	0.0011	0.0011	0.0012	0.0012	0.0012	0.0012
	D5	0.2346	0.5192		0.0009	0.0010	0.0010	0.0011	0.0011	0.0012	0.0011	0.0012	0.0012	0.0012	0.0013
	D6	0.2350	0.5206		0.0010	0.0010	0.0011	0.0011	0.0011	0.0012	0.0012	0.0012	0.0012	0.0012	0.0013
	D7	0.2331	0.5194		0.0010	0.0011	0.0011	0.0012	0.0012	0.0013	0.0012	0.0013	0.0013	0.0013	0.0013
	D8	0.2329	0.5192		0.0009	0.0009	0.0009	0.0010	0.0011	0.0011	0.0011	0.0011	0.0012	0.0011	0.0012
	D9	0.2352	0.5208		0.0009	0.0010	0.0010	0.0011	0.0011	0.0012	0.0012	0.0012	0.0012	0.0012	0.0013
	D10	0.2337	0.5195		0.0010	0.0011	0.0011	0.0012	0.0012	0.0012	0.0012	0.0013	0.0013	0.0013	0.0013
	D11	0.2338	0.5194		0.0010	0.0010	0.0010	0.0011	0.0012	0.0012	0.0011	0.0012	0.0013	0.0012	0.0012
	D12	0.2359	0.5190		0.0010	0.0011	0.0011	0.0011	0.0012	0.0013	0.0013	0.0013	0.0014	0.0013	0.0014
5900001077DC031C	D1	0.2339	0.5195		0.0008	0.0010	0.0010	0.0011	0.0011	0.0012	0.0012	0.0012	0.0012	0.0012	0.0013
	D2	0.2344	0.5199		0.0010	0.0011	0.0011	0.0012	0.0013	0.0013	0.0013	0.0013	0.0013	0.0014	0.0014
	D3	0.2358	0.5199		0.0011	0.0012	0.0012	0.0012	0.0013	0.0013	0.0013	0.0013	0.0013	0.0013	0.0014
	D4	0.2359	0.5209		0.0010	0.0011	0.0011	0.0012	0.0012	0.0012	0.0013	0.0013	0.0013	0.0013	0.0014
	D5	0.2346	0.5191		0.0009	0.0010	0.0010	0.0011	0.0012	0.0012	0.0012	0.0012	0.0013	0.0012	0.0013
	D6	0.2349	0.5185		0.0009	0.0009	0.0009	0.0010	0.0010	0.0011	0.0010	0.0011	0.0011	0.0011	0.0011
	D7	0.2345	0.5203		0.0011	0.0012	0.0013	0.0013	0.0014	0.0014	0.0014	0.0015	0.0014	0.0015	0.0015
	D8	0.2353	0.5193		0.0011	0.0011	0.0012	0.0013	0.0013	0.0013	0.0013	0.0014	0.0014	0.0014	0.0014
	D9	0.2351	0.5196		0.0011	0.0011	0.0011	0.0012	0.0012	0.0013	0.0012	0.0013	0.0013	0.0013	0.0013
	D10	0.2334	0.5192		0.0009	0.0010	0.0010	0.0011	0.0011	0.0012	0.0011	0.0012	0.0012	0.0012	0.0012
	D11	0.2343	0.5191		0.0010	0.0010	0.0011	0.0011	0.0011	0.0012	0.0012	0.0012	0.0012	0.0012	0.0012
	D12	0.2342	0.5192		0.0012	0.0012	0.0012	0.0012	0.0013	0.0013	0.0012	0.0013	0.0013	0.0013	0.0013
n					24	24	24	24	24	24	24	24	24	24	24
mean					0.0010	0.0010	0.0011	0.0011	0.0012	0.0012	0.0012	0.0012	0.0013	0.0013	0.0013
median					0.0010	0.0010	0.0010	0.0011	0.0011	0.0012	0.0012	0.0012	0.0013	0.0012	0.0013
std. dev.					0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
min					0.0008	0.0008	0.0009	0.0010	0.0010	0.0011	0.0010	0.0011	0.0011	0.0011	0.0011
max					0.0012	0.0012	0.0013	0.0013	0.0014	0.0014	0.0014	0.0015	0.0014	0.0015	0.0015

Test Condition 1 55 °C 1.050 A															
TABLE 2.5 - CHROMATICITY SHIFT RESULTS															
Test Condition 1 55 °C 1.050 A															
Load board ID	Device number	Zero hour measurements			Photometric test drive current: 1.050 A Photometric test ambient temperature: 25 ± 2 °C Failures observed: none										
		u'	v'		Chromaticity shift ($\Delta u'v'$)										
					12000	13000	14000	15000	16000	17000	18000	19000	20000	21000	22000
18000010849B031C	D1	0.2363	0.5203		0.0014	0.0014	0.0014	0.0015	0.0015	0.0015	0.0016	0.0015	0.0016	0.0016	0.0016
	D2	0.2335	0.5189		0.0013	0.0013	0.0013	0.0013	0.0013	0.0013	0.0014	0.0014	0.0013	0.0014	0.0014
	D3	0.2338	0.5188		0.0012	0.0011	0.0012	0.0012	0.0012	0.0012	0.0013	0.0012	0.0012	0.0012	0.0013
	D4	0.2352	0.5198		0.0012	0.0012	0.0012	0.0012	0.0013	0.0013	0.0013	0.0013	0.0013	0.0014	0.0014
	D5	0.2346	0.5192		0.0013	0.0012	0.0013	0.0013	0.0013	0.0013	0.0014	0.0013	0.0014	0.0014	0.0014
	D6	0.2350	0.5206		0.0013	0.0013	0.0013	0.0013	0.0013	0.0013	0.0014	0.0013	0.0013	0.0013	0.0013
	D7	0.2331	0.5194		0.0014	0.0014	0.0014	0.0014	0.0014	0.0014	0.0015	0.0014	0.0014	0.0014	0.0014
	D8	0.2329	0.5192		0.0012	0.0012	0.0012	0.0013	0.0012	0.0013	0.0013	0.0012	0.0013	0.0014	0.0014
	D9	0.2352	0.5208		0.0013	0.0013	0.0013	0.0013	0.0013	0.0014	0.0014	0.0014	0.0014	0.0014	0.0014
	D10	0.2337	0.5195		0.0014	0.0013	0.0014	0.0014	0.0014	0.0014	0.0015	0.0014	0.0014	0.0015	0.0015
	D11	0.2338	0.5194		0.0013	0.0013	0.0013	0.0013	0.0013	0.0013	0.0014	0.0013	0.0013	0.0013	0.0013
	D12	0.2359	0.5190		0.0014	0.0014	0.0015	0.0014	0.0015	0.0015	0.0015	0.0015	0.0014	0.0015	0.0015
5900001077DC031C	D1	0.2339	0.5195		0.0013	0.0013	0.0013	0.0013	0.0013	0.0013	0.0014	0.0013	0.0014	0.0014	0.0014
	D2	0.2344	0.5199		0.0014	0.0014	0.0015	0.0014	0.0014	0.0014	0.0015	0.0014	0.0015	0.0014	0.0015
	D3	0.2358	0.5199		0.0014	0.0014	0.0014	0.0013	0.0014	0.0014	0.0015	0.0014	0.0014	0.0014	0.0014
	D4	0.2359	0.5209		0.0014	0.0014	0.0014	0.0014	0.0014	0.0014	0.0015	0.0014	0.0014	0.0014	0.0014
	D5	0.2346	0.5191		0.0013	0.0013	0.0013	0.0013	0.0013	0.0013	0.0014	0.0014	0.0014	0.0014	0.0014
	D6	0.2349	0.5185		0.0012	0.0012	0.0012	0.0012	0.0012	0.0012	0.0013	0.0012	0.0013	0.0012	0.0013
	D7	0.2345	0.5203		0.0015	0.0015	0.0016	0.0015	0.0016	0.0015	0.0016	0.0016	0.0016	0.0016	0.0016
	D8	0.2353	0.5193		0.0014	0.0014	0.0015	0.0015	0.0015	0.0015	0.0016	0.0015	0.0015	0.0015	0.0015
	D9	0.2351	0.5196		0.0013	0.0014	0.0014	0.0014	0.0014	0.0014	0.0014	0.0015	0.0015	0.0014	0.0014
	D10	0.2334	0.5192		0.0012	0.0012	0.0013	0.0013	0.0013	0.0013	0.0014	0.0013	0.0013	0.0014	0.0014
	D11	0.2343	0.5191		0.0013	0.0013	0.0013	0.0013	0.0013	0.0013	0.0013	0.0013	0.0013	0.0013	0.0013
	D12	0.2342	0.5192		0.0013	0.0014	0.0014	0.0014	0.0014	0.0014	0.0014	0.0014	0.0013	0.0014	0.0014
n					24	24	24	24	24	24	24	24	24	24	24
mean					0.0013	0.0013	0.0013	0.0013	0.0014	0.0014	0.0014	0.0014	0.0014	0.0014	0.0014
median					0.0013	0.0013	0.0013	0.0013	0.0013	0.0014	0.0014	0.0014	0.0014	0.0014	0.0014
std. dev.					0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
min					0.0012	0.0011	0.0012	0.0012	0.0012	0.0012	0.0013	0.0012	0.0012	0.0012	0.0013
max					0.0015	0.0015	0.0016	0.0015	0.0016	0.0015	0.0016	0.0016	0.0016	0.0016	0.0016

Test Condition 1 55 °C 1.050 A														
TABLE 2.5 - CHROMATICITY SHIFT RESULTS														
Test Condition 1 55 °C 1.050 A														
Load board ID	Device number	Zero hour measurements			Photometric test drive current: 1.050 A Photometric test ambient temperature: 25 ± 2 °C Failures observed: none									
		u'	v'		Chromaticity shift ($\Delta u'v'$)									
					23000	24000	25000							
18000010849B031C	D1	0.2363	0.5203		0.0017	0.0017	0.0017							
	D2	0.2335	0.5189		0.0015	0.0014	0.0013							
	D3	0.2338	0.5188		0.0013	0.0012	0.0012							
	D4	0.2352	0.5198		0.0014	0.0013	0.0013							
	D5	0.2346	0.5192		0.0014	0.0014	0.0013							
	D6	0.2350	0.5206		0.0014	0.0013	0.0013							
	D7	0.2331	0.5194		0.0015	0.0015	0.0014							
	D8	0.2329	0.5192		0.0014	0.0014	0.0013							
	D9	0.2352	0.5208		0.0014	0.0014	0.0014							
	D10	0.2337	0.5195		0.0016	0.0015	0.0015							
	D11	0.2338	0.5194		0.0014	0.0013	0.0013							
	D12	0.2359	0.5190		0.0015	0.0015	0.0015							
5900001077DC031C	D1	0.2339	0.5195		0.0016	0.0015	0.0014							
	D2	0.2344	0.5199		0.0015	0.0015	0.0014							
	D3	0.2358	0.5199		0.0015	0.0014	0.0014							
	D4	0.2359	0.5209		0.0015	0.0014	0.0014							
	D5	0.2346	0.5191		0.0015	0.0015	0.0014							
	D6	0.2349	0.5185		0.0013	0.0013	0.0012							
	D7	0.2345	0.5203		0.0017	0.0016	0.0016							
	D8	0.2353	0.5193		0.0016	0.0015	0.0015							
	D9	0.2351	0.5196		0.0015	0.0015	0.0014							
	D10	0.2334	0.5192		0.0015	0.0014	0.0014							
	D11	0.2343	0.5191		0.0014	0.0013	0.0013							
	D12	0.2342	0.5192		0.0015	0.0014	0.0013							
n					24	24	24							
mean					0.0015	0.0014	0.0014							
median					0.0015	0.0014	0.0014							
std. dev.					0.0001	0.0001	0.0001							
min					0.0013	0.0012	0.0012							
max					0.0017	0.0017	0.0017							

Test Condition 1				55 °C		1.050 A								
TABLE 2.6 - FORWARD VOLTAGE MAINTENANCE RESULTS													GW CSSRM2.EM	
Test Condition 1				55 °C		1.050 A								
Load board ID	Device number	Zero hour measurements		Photometric test drive current: 1.050 A Photometric test ambient temperature: 25 ± 2 °C Failures observed: none										
		Vf (V)		Forward Voltage Maintainence (%)										
				1000	2000	3000	4000	5000	6000	7000	8000	9000	10000	11000
18000010849B031C	D1		3.51	95.95	95.30	95.00	94.86	94.72	94.67	94.97	94.77	94.79	94.60	95.24
	D2		3.44	97.85	97.81	97.67	97.55	97.44	97.71	97.94	97.54	97.76	97.55	97.99
	D3		3.52	97.33	97.13	97.04	96.88	96.97	97.01	97.12	96.87	96.97	96.82	97.02
	D4		3.51	97.20	96.86	96.77	96.67	96.71	96.49	96.81	96.58	96.56	96.52	96.99
	D5		3.63	96.38	95.87	95.93	95.65	95.54	95.62	95.64	95.56	95.34	95.39	95.77
	D6		3.55	97.79	97.38	97.51	97.22	97.25	97.33	97.32	97.49	97.07	97.48	97.24
	D7		3.53	96.77	96.56	96.45	96.43	96.72	96.41	96.53	96.63	96.40	96.81	96.55
	D8		3.51	97.74	97.52	97.42	97.45	97.65	97.48	97.46	97.40	97.33	97.39	97.46
	D9		3.63	96.84	96.41	96.36	96.29	96.07	96.12	96.18	96.10	95.92	95.90	96.05
	D10		3.66	96.45	96.06	95.93	95.91	95.70	95.64	95.76	95.76	95.53	95.52	95.72
	D11		3.56	97.78	97.61	97.46	97.49	97.56	97.43	97.63	97.37	97.44	97.28	97.60
	D12		3.61	96.21	95.83	95.72	95.56	95.75	95.45	95.74	95.34	95.76	95.26	95.46
5900001077DC031C	D1		3.42	97.22	96.59	96.35	96.41	96.18	96.10	96.22	96.05	96.25	96.39	95.95
	D2		3.41	98.70	98.42	98.29	98.50	98.36	98.21	98.49	98.25	98.30	98.30	98.13
	D3		3.55	96.53	96.25	96.07	96.11	95.93	95.82	95.96	96.04	95.83	95.72	95.71
	D4		3.56	96.54	96.17	96.05	96.10	95.91	95.80	95.81	96.02	95.81	95.68	95.59
	D5		3.55	97.74	97.47	97.48	97.38	97.43	97.30	97.38	97.38	97.09	97.14	97.13
	D6		3.64	96.05	95.63	95.58	95.42	95.42	95.43	95.43	95.22	95.11	95.21	95.01
	D7		3.51	97.07	96.90	96.99	96.88	97.01	97.01	97.02	97.48	96.81	96.86	96.71
	D8		3.59	96.27	95.92	95.90	95.78	95.80	95.70	95.78	96.34	95.68	95.64	95.56
	D9		3.61	97.13	96.76	96.73	96.74	96.76	96.73	96.90	96.81	96.83	97.26	96.57
	D10		3.56	97.50	97.37	97.37	97.40	97.46	97.56	97.71	97.53	97.51	98.04	97.35
	D11		3.58	97.47	97.26	97.15	97.17	97.05	97.14	97.16	97.07	97.02	97.10	96.83
	D12		3.50	98.31	98.12	98.04	98.06	98.02	97.98	97.95	98.05	97.90	97.93	97.72
n				24	24	24	24	24	24	24	24	24	24	24
mean				97.1	96.8	96.7	96.7	96.6	96.6	96.7	96.7	96.5	96.6	96.6
median				97.2	96.8	96.7	96.7	96.7	96.6	96.9	96.7	96.7	96.8	96.6
std. dev.				0.7	0.8	0.8	0.9	0.9	0.9	0.9	0.9	0.9	1.0	0.9
min				95.9	95.3	95.0	94.9	94.7	94.7	95.0	94.8	94.8	94.6	95.0
max				98.7	98.4	98.3	98.5	98.4	98.2	98.5	98.3	98.3	98.3	98.1

Test Condition 1 55 °C 1.050 A														
TABLE 2.6 - FORWARD VOLTAGE MAINTENANCE RESULTS													GW CSSRM2.EM	
Test Condition 1 55 °C 1.050 A														
Load board ID	Device number	Zero hour measurements		Photometric test drive current: 1.050 A Photometric test ambient temperature: 25 ± 2 °C Failures observed: none										
		Vf (V)	Forward Voltage Maintainence (%)											
			12000	13000	14000	15000	16000	17000	18000	19000	20000	21000	22000	
18000010849B031C	D1		3.51	94.92	94.93	95.01	94.95	94.82	95.12	94.59	94.66	94.58	94.22	94.55
	D2		3.44	97.71	97.70	98.07	98.16	97.83	97.70	97.61	98.07	97.70	97.49	97.80
	D3		3.52	96.85	96.80	96.74	97.17	96.71	96.78	96.65	97.13	97.04	96.81	97.12
	D4		3.51	96.41	96.41	96.38	97.55	96.36	96.48	96.34	96.43	96.57	96.38	96.59
	D5		3.63	95.38	95.35	95.17	96.81	95.53	95.34	95.30	95.32	95.66	95.68	95.82
	D6		3.55	98.10	97.23	97.12	98.09	97.87	97.32	97.21	97.77	97.60	98.16	97.68
	D7		3.53	97.28	96.35	96.46	97.92	96.80	96.82	96.48	97.01	96.54	96.85	96.27
	D8		3.51	97.33	97.22	97.28	98.45	97.27	97.64	97.33	97.43	97.43	97.13	97.11
	D9		3.63	95.93	95.96	95.88	95.90	95.90	96.28	96.04	95.88	95.89	95.83	95.75
	D10		3.66	95.57	95.76	95.51	95.55	95.62	96.20	95.70	95.52	95.50	95.50	95.40
	D11		3.56	97.72	97.57	97.38	98.16	97.45	97.54	97.24	97.40	97.39	97.25	97.53
	D12		3.61	95.80	95.45	95.30	95.99	95.32	95.14	95.25	95.42	95.39	95.02	95.46
5900001077DC031C	D1		3.42	96.22	96.39	95.81	96.65	96.20	96.13	96.43	96.30	96.24	95.99	96.28
	D2		3.41	98.32	98.41	97.92	99.40	98.30	98.33	98.70	98.85	98.63	98.23	98.51
	D3		3.55	95.81	96.05	95.46	96.66	95.61	95.81	96.37	95.98	95.79	95.55	95.82
	D4		3.56	95.86	96.00	95.43	96.89	95.52	95.79	96.09	95.62	95.67	95.49	95.45
	D5		3.55	97.37	97.33	96.97	98.41	97.16	97.24	97.39	97.23	97.35	97.14	97.10
	D6		3.64	95.47	95.20	94.90	96.37	95.20	95.12	95.44	95.41	95.13	95.09	95.34
	D7		3.51	97.07	96.80	96.56	98.56	97.02	96.84	97.05	96.95	97.11	96.69	97.31
	D8		3.59	95.60	95.80	95.40	96.45	95.81	95.71	95.74	95.53	96.04	95.46	95.78
	D9		3.61	96.74	96.98	96.46	96.63	96.75	97.01	96.86	97.05	97.04	96.80	96.64
	D10		3.56	97.53	97.45	97.15	97.34	97.37	97.65	97.51	97.79	97.72	97.46	97.43
	D11		3.58	97.02	96.93	96.72	96.97	96.89	96.94	96.99	97.08	97.12	96.82	97.00
	D12		3.50	97.93	97.94	97.70	98.09	97.88	97.89	97.85	97.98	98.21	97.82	97.81
n				24	24	24	24	24	24	24	24	24	24	
mean				96.7	96.6	96.4	97.2	96.6	96.6	96.6	96.7	96.6	96.5	
median				96.8	96.6	96.5	97.1	96.7	96.8	96.6	97.0	96.8	96.7	
std. dev.				1.0	0.9	1.0	1.1	1.0	1.0	1.0	1.1	1.0	1.1	
min				94.9	94.9	94.9	94.9	94.8	95.1	94.6	94.7	94.6	94.2	
max				98.3	98.4	98.1	99.4	98.3	98.3	98.7	98.9	98.6	98.2	

Test Condition 1				55 °C	1.050 A										
TABLE 2.6 - FORWARD VOLTAGE MAINTENANCE RESULTS															GW CSSRM2.EM
Test Condition 1				55 °C	1.050 A										
Load board ID	Device number	Zero hour measurements		Photometric test drive current: 1.050 A Photometric test ambient temperature: 25 ± 2 °C Failures observed: none											
		Vf (V)	Forward Voltage Maintainence (%)												
			23000	24000	25000										
18000010849B031C	D1		3.51	94.89	96.18	96.20									
	D2		3.44	97.47	97.56	99.45									
	D3		3.52	96.73	96.93	97.77									
	D4		3.51	96.34	96.49	97.00									
	D5		3.63	95.47	95.18	97.15									
	D6		3.55	97.43	97.33	99.35									
	D7		3.53	96.30	96.48	96.62									
	D8		3.51	97.09	97.12	97.17									
	D9		3.63	95.67	96.14	95.81									
	D10		3.66	95.85	95.82	95.60									
	D11		3.56	98.41	97.24	97.46									
	D12		3.61	96.16	95.13	95.19									
5900001077DC031C	D1		3.42	96.12	96.78	96.24									
	D2		3.41	98.61	100.21	99.03									
	D3		3.55	95.97	96.92	96.21									
	D4		3.56	95.53	95.68	95.66									
	D5		3.55	97.10	97.30	97.43									
	D6		3.64	95.05	95.50	95.35									
	D7		3.51	96.78	97.27	96.91									
	D8		3.59	95.61	95.97	95.65									
	D9		3.61	96.89	97.13	97.88									
	D10		3.56	97.56	97.54	98.51									
	D11		3.58	96.88	96.92	96.96									
	D12		3.50	97.78	97.82	98.07									
n				24	24	24									
mean				96.6	96.8	97.0									
median				96.5	96.9	97.0									
std. dev.				1.0	1.1	1.2									
min				94.9	95.1	95.2									
max				98.6	100.2	99.4									

Test Condition 2 85 °C 1.050 A														
TABLE 3.0 - LUMEN MAINTENANCE RESULTS														GW CSSRM2.EM
Test Condition 2 85 °C 1.050 A														
Load board ID	Device number	Zero hour measurements		Photometric test drive current: 1.050 A Photometric test ambient temperature: 25 ± 2 °C Failures observed: none										
		Flux (lm)	Vf (V)	Lumen Maintenance (%)										
				1000	2000	3000	4000	5000	6000	7000	8000	9000	10000	11000
5B00001073C7031C	D1	394.55	3.36	99.9	99.9	99.8	99.9	99.8	99.7	99.8	99.8	99.9	100.0	99.9
	D2	389.49	3.49	100.6	100.6	100.6	100.7	100.6	100.6	100.7	100.7	100.7	100.9	100.9
	D3	383.20	3.46	100.6	100.6	100.7	100.8	100.7	100.7	100.7	100.8	100.9	101.1	101.0
	D4	384.37	3.48	100.2	100.2	100.3	100.4	100.3	100.2	100.3	100.3	100.5	100.6	100.5
	D5	392.21	3.68	100.2	100.1	100.1	100.2	100.1	100.1	100.1	100.1	100.2	100.4	100.2
	D6	393.42	3.56	100.1	100.1	100.2	100.2	100.2	100.1	100.2	100.1	100.2	100.4	100.3
	D7	398.50	3.49	99.9	99.7	99.7	99.7	99.6	99.5	99.5	99.5	99.6	99.8	99.7
	D8	392.06	3.58	100.1	100.0	100.0	100.1	100.1	100.0	100.1	100.0	100.2	100.4	100.3
	D9	393.95	3.60	100.0	100.0	100.0	100.2	100.1	100.1	100.2	100.1	100.3	100.4	100.3
	D10	391.62	3.62	100.7	100.7	100.8	100.9	100.8	100.8	100.9	100.9	101.0	101.2	101.1
	D11	389.71	3.61	100.1	100.1	100.1	100.1	100.0	99.9	99.9	99.9	99.9	100.1	100.0
	D12	394.28	3.52	100.0	100.0	100.0	100.1	100.0	99.9	100.0	100.0	100.1	100.3	100.2
960000108055031C	D1	391.45	3.52	100.5	100.3	100.3	100.4	100.3	100.3	100.3	100.3	100.4	100.5	100.4
	D2	392.67	3.45	99.6	99.5	99.5	99.6	99.5	99.4	99.5	99.5	99.6	99.7	99.6
	D3	386.03	3.43	99.3	99.1	99.0	99.0	98.7	98.6	98.6	98.6	98.6	98.6	98.5
	D4	391.67	3.50	100.7	100.6	100.7	100.8	100.7	100.7	100.8	100.8	101.0	101.1	101.0
	D5	391.37	3.53	99.8	99.7	99.7	99.8	99.6	99.6	99.6	99.5	99.6	99.7	99.6
	D6	397.66	3.64	99.8	99.5	99.5	99.5	99.4	99.4	99.5	99.5	99.5	99.7	99.6
	D7	388.74	3.51	100.3	100.4	100.6	100.7	100.6	100.6	100.7	100.7	100.8	100.9	100.9
	D8	389.76	3.53	101.0	101.0	101.1	101.2	101.1	101.2	101.2	101.2	101.4	101.5	101.4
	D9	393.46	3.59	100.5	100.4	100.5	100.6	100.5	100.5	100.6	100.5	100.7	100.8	100.7
	D10	395.24	3.60	100.4	100.4	100.5	100.5	100.4	100.4	100.4	100.4	100.5	100.7	100.6
	D11	394.47	3.58	100.4	100.3	100.4	100.4	100.3	100.3	100.3	100.4	100.5	100.6	100.6
	D12	387.29	3.52	100.2	100.1	100.2	100.3	100.1	100.1	100.1	100.1	100.2	100.3	100.2
n mean median std. dev. min max				24	24	24	24	24	24	24	24	24	24	24
				100.2	100.1	100.2	100.3	100.1	100.1	100.2	100.2	100.3	100.4	100.3
				100.2	100.1	100.2	100.3	100.2	100.1	100.2	100.1	100.2	100.4	100.3
				0.4	0.4	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.6
				99.3	99.1	99.0	99.0	98.7	98.6	98.6	98.6	98.6	98.6	98.5
				101.0	101.0	101.1	101.2	101.1	101.2	101.2	101.2	101.4	101.5	101.4

