



Date: March 14th, 2017

Description: Addition of manufacturing site for Luminus CBT-90-W and CBT-140-W series

Dear Customer:

You are receiving this letter due to an upcoming change in manufacturing affecting the CBT-90-W and CBT-140-W series that our records indicate you have purchased in the past 24 months.

The listed devices are currently assembled, tested and shipped by Luminus Contract Manufacturing (CM) partner in Taiwan. In order to accommodate increasing demand for these products, Luminus intends to leverage additional capacity in the Philippines plant of the same CM..

The site in the Philippines has been qualified by Luminus since 2012 and reliably manufacturing high volumes of similar Luminus products, assembled using same equipment, process, materials and procedures and staff trained in Taiwan.

There is no impact on the LED die manufacturing and only packaging, test and shipping operations are affected by the addition of the 2nd site. Devices form, fit, function, reliability or materials are not impacted.

As a result, **no specific technical action is needed or requested from customers. It should however be noted that the Country of Origin (COO) as marked on shipping documents indicate "The Philippines" for parts assembled in that site..**

1. Affected Products

Products series listed below are under the scope of this notification:

- CBT-90-W57S-C11 CBT-90-W65S-C11 CBT-90-WDLS-C11
- CBT-140-WCS-L16 CBT-140-WDH-L16

Please refer to the addendum of this document for a list of all ordering part numbers affected by this change. Active part number will not change as a result of the addition of the Philippines manufacturing site.

2. Purpose

- Leverage established offshore production capacity providing increased flexibility and scalability
- Provide manufacturing diversity for affected products

3. Scope of changes

Ordering Part Number	No change. Parts manufactured at the new location will ship against the same part number as current products.
Product Specification	No change in parametric or mechanical specifications.
LED chip production facility	No change. All LED die for listed products remain built in Xiamen, China
LED package assembly and test	Primary location changing from Taiwan to the Philippines.



PRODUCT CHANGE NOTIFICATION

	Both sites of the CM manufacturing partner have been producing the majority of Luminus Specialty LED products for over 4 years.
5M changes	<p>None.</p> <p>Man: staff in Philippines cross-trained in Taiwan and already manufacturing PT/CBT series in volume in volume</p> <p>Machine: same equipment replicated in both sites for each critical process step.</p> <p>Method: unchanged and already qualified in both sites</p> <p>Materials: unchanged</p> <p>Measurement: No change. Both Taiwan and Philippine locations use the same custom test equipment developed and whose calibration is maintained by Luminus staff</p>
Anticipated impact on Form, Fit, Function, Quality or Reliability (positive / negative):	None.
Environmental compliance & Materials	<p>Unchanged, same bill of material. As with all Luminus LED products, the CBT-90-W and CBT-140-W sourced from Luminus Asian CM partners is compliant with an extensive range of standards including:</p> <ul style="list-style-type: none"> - RoHS - REACH - Conflict Minerals (DRC – US Dodd Frank Act)
Country Of Origin (COO)	Will reflect the actual assembly location (Taiwan or The Philippines)
Shipping location	Same as assembly location except for sampling quantities (< 50) that will continue to ship from the U.S. Please contact Luminus customer service (cs@luminus.com) if revised shipping instructions are necessary for devices shipping from The Philippines.

4. Identification of products

Individual products from either manufacturing source cannot be visually distinguished. Product traceability via package serial numbers is maintained, allowing the identification the manufacturing site.

5. Schedule

As part of Luminus standard operating procedures, each product implementation is subject to thorough line verification and approval protocol and a report will be available upon request from April 15, 2017.

Customer samples built in the Philippines site will be available from April 10, 2017 for select bin kits and can be requested from your sales representative.

Products manufactured in the Philippines may start shipping from June 15, 2017..



PRODUCT CHANGE NOTIFICATION

Thank you for using Luminus LED products and please contact your local sales representative or Luminus Customer Service (cs@luminus.com) if you have questions regarding this notification.

