

**PCN: V16-001-SD495102-0A**

## Product Change Notice

**Issue Date: 16th August 2016**

**Change Type:**

New replacement phosphor for the part numbers listed below.

**Parts Affected:**

ASMT-MW04-NLN00	ASMT-MW06-NLMS0	ASMT-MW62-NGJ00	ASMT-MWB6-NMNW0
ASMT-MW04-NLN01	ASMT-MW06-NLMW0	ASMT-MW62-NGJ01	ASMT-MWE2-NNP00
ASMT-MW04-NMN00	ASMT-MW06-NMN00	ASMT-MW62-NGJR1	QSMT-MW11-NKM01
ASMT-MW04-NMN01	ASMT-MW06-NMN01	ASMT-MW62-NGJW0	QSMT-MW11-NLM01
ASMT-MW04-NMNZ0	ASMT-MW06-NMNS0	ASMT-MW62-NHK00	QSMT-MW11-NMNJ1
ASMT-MW05-NMMS0	ASMT-MW06-NMNW0	ASMT-MWB4-NMN00	QSMT-MW12-NLMJ1
ASMT-MW05-NMNS0	ASMT-MW06-NMNZ1	ASMT-MWB4-NMN01	
ASMT-MW06-NLM01	ASMT-MW22-NNP00	ASMT-MWB6-NMN00	

**Description and Extent of Change:**

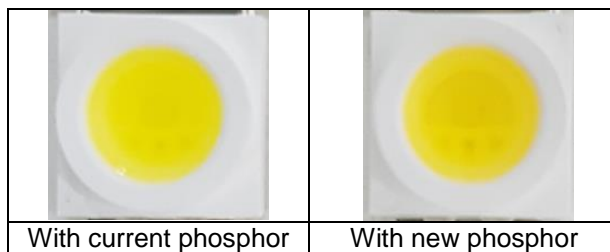
The new phosphor shall be replacing current phosphor for all the part numbers above. There will be a change in the form (appearance) but no change in product fit and function.

**Reasons for Change:**

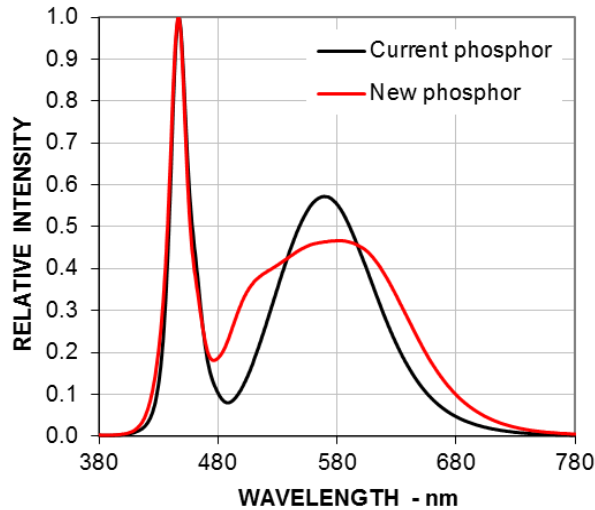
Obsolescence of current phosphor and product performance improvement.

**Effect of Change on Fit, Form, Function, Quality, or Reliability:**

There is no change in the fit and function. There is a slight phosphor color tone difference as illustrated below.



The color spectrum is different between the new phosphor and current phosphor as illustrated below.



The Color Rendering Index (CRI) for product using new phosphor will improve as shown in the table below.

<b>Color Rendering Index (CRI) current phosphor</b>	<b>Color Rendering Index (CRI) new phosphor</b>
<b>63 (typical)</b>	<b>85 (typical)</b>

**Effective Date of Change:**

Broadcom Limited will begin to ship these part numbers with new replacement phosphor effective from 16<sup>th</sup> September 2016 onwards. There will be mixed shipment between either phosphor until the current phosphor is fully depleted. As the appearance and Color Rendering Index (CRI) of the new phosphor is different from the current phosphor, customer is advised not to mix product using new phosphor with product using current phosphor.

**Qualification Data:**

The parts have been submitted to reliability tests and passed Broadcom Limited reliability conditions up to the test point stated in table below:-

Test Name	Test Condition	Units tested	Result
Temperature Cycle	-40°C /120°C, 30 min dwell, 5 min transfer, 100 cycles	120	Passed
High Temperature Operating Life	T <sub>hs</sub> =87°C , If=700mA, 1000hrs	80	Passed
Temperature Humidity Storage Life	T <sub>hs</sub> = 60°C RH = 90%, 1000hrs	80	Passed
Temperature Humidity Operating Life	T <sub>hs</sub> = 60°C RH = 90%, If = 700mA, 1000hrs	80	Passed

These changes have been reviewed and approved by Broadcom Limited engineers and managers per Broadcom Limited procedure: Change Control and Customer Notification, 5962-6052-80.

Please contact your Broadcom Limited field sales for any questions or support requirements. Please return any response as soon as possible, but not to exceed 30 days.