Test Condition 2 85 °C 1.050 A														
TABLE 3.0 - LUMEN MAINTENANCE RESULTS													GW CSSRM2.EM	
Test Condition 2 85 °C 1.050 A														
Load board ID	Device number	Zero hour measurements		Photometric test drive current: 1.050 A Photometric test ambient temperature: 25 ± 2 °C Failures observed: none										
		Flux (lm)	Vf (V)	Lumen Maintenance (%)										
				12000	13000	14000	15000	16000	17000	18000	19000	20000	21000	22000
5B00001073C7031C	D1	394.55	3.36	99.9	99.9	99.9	100.0	99.8	99.9	100.0	99.7	99.6	99.5	99.5
	D2	389.49	3.49	100.8	100.8	100.9	100.8	100.8	100.9	100.9	100.7	100.5	100.4	100.5
	D3	383.20	3.46	101.0	101.0	101.0	101.0	100.9	101.0	101.1	100.9	100.7	100.7	100.7
	D4	384.37	3.48	100.6	100.6	100.6	100.6	100.5	100.6	100.7	100.5	100.3	100.3	100.3
	D5	392.21	3.68	100.3	100.3	100.3	100.3	100.2	100.3	100.3	100.2	100.0	100.0	100.0
	D6	393.42	3.56	100.3	100.3	100.3	100.3	100.3	100.3	100.4	100.2	100.0	100.0	100.0
	D7	398.50	3.49	99.6	99.6	99.6	99.6	99.5	99.6	99.7	99.4	99.3	99.2	99.2
	D8	392.06	3.58	100.3	100.3	100.3	100.3	100.3	100.3	100.4	100.2	100.1	100.0	100.0
	D9	393.95	3.60	100.4	100.3	100.4	100.3	100.3	100.4	100.4	100.2	100.1	100.0	100.0
	D10	391.62	3.62	101.1	101.1	101.1	101.1	101.1	101.1	101.2	101.0	100.9	100.8	100.8
	D11	389.71	3.61	100.0	99.9	99.9	99.9	99.8	99.8	99.9	99.7	99.5	99.4	99.3
	D12	394.28	3.52	100.2	100.2	100.2	100.2	100.1	100.2	100.3	100.0	99.9	99.8	99.8
960000108055031C	D1	391.45	3.52	100.5	100.5	100.5	100.5	100.4	100.5	100.6	100.4	100.1	100.0	100.0
	D2	392.67	3.45	99.7	99.7	99.6	99.7	99.5	99.6	99.7	99.5	99.3	99.2	99.3
	D3	386.03	3.43	98.5	98.4	98.3	98.3	98.2	98.2	98.2	98.0	97.7	97.6	97.6
	D4	391.67	3.50	101.1	101.1	101.0	101.0	100.9	101.0	101.1	100.9	100.7	100.6	100.7
	D5	391.37	3.53	99.6	99.5	99.5	99.5	99.3	99.4	99.4	99.2	99.0	98.8	98.9
	D6	397.66	3.64	99.6	99.6	99.6	99.6	99.5	99.5	99.6	99.4	99.3	99.2	99.2
	D7	388.74	3.51	100.9	100.9	100.9	100.8	100.8	100.8	100.9	100.7	100.5	100.4	100.4
	D8	389.76	3.53	101.5	101.5	101.5	101.5	101.4	101.5	101.6	101.3	101.2	101.1	101.2
	D9	393.46	3.59	100.8	100.7	100.7	100.7	100.6	100.7	100.8	100.6	100.4	100.4	100.4
	D10	395.24	3.60	100.6	100.6	100.6	100.6	100.5	100.6	100.7	100.5	100.3	100.2	100.2
	D11	394.47	3.58	100.5	100.5	100.5	100.5	100.4	100.5	100.6	100.4	100.2	100.1	100.1
	D12	387.29	3.52	100.2	100.1	100.2	100.1	99.9	99.9	100.1	99.8	99.6	99.5	99.5
n				24	24	24	24	24	24	24	24	24	24	24
mean				100.3	100.3	100.3	100.3	100.2	100.3	100.4	100.1	100.0	99.9	99.9
median				100.4	100.3	100.4	100.3	100.3	100.3	100.4	100.2	100.1	100.0	100.0
std. dev.				0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.8
min				98.5	98.4	98.3	98.3	98.2	98.2	98.2	98.0	97.7	97.6	97.6
max				101.5	101.5	101.5	101.5	101.4	101.5	101.6	101.3	101.2	101.1	101.2

Test Condition 2 85 °C 1.050 A														
TABLE 3.0 - LUMEN MAINTENANCE RESULTS														
Test Condition 2 85 °C 1.050 A														
Load board ID	Device number	Zero hour measurements		Photometric test drive current: 1.050 A										
		Flux (lm)	Vf (V)	Photometric test ambient temperature: 25 ± 2 °C										
				Failures observed: none										
				Lumen Maintenance (%)										
				23000	24000	25000								
5B00001073C7031C	D1	394.55	3.36	99.3	99.3	99.2								
	D2	389.49	3.49	100.3	100.2	100.2								
	D3	383.20	3.46	100.5	100.5	100.4								
	D4	384.37	3.48	100.2	100.1	100.0								
	D5	392.21	3.68	99.9	99.7	99.7								
	D6	393.42	3.56	99.8	99.7	99.7								
	D7	398.50	3.49	99.1	99.0	99.0								
	D8	392.06	3.58	99.9	99.8	99.8								
	D9	393.95	3.60	99.9	99.8	99.8								
	D10	391.62	3.62	100.7	100.6	100.7								
	D11	389.71	3.61	99.2	99.1	99.1								
	D12	394.28	3.52	99.7	99.6	99.6								
960000108055031C	D1	391.45	3.52	99.9	99.8	99.7								
	D2	392.67	3.45	99.1	99.0	98.9								
	D3	386.03	3.43	97.4	97.3	97.2								
	D4	391.67	3.50	100.6	100.4	100.4								
	D5	391.37	3.53	98.7	98.5	98.5								
	D6	397.66	3.64	99.0	98.9	98.9								
	D7	388.74	3.51	100.3	100.1	100.1								
	D8	389.76	3.53	101.0	100.9	100.9								
	D9	393.46	3.59	100.2	100.1	100.1								
	D10	395.24	3.60	100.1	100.0	99.9								
	D11	394.47	3.58	100.0	99.9	99.9								
	D12	387.29	3.52	99.4	99.3	99.2								
n				24	24	24								
mean				99.8	99.6	99.6								
median				99.9	99.8	99.8								
std. dev.				0.8	0.8	0.8								
min				97.4	97.3	97.2								
max				101.0	100.9	100.9								

Test Condition 2 85 °C 1.050 A														
TABLE 3.1 - RADIANT FLUX MAINTENANCE RESULTS														GW CSSRM2.EM
Test Condition 2 85 °C 1.050 A														
Load board ID	Device number	Zero hour measurements		Photometric test drive current: 1.050 A Photometric test ambient temperature: 25 ± 2 °C Failures observed: none										
		Flux (W)	VF (V)	Radiant Flux Maintenance (%)										
				1000	2000	3000	4000	5000	6000	7000	8000	9000	10000	11000
5B00001073C7031C	D1	1.1963	3.36	99.8	99.6	99.5	99.6	99.4	99.3	99.4	99.4	99.4	99.5	99.4
	D2	1.1799	3.49	100.4	100.3	100.3	100.4	100.2	100.2	100.3	100.2	100.3	100.5	100.4
	D3	1.1631	3.46	100.4	100.4	100.4	100.5	100.4	100.3	100.4	100.4	100.6	100.7	100.6
	D4	1.1701	3.48	100.0	100.0	100.0	100.1	100.0	99.8	99.9	99.9	100.0	100.2	100.1
	D5	1.1819	3.68	100.0	99.7	99.8	99.8	99.7	99.6	99.6	99.6	99.7	99.8	99.7
	D6	1.1876	3.56	99.9	99.8	99.8	99.9	99.8	99.7	99.8	99.7	99.8	100.0	99.9
	D7	1.2035	3.49	99.7	99.5	99.4	99.4	99.3	99.2	99.2	99.2	99.3	99.4	99.3
	D8	1.1882	3.58	99.9	99.8	99.7	99.8	99.7	99.6	99.7	99.7	99.9	100.0	100.0
	D9	1.1881	3.60	99.7	99.7	99.7	99.9	99.8	99.7	99.8	99.7	99.9	100.0	99.9
	D10	1.1869	3.62	100.4	100.4	100.5	100.6	100.5	100.4	100.5	100.5	100.6	100.8	100.7
	D11	1.1777	3.61	99.8	99.7	99.6	99.7	99.5	99.4	99.4	99.4	99.4	99.5	99.4
	D12	1.1926	3.52	99.8	99.7	99.7	99.8	99.7	99.6	99.7	99.6	99.7	99.9	99.8
960000108055031C	D1	1.1827	3.52	100.2	100.0	100.0	100.0	99.8	99.8	99.8	99.8	99.9	100.0	99.9
	D2	1.1903	3.45	99.4	99.2	99.3	99.3	99.2	99.1	99.1	99.2	99.2	99.4	99.3
	D3	1.1721	3.43	99.1	98.8	98.7	98.7	98.4	98.3	98.3	98.2	98.2	98.3	98.2
	D4	1.1858	3.50	100.5	100.3	100.4	100.5	100.3	100.3	100.4	100.4	100.5	100.7	100.6
	D5	1.1780	3.53	99.5	99.3	99.4	99.4	99.1	99.1	99.1	99.0	99.0	99.2	99.0
	D6	1.2000	3.64	99.6	99.3	99.3	99.3	99.1	99.0	99.1	99.1	99.1	99.3	99.2
	D7	1.1756	3.51	100.1	100.0	100.1	100.2	100.0	100.0	100.1	100.0	100.2	100.3	100.2
	D8	1.1779	3.53	100.7	100.6	100.7	100.8	100.7	100.7	100.7	100.8	100.9	101.1	100.9
	D9	1.1847	3.59	100.2	100.0	100.1	100.2	100.0	100.0	100.1	100.0	100.1	100.3	100.2
	D10	1.1941	3.60	100.1	100.0	100.0	100.0	99.8	99.8	99.9	99.9	99.9	100.1	100.0
	D11	1.1953	3.58	100.2	100.0	100.0	100.1	99.9	99.9	99.9	100.0	100.1	100.2	100.1
	D12	1.1714	3.52	99.8	99.6	99.7	99.7	99.4	99.4	99.4	99.4	99.5	99.6	99.4
n mean median std. dev. min max				24	24	24	24	24	24	24	24	24	24	24
				100.0	99.8	99.8	99.9	99.7	99.7	99.7	99.7	99.8	99.9	99.9
				100.0	99.8	99.8	99.9	99.8	99.7	99.8	99.7	99.9	100.0	99.9
				0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6
				99.1	98.8	98.7	98.7	98.4	98.3	98.3	98.2	98.2	98.3	98.2
				100.7	100.6	100.7	100.8	100.7	100.7	100.7	100.8	100.9	101.1	100.9

Test Condition 2 85 °C 1.050 A														
TABLE 3.1 - RADIANT FLUX MAINTENANCE RESULTS														GW CSSRM2.EM
Test Condition 2 85 °C 1.050 A														
Load board ID	Device number	Zero hour measurements		Photometric test drive current: 1.050 A Photometric test ambient temperature: 25 ± 2 °C Failures observed: none										
		Flux (W)	VF (V)	Radiant Flux Maintenance (%)										
				12000	13000	14000	15000	16000	17000	18000	19000	20000	21000	22000
5B00001073C7031C	D1	1.1963	3.36	99.4	99.4	99.4	99.5	99.3	99.4	99.4	99.2	99.1	98.9	99.0
	D2	1.1799	3.49	100.4	100.4	100.4	100.4	100.3	100.4	100.4	100.3	100.0	100.0	100.0
	D3	1.1631	3.46	100.6	100.6	100.6	100.6	100.5	100.6	100.7	100.5	100.3	100.3	100.3
	D4	1.1701	3.48	100.1	100.1	100.1	100.1	100.1	100.1	100.2	100.0	99.8	99.8	99.8
	D5	1.1819	3.68	99.7	99.7	99.8	99.7	99.6	99.7	99.7	99.6	99.4	99.4	99.4
	D6	1.1876	3.56	99.9	99.9	99.8	99.9	99.8	99.8	99.9	99.7	99.5	99.5	99.5
	D7	1.2035	3.49	99.3	99.3	99.3	99.3	99.2	99.3	99.3	99.1	98.9	98.9	98.9
	D8	1.1882	3.58	99.9	99.9	99.9	99.9	99.9	99.9	100.0	99.8	99.6	99.6	99.6
	D9	1.1881	3.60	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.8	99.6	99.6	99.6
	D10	1.1869	3.62	100.6	100.6	100.6	100.6	100.6	100.7	100.7	100.5	100.4	100.4	100.4
	D11	1.1777	3.61	99.3	99.3	99.3	99.3	99.2	99.3	99.2	99.0	98.8	98.8	98.7
	D12	1.1926	3.52	99.7	99.8	99.7	99.8	99.7	99.8	99.8	99.6	99.4	99.3	99.4
960000108055031C	D1	1.1827	3.52	100.0	100.0	99.9	100.0	99.9	99.9	99.9	99.8	99.6	99.5	99.5
	D2	1.1903	3.45	99.3	99.3	99.3	99.3	99.2	99.2	99.3	99.1	99.0	98.8	98.9
	D3	1.1721	3.43	98.1	98.1	98.0	98.0	97.8	97.8	97.8	97.6	97.4	97.3	97.3
	D4	1.1858	3.50	100.6	100.6	100.6	100.6	100.5	100.5	100.6	100.4	100.3	100.2	100.2
	D5	1.1780	3.53	99.0	99.0	98.9	99.0	98.7	98.8	98.8	98.6	98.4	98.3	98.2
	D6	1.2000	3.64	99.2	99.2	99.2	99.2	99.1	99.1	99.2	99.0	98.8	98.7	98.7
	D7	1.1756	3.51	100.2	100.2	100.1	100.1	100.0	100.0	100.1	100.0	99.7	99.7	99.7
	D8	1.1779	3.53	101.0	101.0	101.0	101.0	100.9	100.9	101.0	100.8	100.6	100.6	100.6
	D9	1.1847	3.59	100.2	100.2	100.2	100.2	100.1	100.1	100.2	100.0	99.8	99.8	99.8
	D10	1.1941	3.60	100.0	100.0	100.0	100.0	99.9	99.9	100.0	99.8	99.6	99.6	99.5
	D11	1.1953	3.58	100.1	100.1	100.1	100.1	99.9	100.0	100.1	99.9	99.7	99.6	99.6
	D12	1.1714	3.52	99.4	99.4	99.4	99.3	99.2	99.1	99.2	99.0	98.8	98.7	98.7
n mean median std. dev. min max				24	24	24	24	24	24	24	24	24	24	24
				99.8	99.8	99.8	99.8	99.7	99.8	99.8	99.6	99.4	99.4	99.4
				99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.8	99.6	99.5	99.5
				0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
				98.1	98.1	98.0	98.0	97.8	97.8	97.8	97.6	97.4	97.3	97.3
				101.0	101.0	101.0	101.0	100.9	100.9	101.0	100.8	100.6	100.6	100.6

Test Condition 285 °C1.050 A													
TABLE 3.1 - RADIANT FLUX MAINTENANCE RESULTS												GW CSSRM2.EM	
Test Condition 285 °C1.050 A													
Load board ID	Device number	Zero hour measurements		Photometric test drive current: 1.050 A Photometric test ambient temperature: 25 ± 2 °C Failures observed: none									
		Flux (W)	VF (V)	Radiant Flux Maintenance (%)									
				23000	24000	25000							
5B00001073C7031C	D1	1.1963	3.36	98.8	98.7	98.6							
	D2	1.1799	3.49	99.8	99.7	99.7							
	D3	1.1631	3.46	100.1	100.0	99.9							
	D4	1.1701	3.48	99.7	99.6	99.5							
	D5	1.1819	3.68	99.2	99.1	99.0							
	D6	1.1876	3.56	99.3	99.2	99.1							
	D7	1.2035	3.49	98.7	98.6	98.6							
	D8	1.1882	3.58	99.5	99.3	99.3							
	D9	1.1881	3.60	99.4	99.3	99.2							
	D10	1.1869	3.62	100.2	100.1	100.1							
	D11	1.1777	3.61	98.5	98.4	98.4							
	D12	1.1926	3.52	99.2	99.1	99.0							
960000108055031C	D1	1.1827	3.52	99.3	99.2	99.1							
	D2	1.1903	3.45	98.7	98.6	98.5							
	D3	1.1721	3.43	97.1	96.9	96.9							
	D4	1.1858	3.50	100.1	99.9	99.9							
	D5	1.1780	3.53	98.1	97.9	97.9							
	D6	1.2000	3.64	98.6	98.4	98.4							
	D7	1.1756	3.51	99.5	99.4	99.4							
	D8	1.1779	3.53	100.5	100.3	100.3							
	D9	1.1847	3.59	99.6	99.5	99.5							
	D10	1.1941	3.60	99.4	99.3	99.3							
	D11	1.1953	3.58	99.5	99.3	99.4							
	D12	1.1714	3.52	98.5	98.4	98.4							
n				24	24	24							
mean				99.2	99.1	99.1							
median				99.4	99.2	99.2							
std. dev.				0.8	0.8	0.8							
min				97.1	96.9	96.9							
max				100.5	100.3	100.3							

Test Condition 285 °C1.050 A														
TABLE 3.2 - PHOTOSYNTHETIC PHOTON FLUX MAINTENANCE RESULTS													GW CSSRM2.EM	
Test Condition 285 °C1.050 A														
Load board ID	Device number	Zero hour measurements		Photometric test drive current: 1.050 A Photometric test ambient temperature: 25 ± 2 °C Failures observed: none										
		PPF (μmol/s)	VF (V)	Photosynthetic Photon Flux Maintenance (%)										
				1000	2000	3000	4000	5000	6000	7000	8000	9000	10000	11000
5B00001073C7031C	D1	5.5239	3.36	99.7	99.5	99.4	99.5	99.4	99.3	99.4	99.3	99.4	99.5	99.4
	D2	5.4533	3.49	100.4	100.2	100.3	100.3	100.2	100.1	100.2	100.2	100.3	100.5	100.4
	D3	5.3829	3.46	100.3	100.3	100.3	100.4	100.3	100.2	100.3	100.3	100.5	100.6	100.5
	D4	5.4109	3.48	100.0	99.9	99.9	100.0	99.9	99.8	99.8	99.9	100.0	100.1	100.0
	D5	5.4620	3.68	99.9	99.7	99.7	99.7	99.6	99.5	99.6	99.5	99.6	99.8	99.7
	D6	5.4944	3.56	99.8	99.7	99.8	99.8	99.7	99.6	99.7	99.7	99.8	99.9	99.8
	D7	5.5539	3.49	99.6	99.4	99.4	99.4	99.2	99.1	99.2	99.1	99.2	99.4	99.3
	D8	5.4887	3.58	99.9	99.7	99.7	99.8	99.6	99.5	99.7	99.6	99.8	99.9	99.9
	D9	5.4865	3.60	99.7	99.6	99.7	99.8	99.7	99.6	99.7	99.7	99.8	100.0	99.9
	D10	5.4812	3.62	100.4	100.3	100.4	100.5	100.4	100.3	100.4	100.4	100.5	100.7	100.6
	D11	5.4354	3.61	99.8	99.7	99.7	99.7	99.5	99.4	99.4	99.4	99.4	99.6	99.5
	D12	5.5041	3.52	99.8	99.7	99.7	99.7	99.6	99.5	99.6	99.6	99.7	99.8	99.7
960000108055031C	D1	5.4561	3.52	100.2	100.0	99.9	100.0	99.8	99.7	99.8	99.8	99.9	100.0	99.9
	D2	5.4952	3.45	99.4	99.2	99.3	99.3	99.1	99.0	99.1	99.1	99.2	99.3	99.3
	D3	5.4204	3.43	99.1	98.8	98.7	98.7	98.4	98.3	98.2	98.2	98.2	98.2	98.2
	D4	5.4778	3.50	100.4	100.3	100.4	100.4	100.3	100.3	100.3	100.4	100.5	100.6	100.6
	D5	5.4421	3.53	99.5	99.3	99.4	99.4	99.1	99.1	99.1	99.0	99.1	99.2	99.0
	D6	5.5347	3.64	99.5	99.3	99.2	99.2	99.0	99.0	99.1	99.1	99.1	99.3	99.2
	D7	5.4267	3.51	100.1	100.0	100.1	100.2	100.1	100.0	100.1	100.1	100.2	100.3	100.3
	D8	5.4409	3.53	100.7	100.6	100.7	100.8	100.6	100.6	100.7	100.7	100.9	101.0	100.9
	D9	5.4740	3.59	100.1	100.0	100.1	100.2	100.0	100.0	100.1	100.0	100.1	100.3	100.2
	D10	5.5093	3.60	100.1	100.0	100.0	100.0	99.8	99.8	99.9	99.9	99.9	100.1	100.0
	D11	5.5185	3.58	100.1	100.0	100.0	100.1	99.9	99.9	99.9	99.9	100.0	100.2	100.1
	D12	5.4147	3.52	99.9	99.7	99.7	99.8	99.5	99.5	99.5	99.5	99.6	99.7	99.6
n				24	24	24	24	24	24	24	24	24	24	24
mean				99.9	99.8	99.8	99.9	99.7	99.6	99.7	99.7	99.8	99.9	99.8
median				99.9	99.7	99.8	99.8	99.7	99.6	99.7	99.7	99.8	99.9	99.9
std. dev.				0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6
min				99.1	98.8	98.7	98.7	98.4	98.3	98.2	98.2	98.2	98.2	98.2
max				100.7	100.6	100.7	100.8	100.6	100.6	100.7	100.7	100.9	101.0	100.9