Addendum

Ordering Part Numbers Affected			
*CBT-90-W57S-C11-MA200	*CBT-90-W65S-C11-MB100	CBT-140-WCS-L16-TB120	CBT-140-WDH-L16-QA220
*CBT-90-W57S-C11-MA201	*CBT-90-W65S-C11-MB101	CBT-140-WCS-L16-TB121	CBT-140-WDH-L16-QB220
*CBT-90-W57S-C11-MB200	*CBT-90-W65S-C11-MB102	CBT-140-WCS-L16-TB122	CBT-140-WDH-L16-RA220
*CBT-90-W57S-C11-MB201	*CBT-90-W65S-C11-MB105	CBT-140-WCS-L16-TB123	CBT-140-WDH-L16-RA520
CBT-90-W57S-C11-NA200	*CBT-90-W65S-C11-MB107	CBT-140-WCS-L16-UA120	CBT-140-WDH-L16-RB220
CBT-90-W57S-C11-NA201	*CBT-90-W65S-C11-MB110	CBT-140-WCS-L16-UA121	
CBT-90-W57S-C11-NB200	*CBT-90-W65S-C11-MB113	CBT-140-WCS-L16-UA122	
CBT-90-W57S-C11-NB201	*CBT-90-W65S-C11-MB116	CBT-140-WCS-L16-UA123	
CBT-90-W57S-C11-PA200	*CBT-90-W65S-C11-MB118	CBT-140-WCS-L16-UB120	
CBT-90-W57S-C11-PA201	CBT-90-W65S-C11-NA100	CBT-140-WCS-L16-UB121	
*CBT-90-W65S-C11-KB100	CBT-90-W65S-C11-NA101	CBT-140-WCS-L16-UB122	
*CBT-90-W65S-C11-KB101	CBT-90-W65S-C11-NA102	CBT-140-WCS-L16-UB123	
*CBT-90-W65S-C11-KB102	CBT-90-W65S-C11-NA105	CBT-140-WCS-L16-VA120	
*CBT-90-W65S-C11-KB105	CBT-90-W65S-C11-NA107	CBT-140-WCS-L16-VA121	
*CBT-90-W65S-C11-LA100	CBT-90-W65S-C11-NA108	CBT-140-WCS-L16-VA122	
*CBT-90-W65S-C11-LA101	CBT-90-W65S-C11-NA109	CBT-140-WCS-L16-VA123	
*CBT-90-W65S-C11-LA102	CBT-90-W65S-C11-NA110	CBT-140-WCS-L16-VB120	
*CBT-90-W65S-C11-LA105	CBT-90-W65S-C11-NA113	CBT-140-WCS-L16-VB121	
*CBT-90-W65S-C11-LA107	CBT-90-W65S-C11-NA116	CBT-140-WCS-L16-VB122	
*CBT-90-W65S-C11-LA116	CBT-90-W65S-C11-NA118	CBT-140-WCS-L16-VB123	
*CBT-90-W65S-C11-LB100	CBT-90-W65S-C11-NB100		
*CBT-90-W65S-C11-LB101	CBT-90-W65S-C11-NB101		
*CBT-90-W65S-C11-LB102	CBT-90-W65S-C11-NB102		
*CBT-90-W65S-C11-LB105	CBT-90-W65S-C11-NB105		
*CBT-90-W65S-C11-LB107	CBT-90-W65S-C11-NB106		
*CBT-90-W65S-C11-LB110	CBT-90-W65S-C11-NB107		
*CBT-90-W65S-C11-LB113	CBT-90-W65S-C11-NB110		
*CBT-90-W65S-C11-LB116	CBT-90-W65S-C11-NB113		
*CBT-90-W65S-C11-LB118	CBT-90-W65S-C11-NB116		
*CBT-90-W65S-C11-MA100	CBT-90-W65S-C11-NB118		
*CBT-90-W65S-C11-MA101	CBT-90-W65S-C11-NB552		
*CBT-90-W65S-C11-MA102	CBT-90-W65S-C11-PA100		
*CBT-90-W65S-C11-MA105	CBT-90-W65S-C11-PA101		
*CBT-90-W65S-C11-MA107	CBT-90-W65S-C11-PA102		
*CBT-90-W65S-C11-MA110	CBT-90-W65S-C11-PA105		



PRODUCT CHANGE NOTIFICATION

Ordering Part Numbers Affected (continued)			
*CBT-90-W65S-C11-MA113	CBT-90-W65S-C11-PA550		
*CBT-90-W65S-C11-MA116	CBT-90-WDLS-C11-MA150		
*CBT-90-W65S-C11-MA118	CBT-90-WDLS-C11-MB150		
	CBT-90-WDLS-C11-NA150		
	CBT-90-WDLS-C11-NB150		
	CBT-90-WDLS-C11-PA150		

* The asterisk indicates obsolete Ordering Part Numbers and customers should consider active part numbers for replacement.