Test Condition 2				85 °C		1.050 A								
TABLE 3.2 - PHOTOSYNTHETIC PHOTON FLUX MAINTENANCE RESULTS													GW CSSRM2.EM	
Test Condition 2				85 °C		1.050 A								
Load board ID	Device number	Zero hour measurements		Photometric test drive current: 1.050 A Photometric test ambient temperature: 25 ± 2 °C Failures observed: none										
		PPF (μmol/s)	VF (V)	Photosynthetic Photon Flux Maintenance (%)										
				12000	13000	14000	15000	16000	17000	18000	19000	20000	21000	22000
5B00001073C7031C	D1	5.5239	3.36	99.4	99.4	99.4	99.4	99.3	99.4	99.4	99.2	99.0	98.9	98.9
	D2	5.4533	3.49	100.4	100.4	100.4	100.3	100.3	100.3	100.4	100.2	100.0	99.9	100.0
	D3	5.3829	3.46	100.5	100.5	100.5	100.5	100.4	100.5	100.6	100.4	100.2	100.2	100.2
	D4	5.4109	3.48	100.1	100.0	100.0	100.1	100.0	100.1	100.1	99.9	99.7	99.7	99.7
	D5	5.4620	3.68	99.7	99.7	99.7	99.7	99.6	99.7	99.7	99.5	99.3	99.4	99.3
	D6	5.4944	3.56	99.8	99.8	99.8	99.8	99.7	99.8	99.8	99.6	99.5	99.4	99.4
	D7	5.5539	3.49	99.3	99.2	99.2	99.2	99.1	99.2	99.2	99.0	98.9	98.8	98.8
	D8	5.4887	3.58	99.9	99.8	99.8	99.8	99.8	99.8	99.9	99.7	99.6	99.5	99.4
	D9	5.4865	3.60	99.9	99.9	99.9	99.8	99.8	99.8	99.9	99.7	99.5	99.5	99.5
	D10	5.4812	3.62	100.6	100.6	100.5	100.6	100.5	100.6	100.7	100.5	100.3	100.3	100.3
	D11	5.4354	3.61	99.4	99.4	99.3	99.3	99.2	99.3	99.3	99.1	98.9	98.8	98.7
	D12	5.5041	3.52	99.7	99.7	99.7	99.7	99.6	99.7	99.7	99.5	99.4	99.3	99.3
960000108055031C	D1	5.4561	3.52	99.9	99.9	99.9	100.0	99.8	99.9	99.9	99.7	99.5	99.4	99.4
	D2	5.4952	3.45	99.2	99.2	99.2	99.2	99.1	99.2	99.2	99.1	98.9	98.8	98.9
	D3	5.4204	3.43	98.1	98.0	97.9	97.9	97.8	97.8	97.8	97.6	97.3	97.2	97.2
	D4	5.4778	3.50	100.6	100.6	100.5	100.5	100.4	100.5	100.6	100.4	100.2	100.1	100.2
	D5	5.4421	3.53	99.0	99.0	98.9	98.9	98.8	98.8	98.8	98.6	98.4	98.3	98.3
	D6	5.5347	3.64	99.2	99.1	99.1	99.1	99.1	99.1	99.2	99.0	98.8	98.7	98.7
	D7	5.4267	3.51	100.2	100.3	100.2	100.2	100.1	100.1	100.2	100.0	99.8	99.7	99.8
	D8	5.4409	3.53	100.9	100.9	100.9	100.9	100.8	100.9	101.0	100.7	100.6	100.5	100.6
	D9	5.4740	3.59	100.2	100.2	100.2	100.2	100.0	100.1	100.2	100.0	99.8	99.8	99.8
	D10	5.5093	3.60	100.0	100.0	100.0	100.0	99.9	100.0	100.0	99.8	99.6	99.6	99.6
	D11	5.5185	3.58	100.0	100.0	100.0	100.0	99.9	100.0	100.0	99.9	99.7	99.6	99.6
	D12	5.4147	3.52	99.5	99.5	99.5	99.4	99.3	99.3	99.3	99.2	99.0	98.8	98.8
n mean median std. dev. min max				24	24	24	24	24	24	24	24	24	24	24
				99.8	99.8	99.8	99.8	99.7	99.7	99.8	99.6	99.4	99.3	99.3
				99.9	99.8	99.8	99.8	99.8	99.8	99.9	99.7	99.5	99.5	99.4
				0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7
				98.1	98.0	97.9	97.9	97.8	97.8	97.8	97.6	97.3	97.2	97.2
				100.9	100.9	100.9	100.9	100.8	100.9	101.0	100.7	100.6	100.5	100.6

Test Condition 2				85 °C		1.050 A										
TABLE 3.2 - PHOTOSYNTHETIC PHOTON FLUX MAINTENANCE RESULTS															GW CSSRM2.EM	
Test Condition 2				85 °C		1.050 A										
Load board ID	Device number	Zero hour measurements		Photometric test drive current: 1.050 A Photometric test ambient temperature: 25 ± 2 °C Failures observed: none												
		PPF (μmol/s)	VF (V)	Photosynthetic Photon Flux Maintenance (%)												
				23000	24000	25000										
5B00001073C7031C	D1	5.5239	3.36	98.8	98.7	98.6										
	D2	5.4533	3.49	99.8	99.7	99.7										
	D3	5.3829	3.46	100.0	99.9	99.9										
	D4	5.4109	3.48	99.6	99.5	99.5										
	D5	5.4620	3.68	99.1	99.0	99.0										
	D6	5.4944	3.56	99.2	99.1	99.1										
	D7	5.5539	3.49	98.6	98.5	98.5										
	D8	5.4887	3.58	99.4	99.2	99.3										
	D9	5.4865	3.60	99.3	99.2	99.2										
	D10	5.4812	3.62	100.1	100.1	100.1										
	D11	5.4354	3.61	98.6	98.5	98.4										
	D12	5.5041	3.52	99.1	99.0	99.0										
960000108055031C	D1	5.4561	3.52	99.3	99.1	99.1										
	D2	5.4952	3.45	98.6	98.5	98.5										
	D3	5.4204	3.43	97.0	96.9	96.8										
	D4	5.4778	3.50	100.0	99.9	99.8										
	D5	5.4421	3.53	98.1	97.9	97.9										
	D6	5.5347	3.64	98.6	98.4	98.4										
	D7	5.4267	3.51	99.6	99.5	99.4										
	D8	5.4409	3.53	100.4	100.3	100.3										
	D9	5.4740	3.59	99.6	99.5	99.5										
	D10	5.5093	3.60	99.4	99.3	99.3										
	D11	5.5185	3.58	99.5	99.3	99.3										
	D12	5.4147	3.52	98.7	98.5	98.5										
n				24	24	24										
mean				99.2	99.1	99.0										
median				99.3	99.2	99.2										
std. dev.				0.7	0.7	0.8										
min				97.0	96.9	96.8										
max				100.4	100.3	100.3										

Test Condition 2				85 °C		1.050 A								
TABLE 3.3 - CHROMATICITY COORDINATE U' RESULTS														GW CSSRM2.EM
Test Condition 2				85 °C		1.050 A								
Load board ID	Device number	Zero hour measurements		Photometric test drive current: 1.050 A Photometric test ambient temperature: 25 ± 2 °C Failures observed: none										
		u'		Chromaticity Coordinate u'										
				1000	2000	3000	4000	5000	6000	7000	8000	9000	10000	11000
5B00001073C7031C	D1		0.2343	0.2334	0.2333	0.2333	0.2332	0.2331	0.2331	0.2331	0.2331	0.2330	0.2330	0.2330
	D2		0.2351	0.2343	0.2343	0.2342	0.2342	0.2341	0.2341	0.2340	0.2341	0.2341	0.2340	0.2340
	D3		0.2370	0.2360	0.2359	0.2358	0.2358	0.2357	0.2356	0.2356	0.2356	0.2356	0.2355	0.2355
	D4		0.2364	0.2355	0.2354	0.2353	0.2353	0.2351	0.2351	0.2351	0.2351	0.2351	0.2351	0.2350
	D5		0.2340	0.2332	0.2331	0.2330	0.2330	0.2329	0.2328	0.2328	0.2328	0.2328	0.2328	0.2327
	D6		0.2356	0.2347	0.2346	0.2345	0.2345	0.2344	0.2343	0.2344	0.2344	0.2344	0.2343	0.2343
	D7		0.2330	0.2320	0.2319	0.2318	0.2318	0.2317	0.2317	0.2317	0.2316	0.2317	0.2316	0.2316
	D8		0.2348	0.2337	0.2336	0.2336	0.2335	0.2334	0.2333	0.2333	0.2333	0.2333	0.2332	0.2333
	D9		0.2334	0.2325	0.2323	0.2323	0.2322	0.2321	0.2320	0.2321	0.2320	0.2320	0.2320	0.2320
	D10		0.2344	0.2334	0.2332	0.2332	0.2331	0.2331	0.2330	0.2330	0.2330	0.2329	0.2329	0.2329
	D11		0.2336	0.2329	0.2329	0.2329	0.2329	0.2328	0.2328	0.2328	0.2328	0.2328	0.2328	0.2327
	D12		0.2335	0.2326	0.2325	0.2324	0.2324	0.2323	0.2322	0.2323	0.2323	0.2322	0.2321	0.2322
960000108055031C	D1		0.2327	0.2319	0.2319	0.2318	0.2318	0.2317	0.2317	0.2317	0.2316	0.2316	0.2316	0.2316
	D2		0.2342	0.2333	0.2332	0.2332	0.2331	0.2330	0.2330	0.2330	0.2330	0.2329	0.2329	0.2329
	D3		0.2367	0.2358	0.2357	0.2357	0.2357	0.2356	0.2356	0.2355	0.2355	0.2355	0.2354	0.2355
	D4		0.2346	0.2337	0.2336	0.2336	0.2335	0.2335	0.2334	0.2334	0.2333	0.2333	0.2333	0.2332
	D5		0.2337	0.2330	0.2329	0.2329	0.2329	0.2329	0.2328	0.2329	0.2328	0.2328	0.2328	0.2328
	D6		0.2324	0.2315	0.2316	0.2315	0.2315	0.2314	0.2313	0.2313	0.2313	0.2313	0.2313	0.2313
	D7		0.2337	0.2330	0.2331	0.2331	0.2330	0.2330	0.2330	0.2330	0.2330	0.2330	0.2330	0.2330
	D8		0.2344	0.2333	0.2332	0.2332	0.2331	0.2330	0.2329	0.2329	0.2329	0.2329	0.2328	0.2329
	D9		0.2339	0.2330	0.2330	0.2330	0.2329	0.2329	0.2328	0.2328	0.2328	0.2327	0.2327	0.2327
	D10		0.2332	0.2324	0.2323	0.2322	0.2322	0.2321	0.2321	0.2320	0.2320	0.2320	0.2320	0.2320
	D11		0.2343	0.2335	0.2334	0.2334	0.2333	0.2333	0.2332	0.2332	0.2332	0.2331	0.2331	0.2331
	D12		0.2357	0.2353	0.2353	0.2354	0.2353	0.2353	0.2353	0.2354	0.2353	0.2353	0.2353	0.2354
n				24	24	24	24	24	24	24	24	24	24	
mean				0.2335	0.2334	0.2334	0.2333	0.2333	0.2332	0.2332	0.2332	0.2332	0.2332	
median				0.2333	0.2332	0.2332	0.2331	0.2330	0.2330	0.2330	0.2330	0.2329	0.2329	
std. dev.				0.0012	0.0012	0.0012	0.0012	0.0012	0.0012	0.0012	0.0012	0.0012	0.0012	
min				0.2315	0.2316	0.2315	0.2315	0.2314	0.2313	0.2313	0.2313	0.2313	0.2313	
max				0.2360	0.2359	0.2358	0.2358	0.2357	0.2356	0.2356	0.2356	0.2356	0.2355	

Test Condition 2				85 °C		1.050 A								
TABLE 3.3 - CHROMATICITY COORDINATE U' RESULTS														GW CSSRM2.EM
Test Condition 2				85 °C		1.050 A								
Load board ID	Device number	Zero hour measurements		Photometric test drive current: 1.050 A Photometric test ambient temperature: 25 ± 2 °C Failures observed: none										
		u'		Chromaticity Coordinate u'										
				12000	13000	14000	15000	16000	17000	18000	19000	20000	21000	22000
5B00001073C7031C	D1		0.2343	0.2330	0.2330	0.2329	0.2329	0.2329	0.2329	0.2329	0.2329	0.2329	0.2329	0.2329
	D2		0.2351	0.2340	0.2340	0.2339	0.2339	0.2339	0.2340	0.2339	0.2339	0.2340	0.2339	0.2339
	D3		0.2370	0.2355	0.2355	0.2355	0.2355	0.2355	0.2355	0.2354	0.2355	0.2355	0.2355	0.2355
	D4		0.2364	0.2350	0.2350	0.2349	0.2349	0.2349	0.2350	0.2349	0.2349	0.2350	0.2349	0.2349
	D5		0.2340	0.2328	0.2327	0.2327	0.2327	0.2327	0.2327	0.2327	0.2327	0.2327	0.2326	0.2325
	D6		0.2356	0.2343	0.2343	0.2342	0.2342	0.2342	0.2342	0.2342	0.2342	0.2343	0.2343	0.2342
	D7		0.2330	0.2316	0.2316	0.2315	0.2315	0.2315	0.2315	0.2314	0.2315	0.2316	0.2315	0.2315
	D8		0.2348	0.2333	0.2332	0.2332	0.2332	0.2332	0.2332	0.2331	0.2332	0.2332	0.2331	0.2331
	D9		0.2334	0.2320	0.2319	0.2319	0.2319	0.2318	0.2319	0.2319	0.2318	0.2318	0.2318	0.2318
	D10		0.2344	0.2329	0.2329	0.2329	0.2328	0.2328	0.2328	0.2328	0.2328	0.2328	0.2328	0.2327
	D11		0.2336	0.2328	0.2328	0.2327	0.2327	0.2327	0.2327	0.2327	0.2327	0.2327	0.2327	0.2328
	D12		0.2335	0.2321	0.2321	0.2321	0.2321	0.2320	0.2321	0.2319	0.2320	0.2321	0.2321	0.2320
960000108055031C	D1		0.2327	0.2316	0.2316	0.2315	0.2315	0.2315	0.2316	0.2315	0.2315	0.2316	0.2316	0.2316
	D2		0.2342	0.2329	0.2329	0.2329	0.2328	0.2329	0.2329	0.2328	0.2329	0.2329	0.2328	0.2328
	D3		0.2367	0.2354	0.2355	0.2354	0.2354	0.2354	0.2354	0.2354	0.2354	0.2354	0.2354	0.2354
	D4		0.2346	0.2333	0.2332	0.2332	0.2332	0.2332	0.2332	0.2331	0.2331	0.2332	0.2332	0.2332
	D5		0.2337	0.2328	0.2327	0.2327	0.2327	0.2328	0.2327	0.2327	0.2327	0.2328	0.2328	0.2327
	D6		0.2324	0.2313	0.2312	0.2312	0.2312	0.2312	0.2313	0.2312	0.2312	0.2312	0.2312	0.2312
	D7		0.2337	0.2330	0.2330	0.2330	0.2330	0.2330	0.2330	0.2329	0.2330	0.2331	0.2331	0.2331
	D8		0.2344	0.2328	0.2328	0.2328	0.2328	0.2328	0.2328	0.2327	0.2328	0.2328	0.2328	0.2327
	D9		0.2339	0.2327	0.2327	0.2327	0.2326	0.2327	0.2327	0.2326	0.2327	0.2327	0.2327	0.2327
	D10		0.2332	0.2320	0.2319	0.2319	0.2319	0.2320	0.2319	0.2319	0.2319	0.2319	0.2319	0.2319
	D11		0.2343	0.2331	0.2331	0.2331	0.2331	0.2331	0.2331	0.2330	0.2330	0.2331	0.2331	0.2331
	D12		0.2357	0.2353	0.2354	0.2353	0.2353	0.2353	0.2353	0.2353	0.2354	0.2354	0.2354	0.2354
n				24	24	24	24	24	24	24	24	24	24	
mean				0.2331	0.2331	0.2331	0.2331	0.2331	0.2331	0.2330	0.2331	0.2331	0.2331	0.2331
median				0.2329	0.2329	0.2329	0.2328	0.2328	0.2329	0.2328	0.2328	0.2328	0.2328	0.2328
std. dev.				0.0012	0.0012	0.0012	0.0012	0.0012	0.0012	0.0012	0.0012	0.0012	0.0012	0.0012
min				0.2313	0.2312	0.2312	0.2312	0.2312	0.2313	0.2312	0.2312	0.2312	0.2312	0.2312
max				0.2355	0.2355	0.2355	0.2355	0.2355	0.2355	0.2354	0.2355	0.2355	0.2355	0.2355

Test Condition 2				85 °C	1.050 A									
TABLE 3.3 - CHROMATICITY COORDINATE U' RESULTS														GW CSSRM2.EM
Test Condition 2				85 °C	1.050 A									
Load board ID	Device number	Zero hour measurements		Photometric test drive current: 1.050 A Photometric test ambient temperature: 25 ± 2 °C Failures observed: none										
		u'		Chromaticity Coordinate u'										
				23000	24000	25000								
5B00001073C7031C	D1		0.2343	0.2329	0.2328	0.2329								
	D2		0.2351	0.2339	0.2339	0.2339								
	D3		0.2370	0.2355	0.2355	0.2355								
	D4		0.2364	0.2349	0.2349	0.2349								
	D5		0.2340	0.2325	0.2326	0.2326								
	D6		0.2356	0.2342	0.2342	0.2342								
	D7		0.2330	0.2315	0.2315	0.2315								
	D8		0.2348	0.2331	0.2331	0.2331								
	D9		0.2334	0.2318	0.2318	0.2318								
	D10		0.2344	0.2327	0.2328	0.2327								
	D11		0.2336	0.2327	0.2327	0.2327								
	D12		0.2335	0.2320	0.2320	0.2320								
960000108055031C	D1		0.2327	0.2315	0.2315	0.2315								
	D2		0.2342	0.2328	0.2328	0.2329								
	D3		0.2367	0.2353	0.2354	0.2354								
	D4		0.2346	0.2331	0.2331	0.2332								
	D5		0.2337	0.2327	0.2327	0.2327								
	D6		0.2324	0.2312	0.2312	0.2312								
	D7		0.2337	0.2330	0.2330	0.2330								
	D8		0.2344	0.2327	0.2327	0.2327								
	D9		0.2339	0.2326	0.2326	0.2326								
	D10		0.2332	0.2319	0.2319	0.2319								
	D11		0.2343	0.2330	0.2331	0.2331								
	D12		0.2357	0.2354	0.2354	0.2354								
n				24	24	24								
mean				0.2330	0.2330	0.2331								
median				0.2328	0.2328	0.2328								
std. dev.				0.0012	0.0012	0.0012								
min				0.2312	0.2312	0.2312								
max				0.2355	0.2355	0.2355								

Test Condition 2				85 °C		1.050 A								
TABLE 3.4 - CHROMATICITY COORDINATE V' RESULTS													GW CSSRM2.EM	
Test Condition 2				85 °C		1.050 A								
Load board ID	Device number	Zero hour measurements		Photometric test drive current: 1.050 A Photometric test ambient temperature: 25 ± 2 °C Failures observed: none										
		v'		Chromaticity Coordinate v'										
				1000	2000	3000	4000	5000	6000	7000	8000	9000	10000	11000
5B00001073C7031C	D1		0.5188	0.5188	0.5189	0.5189	0.5190	0.5191	0.5191	0.5191	0.5191	0.5192	0.5191	0.5192
	D2		0.5196	0.5196	0.5198	0.5198	0.5199	0.5199	0.5199	0.5199	0.5199	0.5200	0.5200	0.5200
	D3		0.5202	0.5199	0.5201	0.5201	0.5202	0.5202	0.5202	0.5202	0.5202	0.5202	0.5202	0.5202
	D4		0.5188	0.5186	0.5188	0.5189	0.5190	0.5190	0.5190	0.5190	0.5191	0.5191	0.5190	0.5191
	D5		0.5206	0.5208	0.5210	0.5211	0.5211	0.5212	0.5212	0.5212	0.5212	0.5213	0.5212	0.5212
	D6		0.5206	0.5207	0.5208	0.5208	0.5209	0.5210	0.5210	0.5210	0.5210	0.5210	0.5210	0.5210
	D7		0.5192	0.5190	0.5191	0.5190	0.5191	0.5191	0.5191	0.5191	0.5191	0.5192	0.5191	0.5191
	D8		0.5195	0.5192	0.5193	0.5194	0.5194	0.5194	0.5194	0.5194	0.5194	0.5194	0.5194	0.5194
	D9		0.5200	0.5199	0.5200	0.5200	0.5201	0.5200	0.5201	0.5201	0.5201	0.5201	0.5200	0.5201
	D10		0.5189	0.5188	0.5190	0.5190	0.5190	0.5190	0.5191	0.5191	0.5191	0.5191	0.5190	0.5191
	D11		0.5193	0.5195	0.5198	0.5199	0.5200	0.5201	0.5201	0.5202	0.5202	0.5203	0.5202	0.5203
	D12		0.5191	0.5190	0.5191	0.5191	0.5192	0.5192	0.5193	0.5193	0.5192	0.5193	0.5192	0.5193
960000108055031C	D1		0.5192	0.5193	0.5194	0.5195	0.5197	0.5197	0.5197	0.5197	0.5197	0.5198	0.5197	0.5197
	D2		0.5190	0.5189	0.5190	0.5190	0.5190	0.5191	0.5190	0.5190	0.5191	0.5191	0.5190	0.5190
	D3		0.5201	0.5198	0.5199	0.5200	0.5200	0.5200	0.5200	0.5200	0.5201	0.5201	0.5200	0.5200
	D4		0.5195	0.5194	0.5194	0.5195	0.5195	0.5196	0.5195	0.5196	0.5196	0.5197	0.5195	0.5195
	D5		0.5206	0.5207	0.5209	0.5210	0.5211	0.5212	0.5212	0.5213	0.5213	0.5214	0.5213	0.5213
	D6		0.5193	0.5193	0.5193	0.5194	0.5194	0.5195	0.5194	0.5195	0.5195	0.5195	0.5195	0.5195
	D7		0.5191	0.5194	0.5198	0.5199	0.5201	0.5202	0.5202	0.5202	0.5203	0.5204	0.5204	0.5204
	D8		0.5199	0.5198	0.5198	0.5199	0.5199	0.5200	0.5200	0.5200	0.5200	0.5201	0.5200	0.5200
	D9		0.5208	0.5209	0.5210	0.5211	0.5211	0.5212	0.5212	0.5212	0.5212	0.5213	0.5212	0.5212
	D10		0.5193	0.5195	0.5196	0.5198	0.5198	0.5199	0.5199	0.5199	0.5200	0.5200	0.5200	0.5200
	D11		0.5190	0.5190	0.5191	0.5192	0.5192	0.5193	0.5193	0.5193	0.5193	0.5194	0.5193	0.5193
	D12		0.5205	0.5209	0.5213	0.5215	0.5217	0.5218	0.5218	0.5219	0.5220	0.5221	0.5220	0.5220
n				24	24	24	24	24	24	24	24	24	24	
mean				0.5196	0.5198	0.5198	0.5199	0.5199	0.5200	0.5200	0.5200	0.5200	0.5200	
median				0.5194	0.5197	0.5198	0.5198	0.5199	0.5199	0.5199	0.5200	0.5200	0.5200	
std. dev.				0.0007	0.0007	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	
min				0.5186	0.5188	0.5189	0.5190	0.5190	0.5190	0.5190	0.5191	0.5191	0.5190	
max				0.5209	0.5213	0.5215	0.5217	0.5218	0.5218	0.5219	0.5220	0.5221	0.5220	

Test Condition 2				85 °C		1.050 A									
TABLE 3.4 - CHROMATICITY COORDINATE V' RESULTS														GW CSSRM2.EM	
Test Condition 2				85 °C		1.050 A									
Load board ID	Device number	Zero hour measurements		Photometric test drive current: 1.050 A Photometric test ambient temperature: 25 ± 2 °C Failures observed: none											
		v'		Chromaticity Coordinate v'											
				12000	13000	14000	15000	16000	17000	18000	19000	20000	21000	22000	
5B00001073C7031C	D1		0.5188	0.5192	0.5192	0.5192	0.5192	0.5192	0.5193	0.5192	0.5193	0.5193	0.5193	0.5193	0.5193
	D2		0.5196	0.5200	0.5200	0.5200	0.5200	0.5200	0.5201	0.5201	0.5201	0.5201	0.5201	0.5201	0.5201
	D3		0.5202	0.5202	0.5202	0.5203	0.5202	0.5203	0.5203	0.5203	0.5203	0.5203	0.5203	0.5203	0.5203
	D4		0.5188	0.5191	0.5191	0.5192	0.5191	0.5192	0.5192	0.5192	0.5192	0.5192	0.5192	0.5192	0.5192
	D5		0.5206	0.5213	0.5213	0.5213	0.5213	0.5214	0.5214	0.5214	0.5214	0.5214	0.5214	0.5214	0.5214
	D6		0.5206	0.5210	0.5210	0.5211	0.5210	0.5211	0.5211	0.5211	0.5211	0.5211	0.5211	0.5211	0.5212
	D7		0.5192	0.5191	0.5191	0.5191	0.5191	0.5192	0.5192	0.5191	0.5191	0.5191	0.5191	0.5191	0.5192
	D8		0.5195	0.5195	0.5194	0.5195	0.5195	0.5195	0.5195	0.5194	0.5195	0.5195	0.5195	0.5195	0.5195
	D9		0.5200	0.5201	0.5201	0.5202	0.5201	0.5202	0.5202	0.5202	0.5202	0.5202	0.5202	0.5201	0.5202
	D10		0.5189	0.5191	0.5191	0.5192	0.5191	0.5191	0.5191	0.5191	0.5191	0.5191	0.5191	0.5191	0.5191
	D11		0.5193	0.5203	0.5203	0.5204	0.5203	0.5204	0.5204	0.5204	0.5204	0.5205	0.5205	0.5205	0.5205
	D12		0.5191	0.5193	0.5193	0.5193	0.5193	0.5194	0.5193	0.5194	0.5194	0.5194	0.5194	0.5194	0.5194
960000108055031C	D1		0.5192	0.5198	0.5198	0.5198	0.5198	0.5198	0.5198	0.5199	0.5199	0.5199	0.5199	0.5199	0.5199
	D2		0.5190	0.5191	0.5191	0.5191	0.5191	0.5191	0.5191	0.5191	0.5192	0.5192	0.5192	0.5192	0.5192
	D3		0.5201	0.5201	0.5200	0.5201	0.5200	0.5201	0.5200	0.5201	0.5201	0.5201	0.5201	0.5201	0.5201
	D4		0.5195	0.5196	0.5196	0.5196	0.5196	0.5196	0.5196	0.5196	0.5197	0.5197	0.5197	0.5197	0.5197
	D5		0.5206	0.5214	0.5214	0.5215	0.5214	0.5215	0.5215	0.5215	0.5216	0.5216	0.5215	0.5216	0.5216
	D6		0.5193	0.5195	0.5195	0.5196	0.5195	0.5196	0.5196	0.5196	0.5196	0.5196	0.5196	0.5197	0.5197
	D7		0.5191	0.5205	0.5205	0.5205	0.5205	0.5205	0.5205	0.5206	0.5206	0.5206	0.5206	0.5206	0.5206
	D8		0.5199	0.5201	0.5201	0.5201	0.5201	0.5201	0.5201	0.5201	0.5201	0.5201	0.5201	0.5202	0.5202
	D9		0.5208	0.5213	0.5213	0.5213	0.5213	0.5213	0.5213	0.5213	0.5214	0.5214	0.5214	0.5215	0.5214
	D10		0.5193	0.5200	0.5200	0.5201	0.5201	0.5201	0.5201	0.5201	0.5201	0.5202	0.5202	0.5202	0.5202
	D11		0.5190	0.5194	0.5193	0.5194	0.5194	0.5194	0.5194	0.5194	0.5195	0.5195	0.5194	0.5195	0.5195
	D12		0.5205	0.5221	0.5221	0.5222	0.5222	0.5222	0.5222	0.5222	0.5223	0.5223	0.5223	0.5223	0.5223
n				24	24	24	24	24	24	24	24	24	24	24	
mean				0.5200	0.5200	0.5201	0.5200	0.5201	0.5201	0.5201	0.5201	0.5201	0.5201	0.5202	
median				0.5200	0.5200	0.5201	0.5200	0.5201	0.5201	0.5201	0.5201	0.5201	0.5201	0.5201	
std. dev.				0.0008	0.0009	0.0009	0.0009	0.0009	0.0009	0.0009	0.0009	0.0009	0.0009	0.0009	
min				0.5191	0.5191	0.5191	0.5191	0.5191	0.5191	0.5191	0.5191	0.5191	0.5191	0.5191	
max				0.5221	0.5221	0.5222	0.5222	0.5222	0.5222	0.5222	0.5223	0.5223	0.5223	0.5223	

Test Condition 2				85 °C	1.050 A									
TABLE 3.4 - CHROMATICITY COORDINATE V' RESULTS														GW CSSRM2.EM
Test Condition 2				85 °C	1.050 A									
Load board ID	Device number	Zero hour measurements		Photometric test drive current: 1.050 A Photometric test ambient temperature: 25 ± 2 °C Failures observed: none										
		v'		Chromaticity Coordinate v'										
				23000	24000	25000								
5B00001073C7031C	D1		0.5188	0.5195	0.5195	0.5195								
	D2		0.5196	0.5202	0.5202	0.5203								
	D3		0.5202	0.5204	0.5205	0.5205								
	D4		0.5188	0.5193	0.5193	0.5193								
	D5		0.5206	0.5216	0.5216	0.5217								
	D6		0.5206	0.5213	0.5213	0.5214								
	D7		0.5192	0.5193	0.5193	0.5194								
	D8		0.5195	0.5197	0.5197	0.5197								
	D9		0.5200	0.5204	0.5204	0.5204								
	D10		0.5189	0.5193	0.5192	0.5193								
	D11		0.5193	0.5207	0.5206	0.5207								
	D12		0.5191	0.5196	0.5196	0.5196								
960000108055031C	D1		0.5192	0.5201	0.5201	0.5201								
	D2		0.5190	0.5193	0.5193	0.5194								
	D3		0.5201	0.5202	0.5202	0.5203								
	D4		0.5195	0.5197	0.5198	0.5199								
	D5		0.5206	0.5217	0.5218	0.5218								
	D6		0.5193	0.5198	0.5199	0.5199								
	D7		0.5191	0.5207	0.5208	0.5208								
	D8		0.5199	0.5203	0.5203	0.5204								
	D9		0.5208	0.5215	0.5216	0.5216								
	D10		0.5193	0.5203	0.5204	0.5204								
	D11		0.5190	0.5196	0.5196	0.5197								
	D12		0.5205	0.5224	0.5224	0.5225								
n				24	24	24								
mean				0.5203	0.5203	0.5204								
median				0.5202	0.5202	0.5203								
std. dev.				0.0009	0.0009	0.0009								
min				0.5193	0.5192	0.5193								
max				0.5224	0.5224	0.5225								

Test Condition 2 85 °C 1.050 A															
TABLE 3.5 - CHROMATICITY SHIFT RESULTS															
Test Condition 2 85 °C 1.050 A															
Load board ID	Device number	Zero hour measurements			Photometric test drive current: 1.050 A Photometric test ambient temperature: 25 ± 2 °C Failures observed: none										
		u'	v'		Chromaticity shift ($\Delta u'v'$)										
					1000	2000	3000	4000	5000	6000	7000	8000	9000	10000	11000
5B00001073C7031C	D1	0.2343	0.5188		0.0009	0.0010	0.0010	0.0011	0.0012	0.0013	0.0012	0.0012	0.0013	0.0014	0.0013
	D2	0.2351	0.5196		0.0008	0.0009	0.0009	0.0010	0.0011	0.0011	0.0012	0.0011	0.0011	0.0012	0.0012
	D3	0.2370	0.5202		0.0011	0.0012	0.0013	0.0013	0.0014	0.0014	0.0014	0.0014	0.0015	0.0015	0.0015
	D4	0.2364	0.5188		0.0010	0.0010	0.0011	0.0011	0.0013	0.0013	0.0013	0.0013	0.0014	0.0014	0.0014
	D5	0.2340	0.5206		0.0009	0.0010	0.0011	0.0012	0.0012	0.0013	0.0013	0.0013	0.0014	0.0014	0.0014
	D6	0.2356	0.5206		0.0008	0.0010	0.0011	0.0011	0.0012	0.0013	0.0013	0.0012	0.0013	0.0013	0.0013
	D7	0.2330	0.5192		0.0011	0.0011	0.0012	0.0012	0.0013	0.0013	0.0013	0.0014	0.0014	0.0015	0.0014
	D8	0.2348	0.5195		0.0011	0.0012	0.0013	0.0013	0.0014	0.0015	0.0015	0.0015	0.0015	0.0016	0.0015
	D9	0.2334	0.5200		0.0009	0.0011	0.0011	0.0012	0.0013	0.0014	0.0013	0.0014	0.0014	0.0014	0.0014
	D10	0.2344	0.5189		0.0010	0.0011	0.0012	0.0012	0.0013	0.0014	0.0014	0.0014	0.0015	0.0015	0.0015
	D11	0.2336	0.5193		0.0007	0.0008	0.0009	0.0010	0.0011	0.0011	0.0012	0.0012	0.0012	0.0012	0.0013
	D12	0.2335	0.5191		0.0009	0.0010	0.0011	0.0012	0.0012	0.0013	0.0012	0.0013	0.0013	0.0014	0.0014
960000108055031C	D1	0.2327	0.5192		0.0008	0.0009	0.0010	0.0011	0.0011	0.0012	0.0012	0.0012	0.0013	0.0012	0.0013
	D2	0.2342	0.5190		0.0008	0.0009	0.0009	0.0010	0.0011	0.0012	0.0012	0.0012	0.0012	0.0012	0.0012
	D3	0.2367	0.5201		0.0009	0.0010	0.0010	0.0011	0.0011	0.0012	0.0012	0.0012	0.0012	0.0013	0.0013
	D4	0.2346	0.5195		0.0010	0.0010	0.0010	0.0011	0.0011	0.0012	0.0012	0.0013	0.0013	0.0013	0.0014
	D5	0.2337	0.5206		0.0007	0.0008	0.0009	0.0009	0.0010	0.0011	0.0011	0.0011	0.0012	0.0012	0.0012
	D6	0.2324	0.5193		0.0009	0.0009	0.0009	0.0009	0.0010	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011
	D7	0.2337	0.5191		0.0007	0.0009	0.0010	0.0012	0.0012	0.0013	0.0013	0.0014	0.0014	0.0014	0.0014
	D8	0.2344	0.5199		0.0011	0.0012	0.0012	0.0013	0.0014	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015
	D9	0.2339	0.5208		0.0009	0.0010	0.0010	0.0011	0.0011	0.0012	0.0012	0.0013	0.0013	0.0013	0.0013
	D10	0.2332	0.5193		0.0008	0.0009	0.0010	0.0011	0.0012	0.0012	0.0013	0.0013	0.0013	0.0013	0.0014
	D11	0.2343	0.5190		0.0008	0.0009	0.0009	0.0010	0.0010	0.0012	0.0011	0.0012	0.0012	0.0012	0.0012
	D12	0.2357	0.5205		0.0007	0.0010	0.0011	0.0013	0.0014	0.0014	0.0015	0.0016	0.0017	0.0016	0.0016
n					24	24	24	24	24	24	24	24	24	24	24
mean					0.0009	0.0010	0.0011	0.0011	0.0012	0.0013	0.0013	0.0013	0.0013	0.0013	0.0014
median					0.0009	0.0010	0.0010	0.0011	0.0012	0.0013	0.0013	0.0013	0.0013	0.0013	0.0014
std. dev.					0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
min					0.0007	0.0008	0.0009	0.0009	0.0010	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011
max					0.0011	0.0012	0.0013	0.0013	0.0014	0.0015	0.0015	0.0016	0.0017	0.0016	0.0016

Test Condition 2 85 °C 1.050 A															
TABLE 3.5 - CHROMATICITY SHIFT RESULTS															
Test Condition 2 85 °C 1.050 A															
Load board ID	Device number	Zero hour measurements			Photometric test drive current: 1.050 A Photometric test ambient temperature: 25 ± 2 °C Failures observed: none										
		u'	v'		Chromaticity shift ($\Delta u'v'$)										
					12000	13000	14000	15000	16000	17000	18000	19000	20000	21000	22000
5B00001073C7031C	D1	0.2343	0.5188		0.0014	0.0014	0.0015	0.0015	0.0015	0.0014	0.0015	0.0015	0.0015	0.0014	0.0015
	D2	0.2351	0.5196		0.0012	0.0012	0.0013	0.0012	0.0013	0.0013	0.0013	0.0013	0.0013	0.0013	0.0013
	D3	0.2370	0.5202		0.0015	0.0015	0.0016	0.0016	0.0016	0.0015	0.0016	0.0016	0.0016	0.0015	0.0016
	D4	0.2364	0.5188		0.0014	0.0014	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015
	D5	0.2340	0.5206		0.0014	0.0014	0.0015	0.0015	0.0015	0.0015	0.0016	0.0016	0.0015	0.0016	0.0017
	D6	0.2356	0.5206		0.0013	0.0013	0.0014	0.0014	0.0015	0.0014	0.0015	0.0015	0.0014	0.0014	0.0014
	D7	0.2330	0.5192		0.0014	0.0015	0.0015	0.0015	0.0015	0.0015	0.0016	0.0015	0.0015	0.0015	0.0015
	D8	0.2348	0.5195		0.0015	0.0016	0.0016	0.0016	0.0017	0.0017	0.0017	0.0017	0.0017	0.0017	0.0017
	D9	0.2334	0.5200		0.0014	0.0015	0.0015	0.0015	0.0016	0.0015	0.0016	0.0016	0.0016	0.0016	0.0016
	D10	0.2344	0.5189		0.0015	0.0015	0.0015	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0017
	D11	0.2336	0.5193		0.0013	0.0013	0.0014	0.0013	0.0014	0.0013	0.0014	0.0014	0.0014	0.0014	0.0014
	D12	0.2335	0.5191		0.0014	0.0014	0.0015	0.0014	0.0015	0.0015	0.0016	0.0015	0.0015	0.0015	0.0015
960000108055031C	D1	0.2327	0.5192		0.0013	0.0013	0.0014	0.0013	0.0014	0.0013	0.0015	0.0014	0.0013	0.0014	0.0014
	D2	0.2342	0.5190		0.0013	0.0013	0.0013	0.0013	0.0013	0.0013	0.0014	0.0013	0.0013	0.0013	0.0013
	D3	0.2367	0.5201		0.0013	0.0013	0.0013	0.0013	0.0013	0.0013	0.0014	0.0013	0.0013	0.0013	0.0014
	D4	0.2346	0.5195		0.0014	0.0014	0.0014	0.0014	0.0014	0.0014	0.0015	0.0015	0.0014	0.0015	0.0014
	D5	0.2337	0.5206		0.0012	0.0013	0.0013	0.0013	0.0013	0.0013	0.0014	0.0014	0.0013	0.0014	0.0014
	D6	0.2324	0.5193		0.0012	0.0012	0.0012	0.0012	0.0012	0.0012	0.0013	0.0012	0.0012	0.0012	0.0012
	D7	0.2337	0.5191		0.0015	0.0015	0.0016	0.0015	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016
	D8	0.2344	0.5199		0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0017	0.0017	0.0016	0.0017	0.0017
	D9	0.2339	0.5208		0.0013	0.0013	0.0014	0.0014	0.0014	0.0014	0.0015	0.0014	0.0014	0.0014	0.0014
	D10	0.2332	0.5193		0.0014	0.0014	0.0015	0.0015	0.0014	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015
	D11	0.2343	0.5190		0.0013	0.0012	0.0013	0.0013	0.0012	0.0013	0.0014	0.0013	0.0013	0.0013	0.0013
	D12	0.2357	0.5205		0.0017	0.0017	0.0018	0.0018	0.0018	0.0018	0.0019	0.0019	0.0019	0.0019	0.0019
n					24	24	24	24	24	24	24	24	24	24	24
mean					0.0014	0.0014	0.0015	0.0014	0.0015	0.0014	0.0015	0.0015	0.0015	0.0015	0.0015
median					0.0014	0.0014	0.0015	0.0014	0.0015	0.0014	0.0015	0.0015	0.0015	0.0015	0.0015
std. dev.					0.0001	0.0001	0.0001	0.0001	0.0002	0.0001	0.0001	0.0001	0.0002	0.0001	0.0002
min					0.0012	0.0012	0.0012	0.0012	0.0012	0.0012	0.0013	0.0012	0.0012	0.0012	0.0012
max					0.0017	0.0017	0.0018	0.0018	0.0018	0.0018	0.0019	0.0019	0.0019	0.0019	0.0019

Test Condition 2 85 °C 1.050 A														
TABLE 3.5 - CHROMATICITY SHIFT RESULTS														
Test Condition 2 85 °C 1.050 A														
Load board ID	Device number	Zero hour measurements			Photometric test drive current: 1.050 A Photometric test ambient temperature: 25 ± 2 °C Failures observed: none									
		u'	v'		Chromaticity shift ($\Delta u'v'$)									
					23000	24000	25000							
5B00001073C7031C	D1	0.2343	0.5188		0.0016	0.0016	0.0016							
	D2	0.2351	0.5196		0.0014	0.0014	0.0014							
	D3	0.2370	0.5202		0.0016	0.0016	0.0016							
	D4	0.2364	0.5188		0.0016	0.0016	0.0016							
	D5	0.2340	0.5206		0.0018	0.0017	0.0018							
	D6	0.2356	0.5206		0.0015	0.0015	0.0016							
	D7	0.2330	0.5192		0.0015	0.0015	0.0016							
	D8	0.2348	0.5195		0.0017	0.0017	0.0018							
	D9	0.2334	0.5200		0.0017	0.0017	0.0017							
	D10	0.2344	0.5189		0.0017	0.0017	0.0017							
	D11	0.2336	0.5193		0.0016	0.0015	0.0016							
	D12	0.2335	0.5191		0.0016	0.0016	0.0016							
960000108055031C	D1	0.2327	0.5192		0.0015	0.0015	0.0015							
	D2	0.2342	0.5190		0.0013	0.0014	0.0013							
	D3	0.2367	0.5201		0.0014	0.0013	0.0013							
	D4	0.2346	0.5195		0.0015	0.0015	0.0015							
	D5	0.2337	0.5206		0.0015	0.0015	0.0016							
	D6	0.2324	0.5193		0.0013	0.0013	0.0014							
	D7	0.2337	0.5191		0.0017	0.0017	0.0018							
	D8	0.2344	0.5199		0.0017	0.0017	0.0017							
	D9	0.2339	0.5208		0.0015	0.0016	0.0016							
	D10	0.2332	0.5193		0.0016	0.0016	0.0016							
	D11	0.2343	0.5190		0.0014	0.0014	0.0014							
	D12	0.2357	0.5205		0.0020	0.0020	0.0021							
n					24	24	24							
mean					0.0016	0.0016	0.0016							
median					0.0016	0.0016	0.0016							
std. dev.					0.0002	0.0002	0.0002							
min					0.0013	0.0013	0.0013							
max					0.0020	0.0020	0.0021							

Test Condition 2 85 °C 1.050 A														
TABLE 3.6 - FORWARD VOLTAGE MAINTENANCE RESULTS													GW CSSRM2.EM	
Test Condition 2 85 °C 1.050 A														
Load board ID	Device number	Zero hour measurements		Photometric test drive current: 1.050 A										
				Photometric test ambient temperature: 25 ± 2 °C										
		Vf (V)		Failures observed: none										
				Forward Voltage Maintainence (%)										
		1000	2000	3000	4000	5000	6000	7000	8000	9000	10000	11000		
5B00001073C7031C	D1		3.36	98.64	98.75	98.61	98.77	98.88	98.74	98.76	98.59	99.81	99.57	101.01
	D2		3.49	98.03	97.38	97.26	97.31	98.56	97.81	97.61	97.25	98.63	98.00	99.46
	D3		3.46	98.94	98.40	98.40	98.81	100.02	99.24	98.76	98.96	99.01	99.17	100.58
	D4		3.48	98.32	98.07	98.76	98.62	98.72	98.95	98.29	98.52	100.65	99.01	99.16
	D5		3.68	96.18	96.14	96.48	96.39	96.21	96.65	97.17	96.26	98.21	96.36	96.49
	D6		3.56	97.29	97.38	97.38	97.60	97.35	97.68	98.87	97.88	98.13	97.63	98.20
	D7		3.49	97.90	97.64	97.76	97.60	97.64	97.97	98.27	97.94	99.62	98.60	98.36
	D8		3.58	97.33	96.94	96.91	97.27	96.92	98.42	97.11	97.73	98.71	98.02	97.44
	D9		3.60	97.78	97.59	97.56	97.97	97.78	99.98	97.75	98.46	98.14	98.12	97.96
	D10		3.62	96.35	96.32	96.15	96.31	97.91	97.98	96.53	96.38	96.44	96.66	96.56
	D11		3.61	96.91	96.44	96.14	96.13	97.64	96.56	96.41	96.38	96.48	96.80	96.58
	D12		3.52	98.76	98.63	98.73	98.76	98.97	99.67	98.95	99.90	99.75	98.98	99.45
960000108055031C	D1		3.52	96.61	96.10	95.58	95.46	95.49	95.23	95.16	95.40	95.10	95.73	95.48
	D2		3.45	98.77	98.56	98.06	97.84	97.91	97.95	98.48	98.18	97.87	98.21	98.52
	D3		3.43	99.11	98.92	98.58	98.47	98.44	98.57	99.08	98.86	98.40	98.49	99.10
	D4		3.50	98.11	97.64	97.64	97.58	97.33	97.33	97.32	97.39	97.26	98.56	97.37
	D5		3.53	98.30	98.08	98.73	97.89	97.55	97.36	97.94	97.28	97.63	99.30	97.47
	D6		3.64	97.04	97.14	97.59	97.24	96.89	96.94	97.49	96.56	97.02	97.79	97.72
	D7		3.51	98.01	97.68	97.61	97.87	97.66	97.77	97.77	97.35	97.67	98.03	98.56
	D8		3.53	97.81	97.69	97.73	97.58	97.39	97.38	97.39	97.31	97.52	97.25	97.64
	D9		3.59	97.92	97.75	97.64	97.60	97.49	97.77	97.75	97.84	97.47	97.36	97.62
	D10		3.60	97.77	97.34	97.45	98.34	97.50	97.54	97.42	97.69	97.26	97.48	98.44
	D11		3.58	97.82	97.37	97.59	98.70	97.69	97.46	97.08	97.63	97.30	98.00	98.97
	D12		3.52	100.44	98.52	98.55	98.75	98.54	98.67	98.25	98.68	98.29	98.89	99.68
n mean median std. dev. min max				24	24	24	24	24	24	24	24	24	24	24
				97.9	97.6	97.6	97.7	97.8	97.9	97.7	97.7	98.0	98.0	98.2
				97.9	97.6	97.6	97.7	97.7	97.8	97.8	97.7	98.0	98.0	98.3
				1.0	0.8	0.9	0.9	0.9	1.0	0.9	1.0	1.2	1.0	1.3
				96.2	96.1	95.6	95.5	95.5	95.2	95.2	95.4	95.1	95.7	95.5
				100.4	98.9	98.8	98.8	100.0	100.0	99.1	99.9	100.7	99.6	101.0

Test Condition 2				85 °C		1.050 A								
TABLE 3.6 - FORWARD VOLTAGE MAINTENANCE RESULTS														GW CSSRM2.EM
Test Condition 2				85 °C		1.050 A								
Load board ID	Device number	Zero hour measurements		Photometric test drive current: 1.050 A Photometric test ambient temperature: 25 ± 2 °C Failures observed: none										
		Vf (V)		Forward Voltage Maintainence (%)										
				12000	13000	14000	15000	16000	17000	18000	19000	20000	21000	22000
5B00001073C7031C	D1		3.36	100.10	98.77	99.25	105.32	100.01	98.70	106.71	102.29	99.69	103.92	101.49
	D2		3.49	98.67	97.61	97.97	98.28	98.36	96.88	98.38	99.60	99.63	98.86	99.10
	D3		3.46	99.65	99.19	98.92	98.69	98.63	98.53	99.91	101.69	100.67	99.95	100.44
	D4		3.48	98.65	98.33	98.23	98.82	98.26	98.18	98.87	99.49	98.33	99.47	98.47
	D5		3.68	96.03	95.82	95.76	97.28	95.81	95.62	96.57	96.78	95.93	97.42	95.93
	D6		3.56	98.87	97.55	98.33	102.01	97.74	96.94	97.80	100.92	97.64	97.73	97.60
	D7		3.49	99.48	98.02	99.05	101.82	98.03	97.42	97.71	101.54	98.17	97.76	98.28
	D8		3.58	97.50	97.44	96.95	97.79	97.57	96.84	97.01	97.93	97.26	97.07	97.09
	D9		3.60	97.71	97.94	97.50	98.38	98.15	97.38	97.44	97.41	97.59	97.56	97.28
	D10		3.62	98.28	99.37	95.99	96.75	95.96	96.01	96.02	96.46	96.25	96.42	96.29
	D11		3.61	99.23	99.50	95.70	100.09	96.06	95.79	96.30	96.89	96.38	96.63	97.82
	D12		3.52	101.33	100.16	99.16	103.90	98.97	98.47	99.30	99.41	100.22	100.78	101.14
960000108055031C	D1		3.52	95.19	95.59	95.96	95.87	95.22	95.37	95.58	95.94	95.71	96.00	95.68
	D2		3.45	97.99	98.24	98.63	98.62	97.81	97.93	98.41	97.91	99.44	98.62	98.37
	D3		3.43	98.55	98.70	98.88	98.55	98.35	99.03	98.94	98.41	100.04	98.67	99.26
	D4		3.50	97.19	97.55	97.54	97.37	97.35	98.11	97.65	98.08	99.14	97.46	97.89
	D5		3.53	97.17	98.14	97.29	97.50	97.84	97.73	97.43	97.96	100.48	97.36	97.17
	D6		3.64	96.51	97.58	98.64	97.09	97.24	96.81	96.79	96.80	99.04	97.85	96.57
	D7		3.51	97.22	98.05	99.20	97.66	97.37	97.20	97.30	97.41	98.10	98.84	97.57
	D8		3.53	97.28	97.90	97.21	97.77	97.31	97.25	97.32	97.59	98.99	97.71	97.55
	D9		3.59	97.42	97.90	97.14	97.70	97.90	97.44	98.04	97.90	99.07	97.44	97.03
	D10		3.60	97.30	97.78	97.10	97.24	97.76	97.80	97.80	97.60	97.79	97.30	97.55
	D11		3.58	97.45	98.49	97.35	97.41	97.08	97.62	97.09	97.37	97.55	97.36	97.52
	D12		3.52	98.35	99.56	98.08	98.28	97.87	98.38	97.95	98.27	98.24	100.64	97.70
n				24	24	24	24	24	24	24	24	24	24	24
mean				98.0	98.1	97.7	98.8	97.6	97.4	98.0	98.4	98.4	98.3	97.9
median				97.8	98.0	97.8	98.0	97.8	97.4	97.7	97.9	98.3	97.7	97.6
std. dev.				1.4	1.1	1.1	2.3	1.1	1.0	2.1	1.7	1.4	1.7	1.5
min				95.2	95.6	95.7	95.9	95.2	95.4	95.6	95.9	95.7	96.0	95.7
max				101.3	100.2	99.3	105.3	100.0	99.0	106.7	102.3	100.7	103.9	101.5

Test Condition 2				85 °C	1.050 A										
TABLE 3.6 - FORWARD VOLTAGE MAINTENANCE RESULTS															GW CSSRM2.EM
Test Condition 2				85 °C	1.050 A										
Load board ID	Device number	Zero hour measurements		Photometric test drive current: 1.050 A Photometric test ambient temperature: 25 ± 2 °C Failures observed: none											
		Vf (V)	Forward Voltage Maintainence (%)												
			23000	24000	25000										
5B00001073C7031C	D1		3.36	106.04	115.64	104.01									
	D2		3.49	100.36	101.86	103.37									
	D3		3.46	99.53	101.67	102.27									
	D4		3.48	101.00	98.97	98.75									
	D5		3.68	98.91	96.74	98.84									
	D6		3.56	99.82	98.20	102.04									
	D7		3.49	99.86	98.44	99.76									
	D8		3.58	97.23	97.10	96.93									
	D9		3.60	97.99	97.36	97.48									
	D10		3.62	97.85	96.16	96.42									
	D11		3.61	97.48	96.15	96.83									
	D12		3.52	100.97	99.93	101.30									
960000108055031C	D1		3.52	96.13	96.54	95.76									
	D2		3.45	99.35	98.18	98.17									
	D3		3.43	99.86	98.64	98.80									
	D4		3.50	98.29	98.57	99.16									
	D5		3.53	97.96	98.39	99.54									
	D6		3.64	98.89	99.19	101.40									
	D7		3.51	99.20	100.00	101.50									
	D8		3.53	98.14	98.02	97.74									
	D9		3.59	98.08	97.76	98.13									
	D10		3.60	97.12	97.38	97.82									
	D11		3.58	97.40	99.45	97.27									
	D12		3.52	99.05	102.82	98.44									
n				24	24	24									
mean				99.0	99.3	99.2									
median				98.9	98.4	98.8									
std. dev.				1.9	3.9	2.3									
min				96.1	96.2	95.8									
max				106.0	115.6	104.0									

Test Condition 3				105 °C		1.050 A									
TABLE 4.0 - LUMEN MAINTENANCE RESULTS													GW CSSRM2.EM		
Test Condition 3				105 °C		1.050 A									
Load board ID	Device number	Zero hour measurements		Photometric test drive current: 1.050 A Photometric test ambient temperature: 25 ± 2 °C Failures observed: none											
		Flux (lm)	Vf (V)	Lumen Maintenance (%)											
				1000	2000	3000	4000	5000	6000	7000	8000	9000	10000	11000	
1300001078A6031C	D1	390.84	3.35	98.9	98.6	98.4	98.3	98.0	97.8	97.7	97.7	97.6	97.5	97.4	
	D2	391.01	3.41	98.8	98.2	98.0	97.8	97.4	97.1	97.0	96.8	96.7	96.6	96.5	
	D3	393.08	3.47	100.2	100.0	99.9	99.9	99.7	99.6	99.5	99.5	99.4	99.5	99.4	
	D4	394.04	3.53	100.4	100.5	100.5	100.5	100.4	100.4	100.4	100.5	100.5	100.6	100.6	
	D5	390.62	3.53	100.1	100.0	100.0	100.1	99.9	99.9	99.9	99.9	99.9	100.0	99.9	
	D6	393.15	3.54	99.2	99.0	99.0	99.0	98.8	98.8	98.8	98.8	98.8	98.9	98.9	
	D7	385.92	3.46	98.8	98.3	98.0	97.8	97.5	97.2	97.0	96.9	96.8	96.7	96.6	
	D8	395.82	3.60	99.5	99.4	99.4	99.5	99.3	99.3	99.3	99.4	99.4	99.5	99.5	
	D9	393.70	3.64	100.6	100.6	100.7	100.8	100.6	100.6	100.6	100.6	100.6	100.7	100.7	
	D10	391.64	3.56	100.2	100.1	100.2	100.3	100.1	100.1	100.1	100.1	100.2	100.3	100.3	
	D11	388.70	3.62	100.5	100.5	100.5	100.6	100.4	100.4	100.4	100.4	100.4	100.5	100.5	
	D12	396.11	3.58	100.2	100.2	100.2	100.3	100.1	100.1	100.2	100.2	100.2	100.3	100.3	
DE00001081CE031C	D1	398.03	3.37	100.3	100.3	100.3	100.4	100.2	100.2	100.1	100.1	100.2	100.2	100.2	
	D2	392.93	3.46	100.6	100.6	100.6	100.7	100.5	100.5	100.6	100.6	100.6	100.7	100.7	
	D3	384.56	3.68	101.5	101.6	101.6	101.6	101.4	101.4	101.4	101.4	101.3	101.4	101.3	
	D4	384.42	3.62	101.2	101.2	101.3	101.3	101.2	101.1	101.2	101.2	101.2	101.3	101.3	
	D5	388.80	3.53	98.4	98.0	97.8	97.7	97.4	97.2	97.2	97.0	96.9	97.0	96.8	
	D6	390.23	3.65	100.0	100.0	100.0	100.1	99.9	99.9	100.0	100.0	100.1	100.2	100.2	
	D7	392.65	3.50	99.8	99.6	99.6	99.6	99.4	99.4	99.4	99.3	99.4	99.5	99.4	
	D8	393.09	3.56	100.4	100.4	100.5	100.6	100.4	100.4	100.5	100.4	100.5	100.6	100.6	
	D9	396.21	3.64	99.9	99.9	100.0	100.1	99.9	99.9	99.9	99.9	99.9	100.0	99.9	
	D10	392.07	3.55	99.5	99.1	98.9	98.8	98.5	98.3	98.3	98.1	98.1	98.1	98.0	
	D11	401.96	3.58	99.7	99.5	99.5	99.5	99.2	99.2	99.2	99.1	99.2	99.3	99.2	
	D12	389.83	3.56	99.8	99.7	99.7	99.7	99.6	99.5	99.6	99.5	99.5	99.7	99.6	
n mean median std. dev. min max				24	24	24	24	24	24	24	24	24	24	24	
				99.9	99.8	99.8	99.8	99.6	99.5	99.5	99.5	99.5	99.5	99.6	99.5
				100.1	100.0	100.0	100.1	99.9	99.9	99.9	99.9	99.9	99.9	100.0	99.9
				0.8	0.9	1.0	1.1	1.1	1.2	1.3	1.3	1.4	1.4	1.4	1.4
				98.4	98.0	97.8	97.7	97.4	97.1	97.0	96.8	96.7	96.6	96.5	96.5
				101.5	101.6	101.6	101.6	101.4	101.4	101.4	101.4	101.4	101.3	101.4	101.3

Test Condition 3				105 °C		1.050 A										
TABLE 4.0 - LUMEN MAINTENANCE RESULTS															GW CSSRM2.EM	
Test Condition 3				105 °C		1.050 A										
Load board ID	Device number	Zero hour measurements		Photometric test drive current: 1.050 A Photometric test ambient temperature: 25 ± 2 °C Failures observed: none												
		Flux (lm)	Vf (V)	Lumen Maintenance (%)												
				12000	13000	14000	15000	16000	17000	18000	19000	20000	21000	22000		
1300001078A6031C	D1	390.84	3.35	97.4	97.2	97.2	97.0	96.9	96.9	96.8	96.5	96.3	96.2	96.1		
	D2	391.01	3.41	96.4	96.2	96.1	95.9	95.7	95.6	95.6	95.3	95.0	94.9	94.7		
	D3	393.08	3.47	99.4	99.3	99.2	99.2	99.1	99.0	99.1	98.8	98.6	98.5	98.4		
	D4	394.04	3.53	100.6	100.6	100.5	100.5	100.4	100.5	100.5	100.3	100.1	100.0	100.0		
	D5	390.62	3.53	99.9	99.9	99.9	99.8	99.7	99.7	99.7	99.5	99.3	99.3	99.3		
	D6	393.15	3.54	98.9	98.9	98.8	98.7	98.7	98.7	98.8	98.5	98.4	97.6	96.9		
	D7	385.92	3.46	96.5	96.3	96.2	96.0	95.8	95.7	95.7	95.4	95.1	95.0	94.9		
	D8	395.82	3.60	99.5	99.5	99.5	99.4	99.4	99.4	99.5	99.3	99.1	99.0	99.0		
	D9	393.70	3.64	100.7	100.7	100.7	100.5	100.5	100.5	100.5	100.3	100.1	100.1	100.1		
	D10	391.64	3.56	100.2	100.2	100.2	100.1	100.0	100.0	100.1	99.9	99.7	99.6	99.6		
	D11	388.70	3.62	100.5	100.5	100.5	100.4	100.3	100.4	100.5	100.2	100.0	100.0	100.0		
	D12	396.11	3.58	100.3	100.3	100.3	100.2	100.1	100.1	100.2	100.0	99.8	99.7	99.8		
DE00001081CE031C	D1	398.03	3.37	100.2	100.2	100.2	100.1	100.0	100.0	100.1	99.9	99.7	99.5	99.5		
	D2	392.93	3.46	100.7	100.6	100.6	100.6	100.5	100.5	100.6	100.4	100.2	100.1	99.8		
	D3	384.56	3.68	101.3	101.2	101.2	101.1	101.0	101.0	101.1	100.8	100.6	100.4	100.3		
	D4	384.42	3.62	101.3	101.3	101.2	101.1	101.0	101.1	101.1	100.9	100.7	100.5	100.4		
	D5	388.80	3.53	96.7	96.7	96.6	96.5	96.4	96.3	96.3	96.0	95.8	95.8	95.7		
	D6	390.23	3.65	100.2	100.2	100.2	100.1	100.0	100.0	100.1	100.0	99.8	99.7	99.6		
	D7	392.65	3.50	99.4	99.4	99.3	99.3	99.2	99.2	99.3	99.0	98.8	98.7	98.7		
	D8	393.09	3.56	100.6	100.5	100.5	100.4	100.3	100.4	100.4	100.2	100.0	99.9	99.9		
	D9	396.21	3.64	100.0	99.9	99.9	99.8	99.7	99.7	99.8	99.6	99.3	99.2	99.2		
	D10	392.07	3.55	97.9	97.8	97.7	97.5	97.5	97.4	97.4	97.1	96.9	96.7	96.6		
	D11	401.96	3.58	99.2	99.2	99.1	99.0	99.0	99.0	99.1	98.8	98.6	98.6	98.6		
	D12	389.83	3.56	99.6	99.6	99.5	99.4	99.4	99.4	99.4	99.2	99.0	98.9	98.9		
n				24	24	24	24	24	24	24	24	24	24	24		
mean				99.5	99.4	99.4	99.3	99.2	99.2	99.2	99.0	98.8	98.7	98.6		
median				100.0	99.9	99.9	99.8	99.7	99.7	99.8	99.5	99.3	99.3	99.2		
std. dev.				1.5	1.5	1.5	1.6	1.6	1.6	1.6	1.7	1.7	1.7	1.8		
min				96.4	96.2	96.1	95.9	95.7	95.6	95.6	95.3	95.0	94.9	94.7		
max				101.3	101.3	101.2	101.1	101.0	101.1	101.1	100.9	100.7	100.5	100.4		

Test Condition 3 105 °C 1.050 A													
TABLE 4.0 - LUMEN MAINTENANCE RESULTS													GW CSSRM2.EM
Test Condition 3 105 °C 1.050 A													
Load board ID	Device number	Zero hour measurements		Photometric test drive current: 1.050 A Photometric test ambient temperature: 25 ± 2 °C Failures observed: none									
		Flux (lm)	Vf (V)	Lumen Maintenance (%)									
				23000	24000	25000							
1300001078A6031C	D1	390.84	3.35	95.9	95.7	95.6							
	D2	391.01	3.41	94.6	94.2	94.2							
	D3	393.08	3.47	98.2	98.0	97.9							
	D4	394.04	3.53	99.9	99.7	99.6							
	D5	390.62	3.53	99.2	98.9	98.9							
	D6	393.15	3.54	97.0	94.5	94.3							
	D7	385.92	3.46	94.7	94.5	94.4							
	D8	395.82	3.60	98.9	98.7	98.7							
	D9	393.70	3.64	100.0	99.8	99.8							
	D10	391.64	3.56	99.5	99.3	99.3							
	D11	388.70	3.62	99.8	99.7	99.6							
	D12	396.11	3.58	99.6	99.4	99.4							
DE00001081CE031C	D1	398.03	3.37	99.4	99.2	99.1							
	D2	392.93	3.46	99.7	99.5	99.4							
	D3	384.56	3.68	100.1	100.0	99.8							
	D4	384.42	3.62	100.3	100.1	100.0							
	D5	388.80	3.53	95.5	95.3	95.1							
	D6	390.23	3.65	99.5	99.3	99.3							
	D7	392.65	3.50	98.5	98.4	98.3							
	D8	393.09	3.56	99.8	99.6	99.5							
	D9	396.21	3.64	99.0	98.9	98.8							
	D10	392.07	3.55	96.5	96.3	96.1							
	D11	401.96	3.58	98.4	98.3	98.1							
	D12	389.83	3.56	98.8	98.6	98.5							
n mean median std. dev. min max				24	24	24							
				98.4	98.2	98.1							
				99.1	98.9	98.8							
				1.8	1.9	1.9							
				94.6	94.2	94.2							
				100.3	100.1	100.0							

Test Condition 3				105 °C		1.050 A								
TABLE 4.1 - RADIANT FLUX MAINTENANCE RESULTS														GW CSSRM2.EM
Test Condition 3				105 °C		1.050 A								
Load board ID	Device number	Zero hour measurements		Photometric test drive current: 1.050 A Photometric test ambient temperature: 25 ± 2 °C Failures observed: none										
		Flux (W)	VF (V)	Radiant Flux Maintenance (%)										
				1000	2000	3000	4000	5000	6000	7000	8000	9000	10000	11000
1300001078A6031C	D1	1.1814	3.35	98.6	98.2	98.0	98.0	97.6	97.4	97.3	97.3	97.1	97.1	97.0
	D2	1.1796	3.41	98.5	97.9	97.7	97.4	97.0	96.8	96.6	96.5	96.3	96.3	96.1
	D3	1.1864	3.47	99.9	99.6	99.5	99.5	99.2	99.1	99.0	99.0	98.9	99.0	98.9
	D4	1.1864	3.53	100.1	100.1	100.1	100.1	100.0	99.9	99.9	99.9	100.0	100.1	100.1
	D5	1.1852	3.53	99.8	99.6	99.6	99.6	99.4	99.4	99.3	99.3	99.3	99.4	99.4
	D6	1.1863	3.54	98.9	98.6	98.6	98.6	98.4	98.3	98.3	98.3	98.3	98.5	98.4
	D7	1.1706	3.46	98.6	98.0	97.7	97.5	97.1	96.8	96.7	96.6	96.4	96.4	96.2
	D8	1.2006	3.60	99.2	99.0	99.0	99.1	98.9	98.8	98.9	98.9	98.9	99.0	99.0
	D9	1.1891	3.64	100.2	100.1	100.2	100.2	100.0	100.0	100.0	100.0	100.0	100.1	100.0
	D10	1.1878	3.56	99.9	99.7	99.8	99.8	99.6	99.6	99.6	99.6	99.6	99.8	99.7
	D11	1.1776	3.62	100.1	100.0	100.1	100.0	99.9	99.8	99.8	99.8	99.8	99.9	99.9
	D12	1.1929	3.58	100.0	99.8	99.9	100.0	99.8	99.7	99.8	99.7	99.8	99.9	99.9
DE00001081CE031C	D1	1.2079	3.37	100.0	100.0	100.0	100.0	99.7	99.7	99.7	99.7	99.7	99.8	99.7
	D2	1.1805	3.46	100.3	100.3	100.3	100.3	100.1	100.0	100.1	100.1	100.1	100.2	100.1
	D3	1.1627	3.68	101.0	101.0	100.9	101.0	100.7	100.6	100.6	100.6	100.5	100.6	100.5
	D4	1.1650	3.62	100.7	100.7	100.7	100.7	100.5	100.4	100.5	100.4	100.4	100.5	100.5
	D5	1.1770	3.53	98.1	97.7	97.4	97.4	97.0	96.7	96.8	96.6	96.5	96.5	96.3
	D6	1.1791	3.65	99.7	99.5	99.6	99.6	99.4	99.3	99.5	99.4	99.5	99.6	99.5
	D7	1.1896	3.50	99.4	99.2	99.1	99.1	98.8	98.7	98.8	98.7	98.7	98.8	98.7
	D8	1.1869	3.56	100.0	100.0	100.0	100.0	99.8	99.8	99.9	99.8	99.8	100.0	99.9
	D9	1.1997	3.64	99.7	99.6	99.6	99.8	99.5	99.4	99.5	99.4	99.4	99.5	99.4
	D10	1.1837	3.55	99.2	98.8	98.6	98.5	98.1	97.9	97.9	97.7	97.7	97.7	97.6
	D11	1.2185	3.58	99.4	99.2	99.1	99.1	98.8	98.7	98.8	98.7	98.7	98.8	98.7
	D12	1.1847	3.56	99.5	99.4	99.3	99.3	99.2	99.1	99.2	99.0	99.0	99.2	99.1
n				24	24	24	24	24	24	24	24	24	24	24
mean				99.6	99.4	99.4	99.4	99.1	99.0	99.0	99.0	98.9	99.0	98.9
median				99.7	99.6	99.6	99.6	99.4	99.4	99.4	99.4	99.4	99.5	99.4
std. dev.				0.7	0.9	0.9	1.0	1.1	1.1	1.2	1.2	1.3	1.3	1.3
min				98.1	97.7	97.4	97.4	97.0	96.7	96.6	96.5	96.3	96.3	96.1
max				101.0	101.0	100.9	101.0	100.7	100.6	100.6	100.6	100.5	100.6	100.5

Test Condition 3 105 °C 1.050 A														
TABLE 4.1 - RADIANT FLUX MAINTENANCE RESULTS														GW CSSRM2.EM
Test Condition 3 105 °C 1.050 A														
Load board ID	Device number	Zero hour measurements		Photometric test drive current: 1.050 A Photometric test ambient temperature: 25 ± 2 °C Failures observed: none										
		Flux (W)	VF (V)	Radiant Flux Maintenance (%)										
				12000	13000	14000	15000	16000	17000	18000	19000	20000	21000	22000
1300001078A6031C	D1	1.1814	3.35	96.9	96.8	96.7	96.5	96.3	96.3	96.2	95.9	95.6	95.6	95.5
	D2	1.1796	3.41	96.0	95.8	95.6	95.5	95.2	95.2	95.1	94.8	94.5	94.3	94.2
	D3	1.1864	3.47	98.8	98.7	98.6	98.5	98.5	98.4	98.4	98.1	97.9	97.7	97.6
	D4	1.1864	3.53	100.0	100.0	99.9	99.8	99.8	99.8	99.8	99.6	99.3	99.2	99.2
	D5	1.1852	3.53	99.4	99.2	99.2	99.1	99.0	99.0	99.0	98.7	98.5	98.5	98.5
	D6	1.1863	3.54	98.4	98.3	98.3	98.1	98.1	98.0	98.1	97.8	97.7	96.9	96.2
	D7	1.1706	3.46	96.1	95.9	95.8	95.5	95.4	95.3	95.2	94.9	94.7	94.5	94.4
	D8	1.2006	3.60	99.0	99.0	98.9	98.8	98.8	98.8	98.8	98.6	98.4	98.3	98.3
	D9	1.1891	3.64	100.1	100.0	99.9	99.8	99.7	99.7	99.7	99.4	99.3	99.3	99.3
	D10	1.1878	3.56	99.6	99.6	99.6	99.4	99.4	99.4	99.4	99.1	99.0	98.9	98.8
	D11	1.1776	3.62	99.9	99.9	99.8	99.7	99.6	99.6	99.7	99.5	99.2	99.2	99.2
	D12	1.1929	3.58	99.8	99.8	99.7	99.6	99.6	99.6	99.6	99.4	99.2	99.1	99.1
DE00001081CE031C	D1	1.2079	3.37	99.7	99.7	99.6	99.5	99.4	99.5	99.4	99.3	99.0	98.8	98.8
	D2	1.1805	3.46	100.2	100.1	100.1	100.0	99.9	99.9	99.9	99.7	99.5	99.4	99.1
	D3	1.1627	3.68	100.4	100.4	100.3	100.2	100.1	100.1	100.1	99.8	99.5	99.4	99.3
	D4	1.1650	3.62	100.5	100.4	100.3	100.2	100.1	100.2	100.1	99.9	99.7	99.5	99.4
	D5	1.1770	3.53	96.3	96.2	96.1	96.0	95.8	95.8	95.8	95.5	95.2	95.2	95.1
	D6	1.1791	3.65	99.6	99.5	99.5	99.4	99.3	99.3	99.4	99.2	98.9	98.9	98.8
	D7	1.1896	3.50	98.7	98.7	98.6	98.5	98.4	98.4	98.4	98.2	98.0	97.8	97.8
	D8	1.1869	3.56	99.9	99.9	99.8	99.7	99.5	99.6	99.6	99.4	99.2	99.1	99.1
	D9	1.1997	3.64	99.4	99.4	99.3	99.2	99.0	99.1	99.1	98.8	98.6	98.5	98.4
	D10	1.1837	3.55	97.4	97.4	97.2	97.1	96.9	96.9	96.8	96.6	96.3	96.1	96.0
	D11	1.2185	3.58	98.7	98.7	98.5	98.5	98.4	98.4	98.4	98.1	97.9	97.9	97.8
	D12	1.1847	3.56	99.1	99.1	99.0	98.9	98.7	98.8	98.8	98.5	98.4	98.2	98.2
n mean median std. dev. min max				24	24	24	24	24	24	24	24	24	24	24
				98.9	98.8	98.8	98.6	98.5	98.5	98.5	98.3	98.1	97.9	97.8
				99.4	99.3	99.3	99.1	99.0	99.0	99.0	98.8	98.6	98.5	98.4
				1.4	1.4	1.4	1.5	1.5	1.5	1.6	1.6	1.6	1.6	1.7
				96.0	95.8	95.6	95.5	95.2	95.2	95.1	94.8	94.5	94.3	94.2
				100.5	100.4	100.3	100.2	100.1	100.2	100.1	99.9	99.7	99.5	99.4

Test Condition 3				105 °C	1.050 A											
TABLE 4.1 - RADIANT FLUX MAINTENANCE RESULTS																GW CSSRM2.EM
Test Condition 3				105 °C	1.050 A											
Load board ID	Device number	Zero hour measurements		Photometric test drive current: 1.050 A Photometric test ambient temperature: 25 ± 2 °C Failures observed: none												
		Flux (W)	VF (V)	Radiant Flux Maintenance (%)												
				23000	24000	25000										
1300001078A6031C	D1	1.1814	3.35	95.2	95.0	94.8										
	D2	1.1796	3.41	93.9	93.5	93.5										
	D3	1.1864	3.47	97.4	97.1	97.1										
	D4	1.1864	3.53	99.0	98.8	98.7										
	D5	1.1852	3.53	98.3	98.0	97.9										
	D6	1.1863	3.54	96.3	93.8	93.7										
	D7	1.1706	3.46	94.1	93.9	93.8										
	D8	1.2006	3.60	98.1	97.8	97.9										
	D9	1.1891	3.64	99.0	98.9	98.8										
	D10	1.1878	3.56	98.7	98.5	98.4										
	D11	1.1776	3.62	98.9	98.8	98.7										
	D12	1.1929	3.58	98.9	98.7	98.6										
DE00001081CE031C	D1	1.2079	3.37	98.6	98.4	98.3										
	D2	1.1805	3.46	98.9	98.7	98.6										
	D3	1.1627	3.68	99.0	98.9	98.7										
	D4	1.1650	3.62	99.2	99.0	98.9										
	D5	1.1770	3.53	94.8	94.6	94.5										
	D6	1.1791	3.65	98.6	98.4	98.3										
	D7	1.1896	3.50	97.6	97.4	97.4										
	D8	1.1869	3.56	98.8	98.6	98.5										
	D9	1.1997	3.64	98.2	98.0	97.9										
	D10	1.1837	3.55	95.8	95.6	95.4										
	D11	1.2185	3.58	97.6	97.4	97.3										
	D12	1.1847	3.56	98.0	97.8	97.7										
n				24	24	24										
mean				97.6	97.3	97.2										
median				98.2	98.0	97.9										
std. dev.				1.7	1.8	1.8										
min				93.9	93.5	93.5										
max				99.2	99.0	98.9										

Test Condition 3				105 °C		1.050 A								
TABLE 4.2 - PHOTOSYNTHETIC PHOTON FLUX MAINTENANCE RESULTS													GW CSSRM2.EM	
Test Condition 3				105 °C		1.050 A								
Load board ID	Device number	Zero hour measurements		Photometric test drive current: 1.050 A Photometric test ambient temperature: 25 ± 2 °C Failures observed: none										
		PPF (μmol/s)	VF (V)	Photosynthetic Photon Flux Maintenance (%)										
				1000	2000	3000	4000	5000	6000	7000	8000	9000	10000	11000
1300001078A6031C	D1	5.4609	3.35	98.6	98.2	98.0	97.9	97.6	97.4	97.3	97.2	97.1	97.0	96.9
	D2	5.4494	3.41	98.5	97.9	97.6	97.4	97.0	96.7	96.6	96.4	96.3	96.2	96.1
	D3	5.4796	3.47	99.8	99.6	99.5	99.4	99.2	99.0	99.0	98.9	98.9	98.9	98.8
	D4	5.4785	3.53	100.1	100.1	100.1	100.1	99.9	99.8	99.9	99.9	99.9	100.0	100.0
	D5	5.4764	3.53	99.7	99.5	99.5	99.6	99.4	99.3	99.3	99.3	99.3	99.4	99.3
	D6	5.4855	3.54	98.9	98.6	98.6	98.5	98.3	98.3	98.3	98.3	98.3	98.4	98.4
	D7	5.4130	3.46	98.5	98.0	97.7	97.4	97.1	96.8	96.6	96.5	96.4	96.3	96.2
	D8	5.5403	3.60	99.2	99.0	99.0	99.0	98.9	98.8	98.8	98.8	98.9	99.0	99.0
	D9	5.4891	3.64	100.2	100.1	100.2	100.2	100.0	100.0	100.0	100.0	100.0	100.1	100.0
	D10	5.4886	3.56	99.8	99.7	99.8	99.8	99.6	99.5	99.6	99.6	99.6	99.7	99.7
	D11	5.4471	3.62	100.1	100.0	100.0	100.0	99.8	99.8	99.8	99.8	99.8	99.9	99.9
	D12	5.5065	3.58	99.9	99.8	99.8	99.9	99.7	99.7	99.7	99.7	99.7	99.9	99.8
DE00001081CE031C	D1	5.5591	3.37	100.0	99.9	99.9	100.0	99.7	99.7	99.7	99.6	99.7	99.7	99.6
	D2	5.4551	3.46	100.2	100.2	100.2	100.3	100.0	100.0	100.0	100.0	100.1	100.2	100.1
	D3	5.3769	3.68	101.0	101.0	101.0	101.0	100.7	100.6	100.6	100.6	100.6	100.6	100.5
	D4	5.3844	3.62	100.7	100.7	100.7	100.7	100.5	100.4	100.5	100.4	100.5	100.6	100.5
	D5	5.4382	3.53	98.0	97.6	97.4	97.3	97.0	96.7	96.7	96.5	96.5	96.5	96.3
	D6	5.4421	3.65	99.6	99.5	99.6	99.6	99.4	99.3	99.4	99.4	99.5	99.6	99.5
	D7	5.5000	3.50	99.4	99.1	99.1	99.1	98.8	98.7	98.8	98.7	98.7	98.8	98.7
	D8	5.4790	3.56	100.0	100.0	100.0	100.1	99.9	99.8	99.9	99.8	99.8	100.0	99.9
	D9	5.5292	3.64	99.6	99.6	99.6	99.7	99.4	99.4	99.4	99.3	99.3	99.5	99.3
	D10	5.4589	3.55	99.2	98.8	98.6	98.4	98.0	97.9	97.8	97.7	97.6	97.7	97.5
	D11	5.6112	3.58	99.4	99.2	99.1	99.0	98.7	98.7	98.7	98.6	98.7	98.8	98.7
	D12	5.4716	3.56	99.4	99.3	99.3	99.3	99.1	99.0	99.1	99.0	99.0	99.1	99.0
n mean median std. dev. min max				24	24	24	24	24	24	24	24	24	24	24
				99.6	99.4	99.3	99.3	99.1	99.0	99.0	98.9	98.9	99.0	98.9
				99.7	99.6	99.5	99.6	99.4	99.3	99.4	99.3	99.3	99.4	99.3
				0.7	0.9	1.0	1.0	1.1	1.1	1.2	1.2	1.3	1.3	1.4
				98.0	97.6	97.4	97.3	97.0	96.7	96.6	96.4	96.3	96.2	96.1
				101.0	101.0	101.0	101.0	100.7	100.6	100.6	100.6	100.6	100.6	100.5

Test Condition 3				105 °C		1.050 A								
TABLE 4.2 - PHOTOSYNTHETIC PHOTON FLUX MAINTENANCE RESULTS													GW CSSRM2.EM	
Test Condition 3				105 °C		1.050 A								
Load board ID	Device number	Zero hour measurements		Photometric test drive current: 1.050 A Photometric test ambient temperature: 25 ± 2 °C Failures observed: none										
		PPF (μmol/s)	VF (V)	Photosynthetic Photon Flux Maintenance (%)										
				12000	13000	14000	15000	16000	17000	18000	19000	20000	21000	22000
1300001078A6031C	D1	5.4609	3.35	96.9	96.7	96.6	96.5	96.3	96.3	96.2	95.9	95.6	95.6	95.4
	D2	5.4494	3.41	95.9	95.8	95.6	95.4	95.2	95.1	95.1	94.8	94.5	94.3	94.1
	D3	5.4796	3.47	98.8	98.7	98.6	98.5	98.4	98.3	98.3	98.1	97.8	97.7	97.6
	D4	5.4785	3.53	100.0	99.9	99.9	99.8	99.7	99.8	99.8	99.6	99.3	99.2	99.2
	D5	5.4764	3.53	99.3	99.2	99.2	99.1	98.9	98.9	98.9	98.7	98.5	98.5	98.4
	D6	5.4855	3.54	98.3	98.3	98.2	98.1	98.0	98.0	98.1	97.8	97.6	96.9	96.2
	D7	5.4130	3.46	96.0	95.9	95.7	95.5	95.4	95.3	95.2	94.9	94.6	94.5	94.4
	D8	5.5403	3.60	98.9	98.9	98.9	98.8	98.8	98.8	98.8	98.6	98.4	98.3	98.2
	D9	5.4891	3.64	100.0	100.0	99.9	99.8	99.7	99.7	99.7	99.5	99.3	99.3	99.3
	D10	5.4886	3.56	99.6	99.6	99.5	99.4	99.4	99.3	99.4	99.2	98.9	98.8	98.8
	D11	5.4471	3.62	99.8	99.8	99.8	99.7	99.6	99.6	99.7	99.4	99.2	99.2	99.1
	D12	5.5065	3.58	99.8	99.8	99.7	99.6	99.5	99.5	99.6	99.3	99.2	99.0	99.0
DE00001081CE031C	D1	5.5591	3.37	99.6	99.6	99.6	99.4	99.4	99.4	99.4	99.2	99.0	98.8	98.7
	D2	5.4551	3.46	100.1	100.1	100.0	99.9	99.9	99.9	99.9	99.7	99.5	99.4	99.0
	D3	5.3769	3.68	100.4	100.4	100.3	100.2	100.1	100.1	100.1	99.8	99.6	99.4	99.3
	D4	5.3844	3.62	100.5	100.4	100.3	100.3	100.2	100.2	100.2	99.9	99.7	99.5	99.5
	D5	5.4382	3.53	96.2	96.2	96.1	96.0	95.8	95.8	95.7	95.4	95.2	95.2	95.0
	D6	5.4421	3.65	99.5	99.5	99.4	99.4	99.3	99.3	99.3	99.2	98.9	98.8	98.8
	D7	5.5000	3.50	98.7	98.7	98.6	98.5	98.4	98.4	98.4	98.2	98.0	97.9	97.8
	D8	5.4790	3.56	99.9	99.9	99.8	99.7	99.6	99.6	99.6	99.4	99.2	99.1	99.1
	D9	5.5292	3.64	99.3	99.3	99.2	99.1	99.0	99.0	99.0	98.8	98.6	98.4	98.3
	D10	5.4589	3.55	97.4	97.3	97.2	97.0	96.9	96.8	96.8	96.5	96.2	96.1	96.0
	D11	5.6112	3.58	98.6	98.6	98.5	98.4	98.3	98.3	98.3	98.1	97.9	97.9	97.8
	D12	5.4716	3.56	99.0	99.0	98.9	98.8	98.7	98.7	98.7	98.5	98.4	98.2	98.2
n mean median std. dev. min max				24	24	24	24	24	24	24	24	24	24	24
				98.9	98.8	98.7	98.6	98.5	98.5	98.5	98.3	98.0	97.9	97.8
				99.3	99.2	99.2	99.1	99.0	99.0	99.0	98.8	98.5	98.4	98.4
				1.4	1.4	1.4	1.5	1.5	1.5	1.6	1.6	1.6	1.6	1.7
				95.9	95.8	95.6	95.4	95.2	95.1	95.1	94.8	94.5	94.3	94.1
				100.5	100.4	100.3	100.3	100.2	100.2	100.2	99.9	99.7	99.5	99.5

Test Condition 3				105 °C	1.050 A											
TABLE 4.2 - PHOTOSYNTHETIC PHOTON FLUX MAINTENANCE RESULTS															GW CSSRM2.EM	
Test Condition 3				105 °C	1.050 A											
Load board ID	Device number	Zero hour measurements		Photometric test drive current: 1.050 A Photometric test ambient temperature: 25 ± 2 °C Failures observed: none												
		PPF (μmol/s)	VF (V)	Photosynthetic Photon Flux Maintenance (%)												
				23000	24000	25000										
1300001078A6031C	D1	5.4609	3.35	95.2	95.0	94.8										
	D2	5.4494	3.41	93.9	93.5	93.5										
	D3	5.4796	3.47	97.4	97.1	97.1										
	D4	5.4785	3.53	99.0	98.8	98.8										
	D5	5.4764	3.53	98.2	98.0	97.9										
	D6	5.4855	3.54	96.2	93.8	93.7										
	D7	5.4130	3.46	94.1	93.9	93.8										
	D8	5.5403	3.60	98.1	97.9	97.9										
	D9	5.4891	3.64	99.1	98.9	98.9										
	D10	5.4886	3.56	98.7	98.4	98.4										
	D11	5.4471	3.62	98.9	98.8	98.8										
	D12	5.5065	3.58	98.9	98.6	98.6										
DE00001081CE031C	D1	5.5591	3.37	98.6	98.4	98.3										
	D2	5.4551	3.46	98.9	98.7	98.6										
	D3	5.3769	3.68	99.1	98.9	98.8										
	D4	5.3844	3.62	99.2	99.1	99.0										
	D5	5.4382	3.53	94.8	94.6	94.5										
	D6	5.4421	3.65	98.6	98.4	98.3										
	D7	5.5000	3.50	97.6	97.5	97.4										
	D8	5.4790	3.56	98.9	98.7	98.6										
	D9	5.5292	3.64	98.1	98.0	97.9										
	D10	5.4589	3.55	95.7	95.5	95.4										
	D11	5.6112	3.58	97.6	97.4	97.3										
	D12	5.4716	3.56	98.0	97.8	97.8										
n mean median std. dev. min max				24	24	24										
				97.6	97.3	97.3										
				98.2	98.0	97.9										
				1.7	1.8	1.8										
				93.9	93.5	93.5										
				99.2	99.1	99.0										

Test Condition 3				105 °C		1.050 A									
TABLE 4.3 - CHROMATICITY COORDINATE U' RESULTS															GW CSSRM2.EM
Test Condition 3				105 °C		1.050 A									
Load board ID	Device number	Zero hour measurements		Photometric test drive current: 1.050 A Photometric test ambient temperature: 25 ± 2 °C Failures observed: none											
		u'		Chromaticity Coordinate u'											
				1000	2000	3000	4000	5000	6000	7000	8000	9000	10000	11000	
1300001078A6031C	D1		0.2354	0.2344	0.2343	0.2343	0.2342	0.2342	0.2341	0.2342	0.2341	0.2341	0.2340	0.2341	
	D2		0.2339	0.2330	0.2329	0.2328	0.2328	0.2328	0.2327	0.2327	0.2327	0.2327	0.2327	0.2327	
	D3		0.2340	0.2329	0.2328	0.2327	0.2326	0.2326	0.2325	0.2325	0.2324	0.2325	0.2325	0.2324	
	D4		0.2332	0.2322	0.2321	0.2321	0.2321	0.2320	0.2320	0.2320	0.2319	0.2319	0.2319	0.2319	
	D5		0.2353	0.2340	0.2339	0.2338	0.2337	0.2336	0.2336	0.2336	0.2335	0.2335	0.2335	0.2335	
	D6		0.2349	0.2339	0.2337	0.2337	0.2335	0.2335	0.2335	0.2334	0.2334	0.2334	0.2334	0.2334	
	D7		0.2363	0.2354	0.2353	0.2353	0.2352	0.2351	0.2351	0.2351	0.2351	0.2351	0.2351	0.2351	
	D8		0.2338	0.2328	0.2327	0.2327	0.2326	0.2325	0.2325	0.2325	0.2324	0.2324	0.2324	0.2324	
	D9		0.2334	0.2324	0.2323	0.2322	0.2321	0.2320	0.2321	0.2321	0.2320	0.2320	0.2320	0.2320	
	D10		0.2354	0.2345	0.2344	0.2344	0.2343	0.2342	0.2342	0.2342	0.2342	0.2342	0.2342	0.2341	
	D11		0.2362	0.2350	0.2349	0.2348	0.2347	0.2347	0.2346	0.2347	0.2346	0.2346	0.2346	0.2345	
	D12		0.2327	0.2318	0.2316	0.2316	0.2315	0.2314	0.2314	0.2314	0.2313	0.2313	0.2313	0.2313	
DE00001081CE031C	D1		0.2306	0.2297	0.2295	0.2295	0.2294	0.2294	0.2293	0.2293	0.2293	0.2293	0.2293	0.2292	
	D2		0.2336	0.2327	0.2325	0.2324	0.2324	0.2323	0.2322	0.2323	0.2322	0.2322	0.2322	0.2322	
	D3		0.2356	0.2346	0.2344	0.2344	0.2344	0.2343	0.2342	0.2343	0.2343	0.2342	0.2342	0.2342	
	D4		0.2359	0.2350	0.2349	0.2349	0.2348	0.2347	0.2347	0.2347	0.2347	0.2347	0.2346	0.2346	
	D5		0.2349	0.2342	0.2340	0.2340	0.2340	0.2339	0.2338	0.2339	0.2339	0.2338	0.2338	0.2338	
	D6		0.2330	0.2321	0.2319	0.2319	0.2319	0.2318	0.2317	0.2317	0.2317	0.2317	0.2317	0.2317	
	D7		0.2357	0.2347	0.2346	0.2345	0.2345	0.2344	0.2344	0.2344	0.2344	0.2343	0.2343	0.2343	
	D8		0.2337	0.2327	0.2326	0.2325	0.2325	0.2324	0.2323	0.2324	0.2324	0.2323	0.2323	0.2323	
	D9		0.2321	0.2310	0.2308	0.2307	0.2307	0.2306	0.2305	0.2305	0.2305	0.2305	0.2304	0.2304	
	D10		0.2321	0.2310	0.2309	0.2308	0.2308	0.2307	0.2306	0.2307	0.2307	0.2306	0.2306	0.2306	
	D11		0.2311	0.2301	0.2300	0.2299	0.2298	0.2298	0.2297	0.2297	0.2297	0.2297	0.2297	0.2297	
	D12		0.2351	0.2342	0.2341	0.2340	0.2340	0.2339	0.2338	0.2339	0.2339	0.2339	0.2338	0.2338	
n				24	24	24	24	24	24	24	24	24	24	24	
mean				0.2331	0.2330	0.2329	0.2329	0.2328	0.2327	0.2328	0.2327	0.2327	0.2327	0.2327	
median				0.2330	0.2329	0.2328	0.2327	0.2327	0.2326	0.2326	0.2326	0.2326	0.2326	0.2325	
std. dev.				0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	
min				0.2297	0.2295	0.2295	0.2294	0.2294	0.2293	0.2293	0.2293	0.2293	0.2293	0.2292	
max				0.2354	0.2353	0.2353	0.2352	0.2351	0.2351	0.2351	0.2351	0.2351	0.2351	0.2351	

Test Condition 3				105 °C		1.050 A										
TABLE 4.3 - CHROMATICITY COORDINATE U' RESULTS															GW CSSRM2.EM	
Test Condition 3				105 °C		1.050 A										
Load board ID	Device number	Zero hour measurements		Photometric test drive current: 1.050 A Photometric test ambient temperature: 25 ± 2 °C Failures observed: none												
		u'		Chromaticity Coordinate u'												
				12000	13000	14000	15000	16000	17000	18000	19000	20000	21000	22000		
1300001078A6031C	D1		0.2354	0.2340	0.2340	0.2340	0.2340	0.2340	0.2340	0.2339	0.2341	0.2340	0.2340	0.2339		
	D2		0.2339	0.2327	0.2327	0.2327	0.2326	0.2326	0.2326	0.2326	0.2327	0.2326	0.2326	0.2326		
	D3		0.2340	0.2324	0.2324	0.2323	0.2323	0.2323	0.2323	0.2322	0.2323	0.2323	0.2322	0.2322		
	D4		0.2332	0.2319	0.2319	0.2318	0.2318	0.2318	0.2318	0.2317	0.2318	0.2318	0.2318	0.2318		
	D5		0.2353	0.2335	0.2334	0.2334	0.2334	0.2334	0.2334	0.2333	0.2334	0.2334	0.2333	0.2332		
	D6		0.2349	0.2334	0.2334	0.2333	0.2333	0.2333	0.2333	0.2333	0.2333	0.2333	0.2332	0.2332		
	D7		0.2363	0.2351	0.2351	0.2350	0.2351	0.2350	0.2350	0.2350	0.2351	0.2351	0.2351	0.2350		
	D8		0.2338	0.2324	0.2324	0.2323	0.2324	0.2323	0.2323	0.2322	0.2323	0.2323	0.2323	0.2322		
	D9		0.2334	0.2320	0.2319	0.2319	0.2319	0.2319	0.2319	0.2318	0.2319	0.2319	0.2317	0.2317		
	D10		0.2354	0.2341	0.2341	0.2341	0.2341	0.2341	0.2340	0.2340	0.2341	0.2341	0.2340	0.2340		
	D11		0.2362	0.2345	0.2345	0.2345	0.2345	0.2345	0.2345	0.2344	0.2344	0.2345	0.2344	0.2344		
	D12		0.2327	0.2313	0.2313	0.2313	0.2312	0.2313	0.2312	0.2312	0.2312	0.2312	0.2312	0.2311		
DE00001081CE031C	D1		0.2306	0.2292	0.2292	0.2292	0.2292	0.2292	0.2292	0.2292	0.2292	0.2292	0.2292	0.2292		
	D2		0.2336	0.2322	0.2322	0.2321	0.2321	0.2321	0.2321	0.2320	0.2321	0.2321	0.2321	0.2321		
	D3		0.2356	0.2342	0.2342	0.2341	0.2341	0.2341	0.2341	0.2341	0.2341	0.2342	0.2341	0.2341		
	D4		0.2359	0.2346	0.2346	0.2345	0.2345	0.2345	0.2345	0.2345	0.2345	0.2345	0.2346	0.2345		
	D5		0.2349	0.2338	0.2337	0.2336	0.2336	0.2337	0.2337	0.2336	0.2337	0.2337	0.2336	0.2335		
	D6		0.2330	0.2316	0.2316	0.2316	0.2316	0.2316	0.2316	0.2316	0.2316	0.2316	0.2316	0.2316		
	D7		0.2357	0.2343	0.2343	0.2343	0.2342	0.2342	0.2342	0.2342	0.2342	0.2342	0.2342	0.2342		
	D8		0.2337	0.2323	0.2322	0.2322	0.2322	0.2323	0.2323	0.2322	0.2322	0.2323	0.2322	0.2322		
	D9		0.2321	0.2304	0.2304	0.2304	0.2303	0.2303	0.2303	0.2303	0.2303	0.2303	0.2303	0.2303		
	D10		0.2321	0.2306	0.2306	0.2306	0.2305	0.2306	0.2305	0.2305	0.2306	0.2306	0.2306	0.2305		
	D11		0.2311	0.2296	0.2296	0.2296	0.2295	0.2296	0.2296	0.2295	0.2295	0.2296	0.2295	0.2294		
	D12		0.2351	0.2338	0.2338	0.2337	0.2338	0.2337	0.2338	0.2337	0.2337	0.2338	0.2337	0.2337		
n				24	24	24	24	24	24	24	24	24	24	24		
mean				0.2327	0.2326	0.2326	0.2326	0.2326	0.2326	0.2325	0.2326	0.2326	0.2326	0.2325		
median				0.2325	0.2325	0.2325	0.2325	0.2324	0.2324	0.2324	0.2325	0.2325	0.2324	0.2324		
std. dev.				0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016		
min				0.2292	0.2292	0.2292	0.2292	0.2292	0.2292	0.2292	0.2292	0.2292	0.2292	0.2292		
max				0.2351	0.2351	0.2350	0.2351	0.2350	0.2350	0.2350	0.2351	0.2351	0.2351	0.2350		

Test Condition 3				105 °C	1.050 A										
TABLE 4.3 - CHROMATICITY COORDINATE U' RESULTS															GW CSSRM2.EM
Test Condition 3				105 °C	1.050 A										
Load board ID	Device number	Zero hour measurements		Photometric test drive current: 1.050 A Photometric test ambient temperature: 25 ± 2 °C Failures observed: none											
		u'		Chromaticity Coordinate u'											
				23000	24000	25000									
1300001078A6031C	D1		0.2354	0.2340	0.2340	0.2340									
	D2		0.2339	0.2326	0.2326	0.2327									
	D3		0.2340	0.2322	0.2322	0.2323									
	D4		0.2332	0.2317	0.2318	0.2318									
	D5		0.2353	0.2332	0.2333	0.2333									
	D6		0.2349	0.2330	0.2332	0.2332									
	D7		0.2363	0.2350	0.2350	0.2351									
	D8		0.2338	0.2323	0.2323	0.2323									
	D9		0.2334	0.2317	0.2317	0.2317									
	D10		0.2354	0.2340	0.2340	0.2340									
	D11		0.2362	0.2344	0.2344	0.2345									
	D12		0.2327	0.2312	0.2312	0.2312									
DE00001081CE031C	D1		0.2306	0.2291	0.2292	0.2292									
	D2		0.2336	0.2320	0.2321	0.2321									
	D3		0.2356	0.2341	0.2341	0.2342									
	D4		0.2359	0.2345	0.2345	0.2346									
	D5		0.2349	0.2335	0.2335	0.2336									
	D6		0.2330	0.2315	0.2316	0.2316									
	D7		0.2357	0.2342	0.2342	0.2343									
	D8		0.2337	0.2322	0.2322	0.2323									
	D9		0.2321	0.2303	0.2303	0.2303									
	D10		0.2321	0.2305	0.2306	0.2306									
	D11		0.2311	0.2294	0.2295	0.2295									
	D12		0.2351	0.2337	0.2337	0.2338									
n				24	24	24									
mean				0.2325	0.2326	0.2326									
median				0.2324	0.2324	0.2325									
std. dev.				0.0016	0.0016	0.0016									
min				0.2291	0.2292	0.2292									
max				0.2350	0.2350	0.2351									

Test Condition 3				105 °C	1.050 A										
TABLE 4.4 - CHROMATICITY COORDINATE V' RESULTS															GW CSSRM2.EM
Test Condition 3				105 °C	1.050 A										
Load board ID	Device number	Zero hour measurements		Photometric test drive current: 1.050 A Photometric test ambient temperature: 25 ± 2 °C Failures observed: none											
		v'		Chromaticity Coordinate v'											
				1000	2000	3000	4000	5000	6000	7000	8000	9000	10000	11000	
1300001078A6031C	D1		0.5205	0.5205	0.5206	0.5206	0.5207	0.5207	0.5207	0.5207	0.5208	0.5208	0.5207	0.5208	
	D2		0.5201	0.5202	0.5202	0.5202	0.5203	0.5203	0.5203	0.5203	0.5203	0.5204	0.5203	0.5204	
	D3		0.5204	0.5203	0.5204	0.5204	0.5205	0.5205	0.5206	0.5205	0.5206	0.5206	0.5206	0.5207	
	D4		0.5204	0.5205	0.5206	0.5206	0.5207	0.5207	0.5208	0.5208	0.5208	0.5209	0.5208	0.5209	
	D5		0.5191	0.5191	0.5193	0.5193	0.5193	0.5194	0.5194	0.5194	0.5195	0.5195	0.5194	0.5195	
	D6		0.5205	0.5205	0.5206	0.5206	0.5207	0.5207	0.5207	0.5208	0.5208	0.5208	0.5208	0.5208	
	D7		0.5201	0.5201	0.5201	0.5201	0.5202	0.5202	0.5202	0.5202	0.5203	0.5203	0.5202	0.5203	
	D8		0.5186	0.5186	0.5186	0.5187	0.5188	0.5188	0.5188	0.5188	0.5189	0.5189	0.5188	0.5189	
	D9		0.5196	0.5197	0.5199	0.5199	0.5200	0.5200	0.5201	0.5201	0.5201	0.5202	0.5201	0.5202	
	D10		0.5196	0.5197	0.5199	0.5199	0.5200	0.5200	0.5200	0.5201	0.5201	0.5201	0.5201	0.5201	
	D11		0.5203	0.5204	0.5205	0.5205	0.5207	0.5207	0.5207	0.5207	0.5208	0.5208	0.5207	0.5208	
	D12		0.5200	0.5198	0.5199	0.5200	0.5201	0.5201	0.5201	0.5201	0.5201	0.5202	0.5201	0.5202	
DE00001081CE031C	D1		0.5162	0.5163	0.5163	0.5163	0.5164	0.5165	0.5165	0.5165	0.5165	0.5166	0.5165	0.5166	
	D2		0.5211	0.5211	0.5211	0.5211	0.5212	0.5213	0.5213	0.5213	0.5214	0.5213	0.5214	0.5214	
	D3		0.5206	0.5211	0.5213	0.5214	0.5215	0.5215	0.5216	0.5216	0.5217	0.5217	0.5216	0.5218	
	D4		0.5204	0.5209	0.5211	0.5212	0.5212	0.5214	0.5214	0.5214	0.5215	0.5215	0.5215	0.5216	
	D5		0.5195	0.5199	0.5199	0.5200	0.5200	0.5201	0.5201	0.5201	0.5201	0.5201	0.5201	0.5202	
	D6		0.5191	0.5194	0.5195	0.5196	0.5197	0.5198	0.5198	0.5197	0.5199	0.5199	0.5199	0.5199	
	D7		0.5200	0.5203	0.5204	0.5205	0.5206	0.5206	0.5206	0.5206	0.5207	0.5207	0.5207	0.5208	
	D8		0.5200	0.5202	0.5202	0.5203	0.5204	0.5204	0.5205	0.5205	0.5206	0.5206	0.5206	0.5206	
	D9		0.5181	0.5180	0.5180	0.5181	0.5181	0.5182	0.5183	0.5182	0.5183	0.5183	0.5183	0.5184	
	D10		0.5187	0.5186	0.5187	0.5187	0.5188	0.5188	0.5188	0.5188	0.5188	0.5188	0.5188	0.5189	
	D11		0.5167	0.5168	0.5168	0.5168	0.5169	0.5170	0.5170	0.5169	0.5171	0.5171	0.5171	0.5171	
	D12		0.5188	0.5190	0.5190	0.5191	0.5190	0.5191	0.5192	0.5191	0.5192	0.5192	0.5192	0.5193	
n				24	24	24	24	24	24	24	24	24	24	24	
mean				0.5196	0.5197	0.5198	0.5198	0.5199	0.5199	0.5199	0.5200	0.5200	0.5199	0.5200	
median				0.5200	0.5200	0.5201	0.5201	0.5202	0.5202	0.5201	0.5202	0.5202	0.5202	0.5202	
std. dev.				0.0012	0.0013	0.0013	0.0013	0.0013	0.0013	0.0013	0.0013	0.0013	0.0013	0.0013	
min				0.5163	0.5163	0.5163	0.5164	0.5165	0.5165	0.5165	0.5165	0.5166	0.5165	0.5166	
max				0.5211	0.5213	0.5214	0.5215	0.5215	0.5216	0.5216	0.5217	0.5217	0.5216	0.5218	

Test Condition 3				105 °C		1.050 A										
TABLE 4.4 - CHROMATICITY COORDINATE V' RESULTS															GW CSSRM2.EM	
Test Condition 3				105 °C		1.050 A										
Load board ID	Device number	Zero hour measurements		Photometric test drive current: 1.050 A Photometric test ambient temperature: 25 ± 2 °C Failures observed: none												
		v'		Chromaticity Coordinate v'												
				12000	13000	14000	15000	16000	17000	18000	19000	20000	21000	22000		
1300001078A6031C	D1		0.5205	0.5209	0.5209	0.5210	0.5210	0.5212	0.5212	0.5213	0.5213	0.5214	0.5215	0.5216		
	D2		0.5201	0.5204	0.5205	0.5205	0.5205	0.5207	0.5207	0.5208	0.5208	0.5209	0.5210	0.5210		
	D3		0.5204	0.5207	0.5208	0.5208	0.5208	0.5209	0.5210	0.5210	0.5212	0.5212	0.5213	0.5214		
	D4		0.5204	0.5209	0.5211	0.5211	0.5211	0.5212	0.5213	0.5213	0.5214	0.5215	0.5216	0.5217		
	D5		0.5191	0.5195	0.5196	0.5197	0.5197	0.5198	0.5199	0.5200	0.5200	0.5201	0.5201	0.5202		
	D6		0.5205	0.5209	0.5210	0.5210	0.5211	0.5211	0.5212	0.5213	0.5214	0.5214	0.5214	0.5213		
	D7		0.5201	0.5203	0.5204	0.5204	0.5204	0.5205	0.5205	0.5206	0.5207	0.5207	0.5207	0.5208		
	D8		0.5186	0.5189	0.5190	0.5191	0.5191	0.5192	0.5193	0.5193	0.5194	0.5194	0.5196	0.5197		
	D9		0.5196	0.5202	0.5203	0.5204	0.5204	0.5205	0.5206	0.5207	0.5207	0.5208	0.5207	0.5208		
	D10		0.5196	0.5201	0.5202	0.5203	0.5203	0.5204	0.5205	0.5205	0.5206	0.5207	0.5208	0.5208		
	D11		0.5203	0.5208	0.5208	0.5209	0.5209	0.5210	0.5211	0.5211	0.5212	0.5212	0.5213	0.5214		
	D12		0.5200	0.5202	0.5203	0.5204	0.5204	0.5205	0.5205	0.5206	0.5207	0.5207	0.5208	0.5209		
DE00001081CE031C	D1		0.5162	0.5166	0.5167	0.5167	0.5168	0.5169	0.5169	0.5170	0.5171	0.5172	0.5173	0.5173		
	D2		0.5211	0.5214	0.5214	0.5215	0.5216	0.5216	0.5216	0.5218	0.5219	0.5219	0.5220	0.5221		
	D3		0.5206	0.5218	0.5218	0.5219	0.5219	0.5220	0.5220	0.5221	0.5222	0.5223	0.5224	0.5225		
	D4		0.5204	0.5216	0.5216	0.5217	0.5218	0.5218	0.5219	0.5220	0.5221	0.5222	0.5223	0.5223		
	D5		0.5195	0.5202	0.5202	0.5202	0.5203	0.5204	0.5204	0.5204	0.5205	0.5206	0.5206	0.5206		
	D6		0.5191	0.5199	0.5200	0.5200	0.5201	0.5202	0.5202	0.5203	0.5204	0.5205	0.5206	0.5207		
	D7		0.5200	0.5208	0.5208	0.5209	0.5210	0.5210	0.5211	0.5211	0.5212	0.5213	0.5213	0.5214		
	D8		0.5200	0.5207	0.5207	0.5208	0.5209	0.5209	0.5209	0.5210	0.5211	0.5212	0.5213	0.5213		
	D9		0.5181	0.5184	0.5185	0.5186	0.5186	0.5187	0.5188	0.5188	0.5190	0.5190	0.5191	0.5192		
	D10		0.5187	0.5189	0.5189	0.5190	0.5191	0.5192	0.5192	0.5193	0.5194	0.5195	0.5196	0.5196		
	D11		0.5167	0.5172	0.5172	0.5173	0.5174	0.5174	0.5175	0.5176	0.5177	0.5178	0.5178	0.5178		
	D12		0.5188	0.5193	0.5194	0.5194	0.5195	0.5196	0.5196	0.5197	0.5197	0.5198	0.5199	0.5199		
n				24	24	24	24	24	24	24	24	24	24	24		
mean				0.5200	0.5201	0.5202	0.5202	0.5203	0.5203	0.5204	0.5205	0.5206	0.5206	0.5207		
median				0.5203	0.5203	0.5204	0.5204	0.5205	0.5206	0.5206	0.5207	0.5208	0.5208	0.5209		
std. dev.				0.0013	0.0013	0.0013	0.0013	0.0013	0.0013	0.0013	0.0013	0.0013	0.0013	0.0013		
min				0.5166	0.5167	0.5167	0.5168	0.5169	0.5169	0.5170	0.5171	0.5172	0.5173	0.5173		
max				0.5218	0.5218	0.5219	0.5219	0.5220	0.5220	0.5221	0.5222	0.5223	0.5224	0.5225		

Test Condition 3				105 °C	1.050 A										
TABLE 4.4 - CHROMATICITY COORDINATE V' RESULTS															GW CSSRM2.EM
Test Condition 3				105 °C	1.050 A										
Load board ID	Device number	Zero hour measurements		Photometric test drive current: 1.050 A Photometric test ambient temperature: 25 ± 2 °C Failures observed: none											
		v'		Chromaticity Coordinate v'											
				23000	24000	25000									
1300001078A6031C	D1		0.5205	0.5217	0.5219	0.5219									
	D2		0.5201	0.5212	0.5212	0.5214									
	D3		0.5204	0.5215	0.5217	0.5218									
	D4		0.5204	0.5218	0.5220	0.5220									
	D5		0.5191	0.5204	0.5206	0.5206									
	D6		0.5205	0.5214	0.5215	0.5213									
	D7		0.5201	0.5209	0.5211	0.5211									
	D8		0.5186	0.5198	0.5200	0.5200									
	D9		0.5196	0.5209	0.5212	0.5212									
	D10		0.5196	0.5209	0.5211	0.5211									
	D11		0.5203	0.5215	0.5217	0.5217									
	D12		0.5200	0.5210	0.5212	0.5212									
DE00001081CE031C	D1		0.5162	0.5175	0.5176	0.5177									
	D2		0.5211	0.5222	0.5224	0.5224									
	D3		0.5206	0.5226	0.5227	0.5228									
	D4		0.5204	0.5225	0.5226	0.5227									
	D5		0.5195	0.5208	0.5209	0.5209									
	D6		0.5191	0.5208	0.5209	0.5210									
	D7		0.5200	0.5215	0.5216	0.5217									
	D8		0.5200	0.5215	0.5216	0.5217									
	D9		0.5181	0.5194	0.5195	0.5196									
	D10		0.5187	0.5198	0.5199	0.5200									
	D11		0.5167	0.5180	0.5182	0.5182									
	D12		0.5188	0.5201	0.5202	0.5203									
n				24	24	24									
mean				0.5208	0.5210	0.5210									
median				0.5210	0.5212	0.5212									
std. dev.				0.0012	0.0013	0.0012									
min				0.5175	0.5176	0.5177									
max				0.5226	0.5227	0.5228									

Test Condition 3 105 °C 1.050 A															
TABLE 4.5 - CHROMATICITY SHIFT RESULTS															GW CSSRM2.EM
Test Condition 3 105 °C 1.050 A															
Load board ID	Device number	Zero hour measurements			Photometric test drive current: 1.050 A Photometric test ambient temperature: 25 ± 2 °C Failures observed: none										
		u'	v'		Chromaticity shift ($\Delta u'v'$)										
					1000	2000	3000	4000	5000	6000	7000	8000	9000	10000	11000
1300001078A6031C	D1	0.2354	0.5205		0.0009	0.0011	0.0011	0.0012	0.0013	0.0013	0.0012	0.0014	0.0013	0.0014	0.0014
	D2	0.2339	0.5201		0.0009	0.0010	0.0011	0.0011	0.0012	0.0012	0.0012	0.0013	0.0013	0.0012	0.0013
	D3	0.2340	0.5204		0.0011	0.0012	0.0013	0.0014	0.0015	0.0015	0.0015	0.0016	0.0016	0.0016	0.0017
	D4	0.2332	0.5204		0.0010	0.0011	0.0011	0.0012	0.0012	0.0013	0.0013	0.0013	0.0014	0.0014	0.0014
	D5	0.2353	0.5191		0.0013	0.0014	0.0015	0.0016	0.0017	0.0017	0.0017	0.0018	0.0018	0.0018	0.0018
	D6	0.2349	0.5205		0.0010	0.0012	0.0013	0.0014	0.0014	0.0015	0.0015	0.0015	0.0015	0.0015	0.0016
	D7	0.2363	0.5201		0.0009	0.0010	0.0011	0.0011	0.0012	0.0012	0.0012	0.0013	0.0012	0.0013	0.0013
	D8	0.2338	0.5186		0.0010	0.0011	0.0011	0.0012	0.0013	0.0013	0.0013	0.0014	0.0014	0.0014	0.0014
	D9	0.2334	0.5196		0.0011	0.0012	0.0013	0.0014	0.0015	0.0015	0.0015	0.0015	0.0015	0.0016	0.0016
	D10	0.2354	0.5196		0.0009	0.0011	0.0011	0.0012	0.0013	0.0013	0.0013	0.0014	0.0014	0.0014	0.0014
	D11	0.2362	0.5203		0.0012	0.0013	0.0014	0.0015	0.0016	0.0016	0.0016	0.0017	0.0016	0.0016	0.0017
	D12	0.2327	0.5200		0.0010	0.0011	0.0011	0.0012	0.0013	0.0013	0.0013	0.0014	0.0014	0.0014	0.0014
DE00001081CE031C	D1	0.2306	0.5162		0.0009	0.0010	0.0011	0.0012	0.0013	0.0013	0.0013	0.0013	0.0014	0.0013	0.0014
	D2	0.2336	0.5211		0.0010	0.0012	0.0012	0.0013	0.0014	0.0015	0.0014	0.0015	0.0015	0.0015	0.0015
	D3	0.2356	0.5206		0.0011	0.0013	0.0014	0.0015	0.0016	0.0017	0.0016	0.0017	0.0017	0.0017	0.0018
	D4	0.2359	0.5204		0.0010	0.0012	0.0013	0.0014	0.0015	0.0016	0.0016	0.0017	0.0017	0.0017	0.0018
	D5	0.2349	0.5195		0.0008	0.0009	0.0010	0.0010	0.0011	0.0012	0.0011	0.0012	0.0012	0.0012	0.0012
	D6	0.2330	0.5191		0.0009	0.0011	0.0012	0.0012	0.0013	0.0014	0.0014	0.0014	0.0014	0.0015	0.0015
	D7	0.2357	0.5200		0.0011	0.0012	0.0013	0.0014	0.0015	0.0015	0.0015	0.0016	0.0016	0.0016	0.0016
	D8	0.2337	0.5200		0.0011	0.0011	0.0012	0.0013	0.0014	0.0014	0.0014	0.0015	0.0015	0.0015	0.0015
	D9	0.2321	0.5181		0.0011	0.0013	0.0014	0.0014	0.0015	0.0016	0.0016	0.0016	0.0016	0.0017	0.0017
	D10	0.2321	0.5187		0.0011	0.0012	0.0013	0.0013	0.0014	0.0015	0.0014	0.0014	0.0015	0.0015	0.0015
	D11	0.2311	0.5167		0.0010	0.0011	0.0012	0.0013	0.0014	0.0015	0.0014	0.0014	0.0015	0.0015	0.0015
	D12	0.2351	0.5188		0.0009	0.0010	0.0011	0.0011	0.0012	0.0013	0.0013	0.0013	0.0013	0.0013	0.0014
n					24	24	24	24	24	24	24	24	24	24	24
mean					0.0010	0.0011	0.0012	0.0013	0.0014	0.0014	0.0014	0.0015	0.0015	0.0015	0.0015
median					0.0010	0.0011	0.0012	0.0013	0.0014	0.0014	0.0014	0.0014	0.0015	0.0015	0.0015
std. dev.					0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0002	0.0002	0.0002
min					0.0008	0.0009	0.0010	0.0010	0.0011	0.0012	0.0011	0.0012	0.0012	0.0012	0.0012
max					0.0013	0.0014	0.0015	0.0016	0.0017	0.0017	0.0017	0.0018	0.0018	0.0018	0.0018

Test Condition 3 105 °C 1.050 A															
TABLE 4.5 - CHROMATICITY SHIFT RESULTS															
Test Condition 3 105 °C 1.050 A															
Load board ID	Device number	Zero hour measurements			Photometric test drive current: 1.050 A Photometric test ambient temperature: 25 ± 2 °C Failures observed: none										
		u'	v'		Chromaticity shift ($\Delta u'v'$)										
					12000	13000	14000	15000	16000	17000	18000	19000	20000	21000	22000
1300001078A6031C	D1	0.2354	0.5205		0.0014	0.0014	0.0015	0.0015	0.0016	0.0016	0.0017	0.0016	0.0017	0.0018	0.0018
	D2	0.2339	0.5201		0.0013	0.0013	0.0013	0.0014	0.0014	0.0015	0.0015	0.0014	0.0015	0.0016	0.0016
	D3	0.2340	0.5204		0.0016	0.0017	0.0017	0.0018	0.0018	0.0019	0.0019	0.0019	0.0019	0.0021	0.0021
	D4	0.2332	0.5204		0.0014	0.0015	0.0015	0.0015	0.0016	0.0017	0.0017	0.0017	0.0018	0.0019	0.0019
	D5	0.2353	0.5191		0.0018	0.0019	0.0019	0.0020	0.0020	0.0020	0.0021	0.0020	0.0021	0.0022	0.0023
	D6	0.2349	0.5205		0.0016	0.0016	0.0017	0.0017	0.0017	0.0018	0.0018	0.0018	0.0018	0.0020	0.0019
	D7	0.2363	0.5201		0.0013	0.0013	0.0013	0.0013	0.0013	0.0014	0.0014	0.0014	0.0014	0.0014	0.0015
	D8	0.2338	0.5186		0.0015	0.0015	0.0016	0.0015	0.0016	0.0017	0.0017	0.0017	0.0017	0.0018	0.0019
	D9	0.2334	0.5196		0.0016	0.0017	0.0017	0.0017	0.0018	0.0019	0.0020	0.0019	0.0020	0.0021	0.0021
	D10	0.2354	0.5196		0.0014	0.0015	0.0015	0.0016	0.0016	0.0017	0.0017	0.0017	0.0018	0.0019	0.0019
	D11	0.2362	0.5203		0.0018	0.0018	0.0018	0.0018	0.0018	0.0019	0.0019	0.0019	0.0019	0.0020	0.0021
	D12	0.2327	0.5200		0.0015	0.0015	0.0015	0.0015	0.0015	0.0016	0.0016	0.0016	0.0017	0.0017	0.0018
DE00001081CE031C	D1	0.2306	0.5162		0.0014	0.0014	0.0015	0.0015	0.0015	0.0016	0.0016	0.0017	0.0017	0.0018	0.0018
	D2	0.2336	0.5211		0.0015	0.0015	0.0016	0.0016	0.0016	0.0016	0.0017	0.0018	0.0017	0.0018	0.0019
	D3	0.2356	0.5206		0.0018	0.0019	0.0019	0.0020	0.0020	0.0020	0.0021	0.0022	0.0022	0.0023	0.0024
	D4	0.2359	0.5204		0.0018	0.0018	0.0019	0.0020	0.0020	0.0021	0.0021	0.0022	0.0023	0.0023	0.0024
	D5	0.2349	0.5195		0.0013	0.0013	0.0014	0.0015	0.0015	0.0015	0.0016	0.0016	0.0016	0.0017	0.0018
	D6	0.2330	0.5191		0.0015	0.0016	0.0016	0.0017	0.0017	0.0018	0.0018	0.0019	0.0019	0.0020	0.0021
	D7	0.2357	0.5200		0.0017	0.0017	0.0018	0.0018	0.0019	0.0019	0.0019	0.0020	0.0020	0.0020	0.0021
	D8	0.2337	0.5200		0.0016	0.0016	0.0017	0.0017	0.0017	0.0017	0.0018	0.0019	0.0019	0.0020	0.0020
	D9	0.2321	0.5181		0.0017	0.0017	0.0018	0.0019	0.0019	0.0019	0.0020	0.0020	0.0020	0.0020	0.0021
	D10	0.2321	0.5187		0.0015	0.0015	0.0016	0.0016	0.0016	0.0017	0.0017	0.0017	0.0017	0.0017	0.0018
	D11	0.2311	0.5167		0.0016	0.0016	0.0016	0.0017	0.0017	0.0017	0.0018	0.0019	0.0019	0.0020	0.0020
	D12	0.2351	0.5188		0.0014	0.0014	0.0015	0.0015	0.0016	0.0015	0.0016	0.0016	0.0017	0.0017	0.0018
n					24	24	24	24	24	24	24	24	24	24	24
mean					0.0016	0.0016	0.0016	0.0017	0.0017	0.0017	0.0018	0.0018	0.0018	0.0019	0.0020
median					0.0015	0.0016	0.0016	0.0017	0.0017	0.0017	0.0018	0.0018	0.0018	0.0019	0.0019
std. dev.					0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002
min					0.0013	0.0013	0.0013	0.0013	0.0013	0.0014	0.0014	0.0014	0.0014	0.0014	0.0015
max					0.0018	0.0019	0.0019	0.0020	0.0020	0.0021	0.0021	0.0022	0.0023	0.0023	0.0024

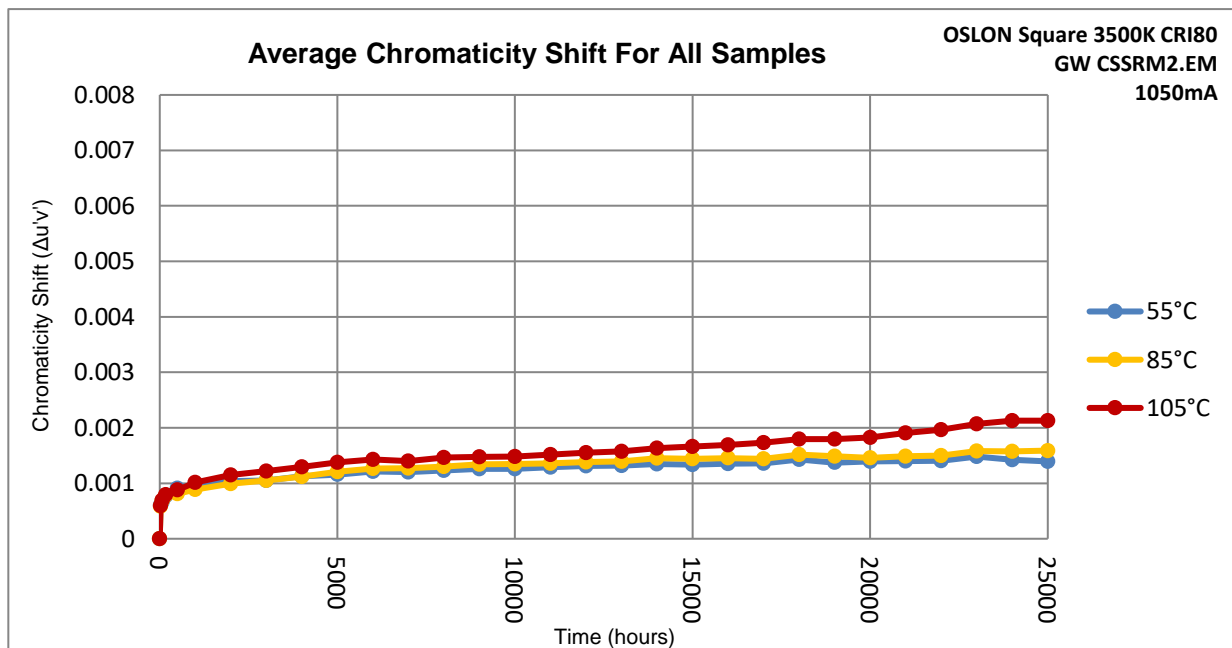
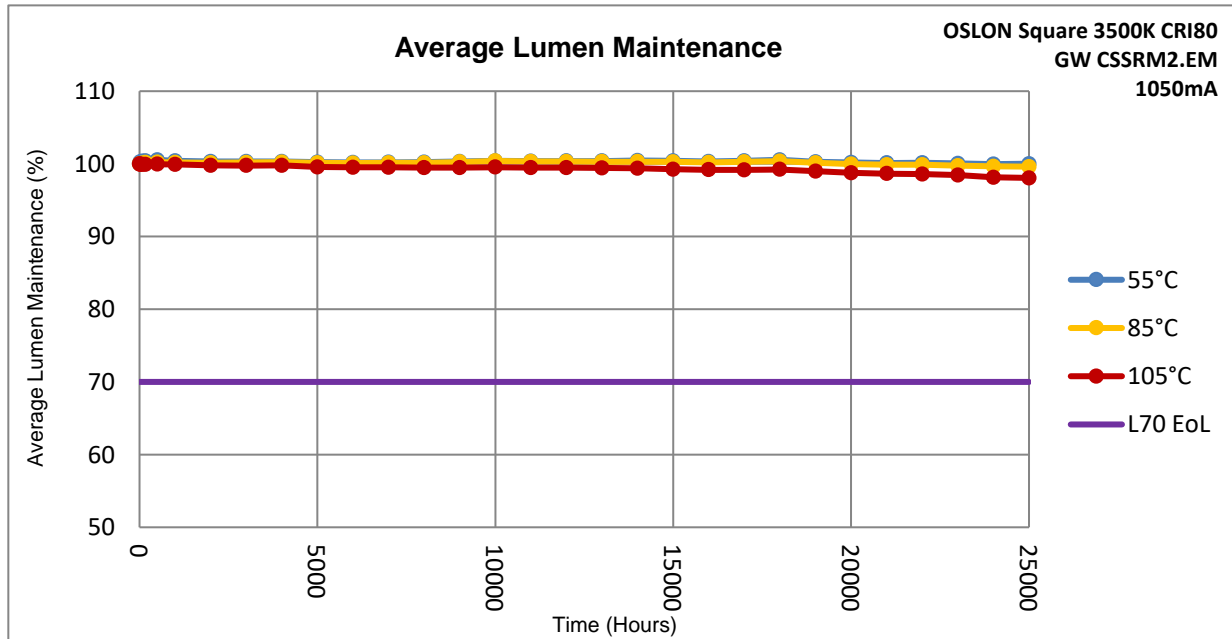
Test Condition 3 105 °C 1.050 A															
TABLE 4.5 - CHROMATICITY SHIFT RESULTS												GW CSSRM2.EM			
Test Condition 3 105 °C 1.050 A															
Load board ID	Device number	Zero hour measurements			Photometric test drive current: 1.050 A Photometric test ambient temperature: 25 ± 2 °C Failures observed: none										
		u'	v'		Chromaticity shift (Δu'v')										
					23000	24000	25000								
1300001078A6031C	D1	0.2354	0.5205		0.0019	0.0020	0.0020								
	D2	0.2339	0.5201		0.0017	0.0017	0.0018								
	D3	0.2340	0.5204		0.0021	0.0022	0.0022								
	D4	0.2332	0.5204		0.0020	0.0021	0.0021								
	D5	0.2353	0.5191		0.0024	0.0024	0.0024								
	D6	0.2349	0.5205		0.0021	0.0020	0.0019								
	D7	0.2363	0.5201		0.0016	0.0017	0.0016								
	D8	0.2338	0.5186		0.0020	0.0021	0.0020								
	D9	0.2334	0.5196		0.0022	0.0024	0.0023								
	D10	0.2354	0.5196		0.0020	0.0021	0.0021								
	D11	0.2362	0.5203		0.0021	0.0022	0.0022								
	D12	0.2327	0.5200		0.0018	0.0020	0.0019								
DE00001081CE031C	D1	0.2306	0.5162		0.0020	0.0020	0.0020								
	D2	0.2336	0.5211		0.0020	0.0020	0.0020								
	D3	0.2356	0.5206		0.0025	0.0026	0.0026								
	D4	0.2359	0.5204		0.0026	0.0026	0.0027								
	D5	0.2349	0.5195		0.0019	0.0019	0.0019								
	D6	0.2330	0.5191		0.0022	0.0022	0.0023								
	D7	0.2357	0.5200		0.0022	0.0023	0.0023								
	D8	0.2337	0.5200		0.0022	0.0022	0.0022								
	D9	0.2321	0.5181		0.0022	0.0023	0.0023								
	D10	0.2321	0.5187		0.0019	0.0019	0.0020								
	D11	0.2311	0.5167		0.0021	0.0022	0.0022								
	D12	0.2351	0.5188		0.0019	0.0020	0.0020								
n					24	24	24								
mean					0.0021	0.0021	0.0021								
median					0.0021	0.0021	0.0021								
std. dev.					0.0002	0.0002	0.0003								
min					0.0016	0.0017	0.0016								
max					0.0026	0.0026	0.0027								

Test Condition 3				105 °C		1.050 A								
TABLE 4.6 - FORWARD VOLTAGE MAINTENANCE RESULTS													GW CSSRM2.EM	
Test Condition 3				105 °C		1.050 A								
Load board ID	Device number	Zero hour measurements		Photometric test drive current: 1.050 A Photometric test ambient temperature: 25 ± 2 °C Failures observed: none										
		Vf (V)	Forward Voltage Maintainence (%)											
			1000	2000	3000	4000	5000	6000	7000	8000	9000	10000	11000	
1300001078A6031C	D1		3.35	99.42	99.24	99.23	99.65	99.24	99.10	99.67	98.99	99.75	99.42	99.10
	D2		3.41	100.49	99.54	99.88	99.46	100.65	100.68	99.80	99.25	101.62	101.07	99.40
	D3		3.47	99.64	98.85	99.42	98.99	99.94	100.46	99.31	99.11	101.30	101.13	99.27
	D4		3.53	97.96	97.56	97.92	97.86	97.77	98.01	98.02	97.65	98.30	97.84	97.64
	D5		3.53	99.34	98.86	99.12	99.69	99.18	99.21	99.42	99.27	99.46	99.18	99.28
	D6		3.54	99.29	98.95	99.24	99.83	99.24	99.41	99.53	99.29	100.36	100.17	99.59
	D7		3.46	99.38	99.31	99.43	99.24	99.20	99.61	100.00	99.03	100.25	100.44	99.60
	D8		3.60	97.61	97.87	97.40	97.39	97.66	97.89	98.11	97.35	97.93	98.18	97.88
	D9		3.64	97.55	97.71	97.47	97.65	97.61	97.66	97.46	97.39	97.82	98.06	97.70
	D10		3.56	98.35	98.30	98.38	98.31	98.14	98.17	98.26	98.28	98.31	98.64	98.63
	D11		3.62	98.51	97.49	97.18	97.38	97.53	97.07	97.35	97.14	97.43	97.49	98.03
	D12		3.58	99.37	98.02	98.12	97.96	98.28	97.43	97.58	97.38	97.71	97.96	98.37
DE00001081CE031C	D1		3.37	101.72	98.76	98.36	100.54	98.94	98.19	98.58	98.52	99.18	100.12	100.04
	D2		3.46	102.90	98.44	98.49	98.59	98.62	98.04	98.60	98.83	101.17	100.63	100.30
	D3		3.68	100.10	96.97	97.32	97.30	96.91	96.93	97.46	99.00	102.29	98.81	99.31
	D4		3.62	97.71	97.71	97.18	96.79	96.75	96.73	97.13	99.10	99.67	96.94	98.09
	D5		3.53	100.61	100.03	99.10	99.47	99.76	99.11	101.13	102.27	101.35	99.58	99.92
	D6		3.65	98.50	97.37	97.14	97.49	97.63	97.07	98.88	99.50	99.47	97.92	97.20
	D7		3.50	98.43	98.74	98.92	98.82	98.97	98.80	98.87	99.48	99.15	99.60	99.08
	D8		3.56	97.87	97.63	97.67	97.54	97.87	97.22	97.28	97.58	97.45	97.48	98.89
	D9		3.64	98.42	98.26	98.58	98.73	98.46	98.20	97.86	98.04	98.62	98.51	99.99
	D10		3.55	99.09	100.34	100.00	99.89	99.07	99.27	100.32	99.14	100.06	99.44	99.44
	D11		3.58	99.57	99.72	99.37	98.67	99.13	98.40	101.53	99.58	99.43	99.23	99.65
	D12		3.56	99.64	98.27	98.58	99.55	99.78	98.06	99.54	98.92	98.27	99.37	99.77
n				24	24	24	24	24	24	24	24	24	24	24
mean				99.2	98.5	98.5	98.6	98.6	98.4	98.8	98.8	99.4	99.1	99.0
median				99.3	98.4	98.5	98.7	98.8	98.2	98.7	99.0	99.4	99.2	99.3
std. dev.				1.3	0.9	0.9	1.0	1.0	1.1	1.2	1.1	1.4	1.2	0.9
min				97.5	97.0	97.1	96.8	96.8	96.7	97.1	97.1	97.4	96.9	97.2
max				102.9	100.3	100.0	100.5	100.7	100.7	101.5	102.3	102.3	101.1	100.3

Test Condition 3				105 °C		1.050 A								
TABLE 4.6 - FORWARD VOLTAGE MAINTENANCE RESULTS													GW CSSRM2.EM	
Test Condition 3				105 °C		1.050 A								
Load board ID	Device number	Zero hour measurements		Photometric test drive current: 1.050 A Photometric test ambient temperature: 25 ± 2 °C Failures observed: none										
		Vf (V)	Forward Voltage Maintainence (%)											
			12000	13000	14000	15000	16000	17000	18000	19000	20000	21000	22000	
1300001078A6031C	D1		3.35	100.30	99.94	101.22	100.29	99.83	99.06	99.44	99.67	99.91	100.15	107.45
	D2		3.41	102.13	99.85	101.21	101.67	101.76	99.57	102.18	102.40	102.10	102.83	101.88
	D3		3.47	101.33	98.97	100.94	102.40	100.84	99.22	101.58	102.09	101.57	102.23	102.63
	D4		3.53	98.35	98.11	98.01	99.14	97.85	97.33	97.59	97.83	97.96	98.26	99.46
	D5		3.53	99.60	99.89	99.16	99.64	100.33	99.12	99.75	100.08	99.99	100.10	99.66
	D6		3.54	100.92	99.46	99.31	99.81	100.98	99.44	99.97	101.17	107.14	100.53	100.24
	D7		3.46	100.85	99.09	99.23	99.30	100.42	99.07	99.28	100.60	106.42	100.99	100.51
	D8		3.60	98.40	98.28	98.09	98.45	98.85	98.83	99.65	98.66	101.53	99.52	100.93
	D9		3.64	98.44	98.16	97.70	99.06	98.17	98.45	99.45	98.09	100.93	98.75	100.67
	D10		3.56	99.04	98.38	98.38	99.48	98.30	98.12	98.50	98.45	98.91	98.56	98.97
	D11		3.62	98.42	97.25	97.39	98.28	97.78	97.41	97.87	98.15	98.93	97.43	98.07
	D12		3.58	99.22	97.60	97.58	99.93	98.51	97.56	99.17	98.53	98.85	97.71	98.31
DE00001081CE031C	D1		3.37	99.22	99.56	100.33	102.93	99.05	98.38	98.80	101.20	98.26	101.06	102.83
	D2		3.46	106.37	99.02	99.08	99.69	98.83	98.04	98.45	104.00	98.06	99.71	103.88
	D3		3.68	106.06	98.86	98.83	98.63	97.38	97.61	97.38	103.93	97.37	97.92	101.75
	D4		3.62	98.92	100.03	97.70	97.14	96.82	97.32	96.28	107.24	96.98	97.14	98.33
	D5		3.53	101.13	101.45	100.41	101.80	100.58	104.57	99.56	107.10	100.77	100.89	105.99
	D6		3.65	98.00	98.24	98.81	101.42	98.43	102.06	98.21	98.69	99.39	98.96	102.73
	D7		3.50	99.30	99.43	99.06	101.47	99.18	99.41	99.44	104.72	100.38	99.87	99.59
	D8		3.56	97.37	97.48	97.22	98.57	97.49	97.31	103.15	103.35	98.14	98.53	98.22
	D9		3.64	98.19	98.13	97.96	98.86	98.12	98.05	103.70	99.77	98.70	99.45	99.41
	D10		3.55	99.34	98.91	98.79	100.13	98.77	99.09	98.68	100.21	99.17	99.77	99.51
	D11		3.58	101.21	99.11	98.48	100.34	99.68	99.05	98.59	99.78	99.50	99.86	99.17
	D12		3.56	100.43	98.36	97.79	99.52	98.91	98.35	98.03	98.89	98.66	99.17	99.08
n				24	24	24	24	24	24	24	24	24	24	24
mean				100.1	98.9	98.9	99.9	99.0	98.9	99.4	101.0	100.0	99.6	100.8
median				99.3	98.9	98.8	99.7	98.8	98.6	99.2	100.1	99.3	99.6	99.9
std. dev.				2.3	1.0	1.2	1.4	1.3	1.6	1.8	2.8	2.5	1.4	2.4
min				97.4	97.2	97.2	97.1	96.8	97.3	96.3	97.8	97.0	97.1	98.1
max				106.4	101.4	101.2	102.9	101.8	104.6	103.7	107.2	107.1	102.8	107.5

Test Condition 3				105 °C	1.050 A										
TABLE 4.6 - FORWARD VOLTAGE MAINTENANCE RESULTS															GW CSSRM2.EM
Test Condition 3				105 °C	1.050 A										
Load board ID	Device number	Zero hour measurements		Photometric test drive current: 1.050 A Photometric test ambient temperature: 25 ± 2 °C Failures observed: none											
		Vf (V)	Forward Voltage Maintainence (%)												
			23000	24000	25000										
1300001078A6031C	D1		3.35	101.20	103.12	100.94									
	D2		3.41	101.88	101.82	101.91									
	D3		3.47	104.64	101.98	101.73									
	D4		3.53	100.98	99.33	99.03									
	D5		3.53	100.27	99.63	101.36									
	D6		3.54	101.72	100.22	101.60									
	D7		3.46	101.51	100.57	104.96									
	D8		3.60	102.13	98.75	104.01									
	D9		3.64	101.21	98.30	100.61									
	D10		3.56	98.54	98.42	98.94									
	D11		3.62	101.06	97.66	98.02									
	D12		3.58	101.79	97.93	98.36									
DE00001081CE031C	D1		3.37	107.54	101.38	107.92									
	D2		3.46	100.07	100.96	99.20									
	D3		3.68	99.61	98.45	98.23									
	D4		3.62	97.90	98.25	99.19									
	D5		3.53	103.21	105.62	108.45									
	D6		3.65	101.11	104.44	103.85									
	D7		3.50	99.45	102.20	101.06									
	D8		3.56	97.74	99.00	100.24									
	D9		3.64	99.60	99.40	101.23									
	D10		3.55	100.03	99.15	99.83									
	D11		3.58	99.37	99.59	100.33									
	D12		3.56	99.23	99.89	101.03									
n				24	24	24									
mean				100.9	100.3	101.3									
median				101.0	99.6	101.0									
std. dev.				2.1	2.1	2.8									
min				97.7	97.7	98.0									
max				107.5	105.6	108.4									

5.0 Charts:



6.0 Additional Information

6.1 Auxiliary Equipment

Lifetest thermal chamber:	Orb Optronix Thermal Platform - resistive heating, liquid cooling, no forced air flow
Lifetest current source:	Orb Optronix 12-Channel Driver
Photometric test current source:	Keithley 2425
Photometric test thermal control:	Orb Optronix TEC-100
Spectrometer:	Instrument Systems, CAS 140CT
Integrating Sphere:	Gamma Scientific 20"
Photometric reference standards:	LabSphere SCL-50

6.2 Additional Test Information

6.3 Photographs

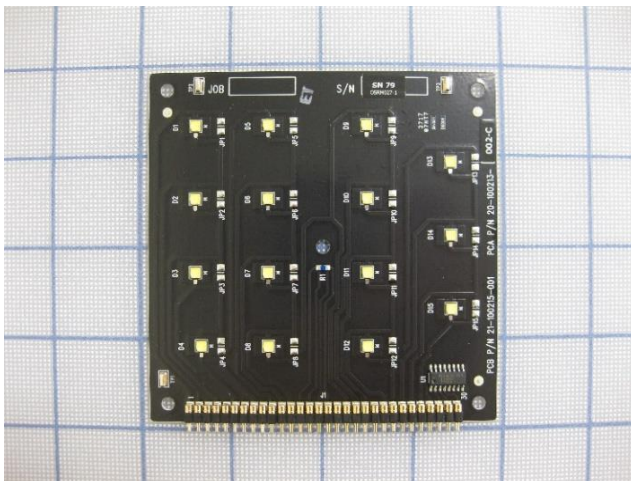


Fig. 1 OSRM027 load board example.

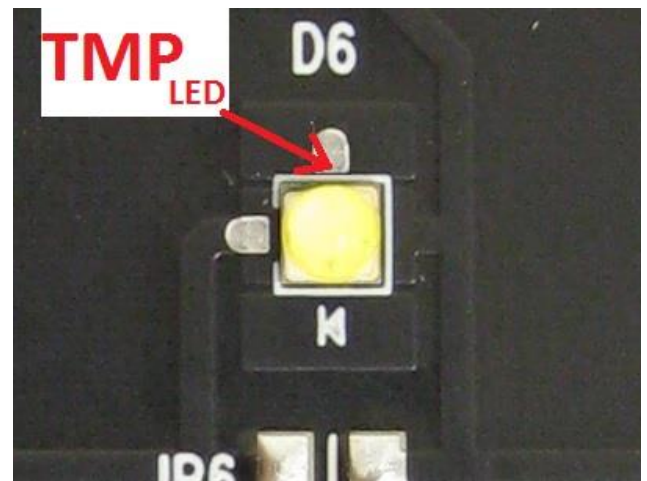


Fig. 2 OSRM027 OSLON Square white LED and temperature measurement point.

6.4 Dimensional Drawing*

* all dimension in millimeters

This report alone may not be used to claim product certification, approval or endorsement by NVLAP, NIST, or any agency of the Federal Government.

- END OF REPORT -

Appendix A: Energy Star® LM-80 Application

ENERGY STAR® LM-80 Cover Page

Administrative Information

Tested subcomponent series	OSLON® Square
Tested subcomponent model number	GW CSSRM2.EM
Report issue date	16 th Apr 2021
Report revision date (if applicable)	Not Applicable
Testing start date	10 th Nov 2017
Testing completion date	16 th Apr 2021
DUT sampling method	According to ANSI/IES LM-80 Test Method

DUT Identification

DUT manufacturer's name	OSRAM Opto Semiconductors (Malaysia) Sdn Bhd
DUT identification	GW CSSRM2.EM
Description of DUT	LED Package

DUT Characteristics

Total input power (W)	3.72
Average current density per LED die (mA/mm ²)	525.00
Average power density per LED Package (W/mm ²)	0.41
Representative CRI (Ra) of the tested sample set	80
Minimum die edge to die edge spacing	Not Applicable

Appendix B: Lumen Maintenance Projection (IES TM-21-11)

For Information Only!

1. General Information

Description of LED light source tested	OSLON® Square GW CSSRM2.EM
Sample size per temperature	24
LED drive current used in the test	1050 mA
Current per die	1050 mA
Test duration	25,000 hours
Test duration used for projection	12,000 hours to 25,000 hours

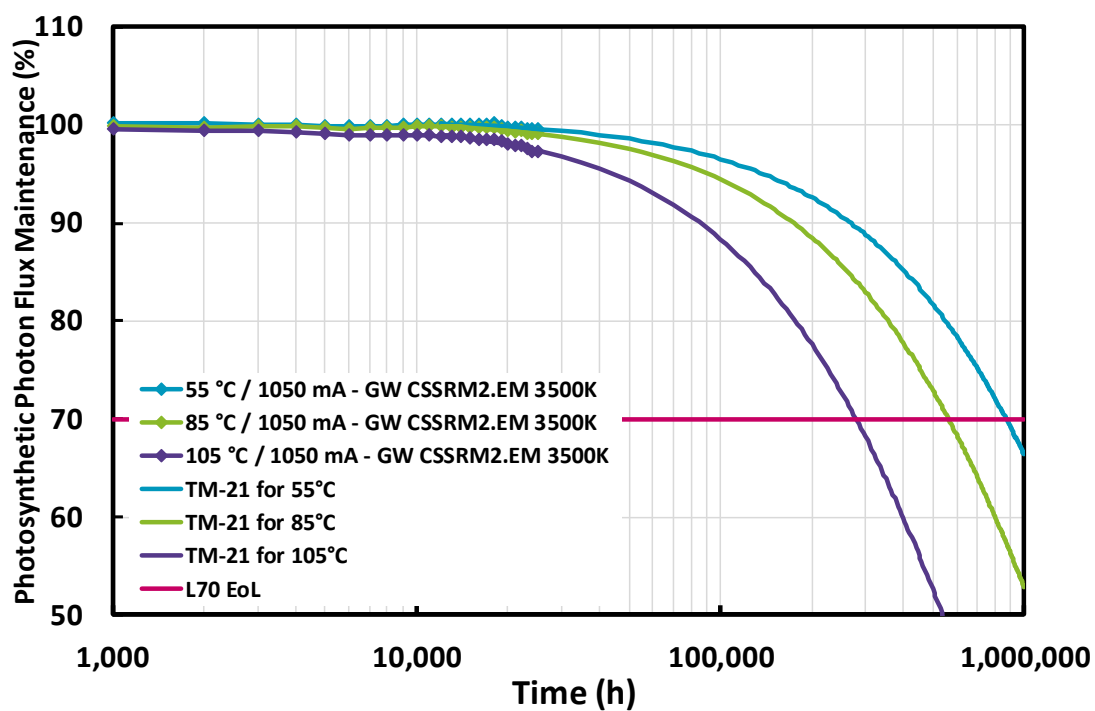
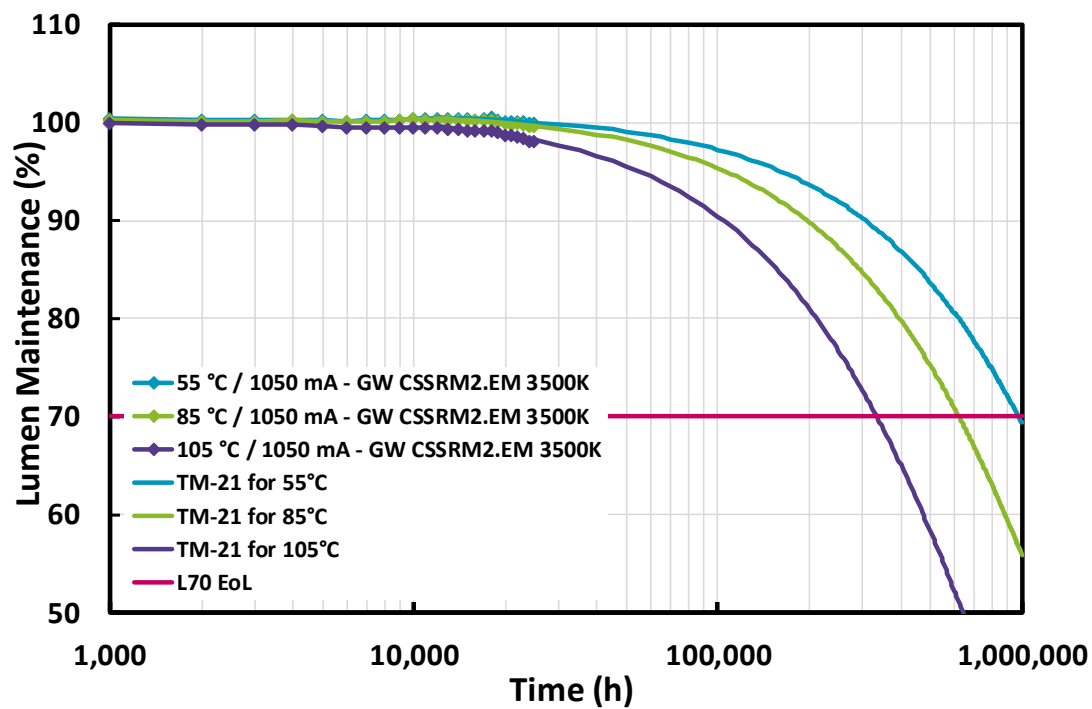
2. Projection Data (Lumen Maintenance)

	I	II	III
Case temperature (solder point)	$T_s = 55\text{ °C}$	$T_s = 85\text{ °C}$	$T_s = 105\text{ °C}$
α	3.754E-07	5.930E-07	1.099E-06
B	1.010E+00	1.012E+00	1.009E+00
Reported L70	> 150,000 hours	> 150,000 hours	> 150,000 hours
Reported L80	> 150,000 hours	> 150,000 hours	> 150,000 hours
Reported L90	> 150,000 hours	> 150,000 hours	104,504 hours

2b. Projection Data (Photosynthetic Photon Flux Maintenance)

	I	II	III
Case temperature (solder point)	$T_s = 55\text{ °C}$	$T_s = 85\text{ °C}$	$T_s = 105\text{ °C}$
α	4.166E-07	6.464E-07	1.296E-06
B	1.006E+00	1.007E+00	1.006E+00
Reported Q_{90}	> 150,000 hours	> 150,000 hours	85,752 hours

3. Graphic chart



Appendix C: Additional Models Covered By Testing

The 28 September 2017 *ENERGY STAR® Requirements for the Use of LM-80 Data* defines conditions for which a LM-80 report is applied to cover models that have not been directly tested.

The test results in this report applies to the following list of models:

- OSOLON® Square GW CSSRM2.EM with CCT 2700 K – 6500 K
- OSOLON® Square GW CSSRM2.PM with CCT 2700 K – 6500 K
- OSOLON® Square GW CSSRM3.PM with CCT 2700 K – 6500 K
- OSOLON® Square GW CSSRM2.CM with CCT 2700 K – 6500 K
- OSOLON® Square GW CSSRM3.EM with CCT 2700 K – 6500 K
- OSOLON® Square GW CSSRMU.CM with CCT 2700 K – 4000 K

Disclaimer

Please carefully read the below terms and conditions before using the Information.
If you do not agree with any of these terms and conditions, do not use the Information.

The Information contained in this document does not constitute an independent warranty. The committed behavior is described in the Product data sheet.

Further explanations:

Data: The Data used in this Document consider the reliability test results under the mentioned driving conditions only. For Product information on the maximum operating conditions please refer to the Product data sheet or contact your local sales partner.

Conditions: The conditions for the generation of the data are as follows:

1. The Data and curves shown in this Document are based on experiments carried out under laboratory conditions on a random sample size of LED with readouts at discrete readout times (where applicable). Thus, the Data above represent a limited number of production lots only and may differ between different assembly lots over time (including chip or package changes). Thus, the behavior of the LED in the final application may differ from the Data. The behavior of the LED at conditions or readout times deviating from those stated above may not be deduced from the Data.
2. For long term operation additional failure modes of the chip or package can occur which are not shown in this Document.
3. Possible differences in the thermal management of OSRAM OS and customer's setup may lead to a different aging behavior.
4. The lifetime projection data presented in this Document has been evaluated in accordance with the lifetime extrapolation method described and defined in IES TM-21-11. The lifetime projection is based on the Data shown in this Document. The Data had been collected and assembled according to IES LM-80-15.

END OF DOCUMENT

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